

UNITED STATES OF AMERICA

Alabama — AL

University of Alabama, Birmingham

Cell Culture Center Department of Microbiology
Medical Center, Birmingham, AL 35294.
Tel: 205 934 2516

Supply cultures of bacteria, fungi and yeasts.

Auburn University

Dept of Entomology

301 Funchess Hall.
Tel: 205 844 5006 Fax: 205 844 5005

Carrying out research on the elucidation of *Bacillus thuringiensis* insecticidal toxins active against lepidoptera.

Avanti Polar Lipids Inc

700 Industrial Park Drive, Alabaster, AL 35007.
Tel: 205 663 2494/800 227 0651
Telex: 9102502652 avantipolar
Fax: 205 663 0756/800 229 1004

Manufacture phospholipids and liposomes reagents for research and pharmaceutical use.

Blocryst Pharmaceuticals Inc

2190 Parkway Lake Drive, Birmingham, AL 35244.
Tel: 205 444 4600 Fax: 205 444 4640

Designing and developing small molecule therapeutics for autoimmune and inflammatory diseases.

City of Florence

Natural Gas Department, PO Box 1023, Florence, AL 35631.
Tel: 205 767 3431

Recovering landfill gas (methane) from waste disposal sites and upgrading it using the patented 'Prism' membrane separation system developed by Monsanto Corporation, US.

Molecular Engineering Associates Inc

1025 18th St. South, Birmingham, AL 35233.
Tel: 205 930 9384

Carries out R&D on hybridomas, MAbs and virology. Produces antibodies for research uses and oral vaccines.

Research Genetics

2130 S Memorial Parkway, Huntsville, AL 35801.
Tel: 205 533 4363/800 533 4363
Fax: 205 536 9016

Offer custom DNA synthesis and purification services as well as DNA primers for use in the polymerase chain reaction with the Perkin Elmer-Cetus DNA amplification system. Can produce custom peptides, 6 to 18 residues in length; 5 to 15mg of crude peptide shipped within 10 days.

Secretech Inc

1025 18th St. South, Ste. 201, Birmingham, AL 35205.

Tel: 205 930 9384 Fax: 205 930 9388

Developing oral influenza vaccine via liposome, hybridoma and tissue culture technology.

Southern Biotechnology Associates Inc

160A Oxmoor Blvd, Birmingham, AL 35209.
Tel: 205 945 1774/800 722 2255

Telex: 593003 biotech Fax: 205 945 8768

Write to: PO Box 26221, Birmingham, AL 35226

Manufactures affinity purified antibodies and monoclonal antibodies for research applications including immunofluorescence and flow cytometry, ELISA, immunochemistry and blotting, screening kits for hybridomas and diagnostic reagents. Developing new products using cell culture and hybridomas including collagen and collagen antibodies, as well as offering custom conjugation antibody development.

Southern Research Institute

2000 Ninth Avenue South, Birmingham, AL 35205.
Tel: 800 967 6774 Fax: 205 581 2201

Offer a wide range of preclinical pharmaceutical product development services in areas including pharmaceutical formulation, contract manufacturing, development of anticancer and antiviral agents, pharmacokinetic studies, analytical method development/validation, toxicology, rationale drug design and synthesis, fermentation and cGMP clinical doses.

Taylor-Wharton Cryogenics

4075 Hamilton Blvd, Theodore, AL 36590.
Tel: 205 443 8680/800 428 3304
Fax: 205 443 2209

Market cryostorage refrigerators and dewars. Concerned with cryogenic gas containment for storing and pouring liquid nitrogen.

Arkansas — AR

University of Arkansas

Arkansas Biotechnology Center

Biomass Center, Farm, Fayetteville, AR 72701.
Tel: 501 575 2651/4648

Center includes the University Hybridoma Facility, the Biomass/Custom Fermentation Laboratories and the Biotech Clients of Genesis as well as the NorthWest Arkansas Business Incubator. Has developed and refined the process for converting cellulose to ethanol initiated by the Gulf Oil Corp, US. The process is based on the simultaneous hydrolysis of cellulose by enzymes from *Trichoderma reesei* and fermentation of sugars produced to ethanol using yeast.

IBS Inc

902 Watson Ave., Springdale, AR 72764.
Tel: 501 751 3881 Fax: 501 751 4616

Produce proteins and antibodies.

ImmunoVision Inc

1820 Ford Ave, Springdale, AR 72764.
Tel: 501 751 7005/800 541 0960
Fax: 501 751 7002

Produce antisera and immunoreagents including solid-phase absorbed antibodies as well as offering a custom protein purification service for autoimmune disease, blood proteins and animal tissues.

International Bio Sphere

PO Box 988, Springdale, AR 72764.
Tel: 501 751 3881/800 634 4281

Supply monoclonal and polyclonal antibodies as well as sera and equipment for tissue culture.

Pel-Freez Biologicals

219 N Arkansas, PO Box 68, Rogers, AR 72757.
Tel: 501 636 4361/800 643 3426
Telex: 910 240 3950 Fax: 501 636 4282

Supplies products to the medical diagnostics manufacturing industry through the Biologicals and Clinical Divisions and Novagen subsidiary. Biological products include rabbit brain acetone powder used in coagulation diagnostics and bulk intermediates: immunoserums, fractionated serum proteins, affinity purified antibodies and contract monoclonal antibodies. Production of bulk quantities of nucleic acids or expressed proteins is available under complete PLC control. Clinical Division manufactures HLA typing kits and reagents. Novagen Division manufactures molecular biology reagents and provides R&D services. Products include cloning vectors, a protein expression system, both staged and complete genomic DNA libraries in several species and an *in situ* hybridization kit.

Arizona — AZ

Analytical Technologies Inc

PO Box 36385, Tucson, AZ 85740.
Tel: 602 744 0012

Offer analytical services ranging from toxicological testing to trace organic and inorganic analyses for a wide range of materials including drinking water and the profiling of hazardous wastes through a network of environmental chemistry laboratories providing QA testing.

Arizona State University

Department of Zoology

Tempe.
Fax: 602 965 2012

Studying regulation of mRNA during development in *Drosophila*. Investigating structure and function of genes coding for alpha-amylase in *Drosophila*.

Arizona State University

Department of Chemistry and Biochemistry

Tempe.

Tel: 602 965 5020 Fax: 602 965 2747

Studying organization of chromatin on structural gene sequences in yeast.

University of Arizona

Department of Biochemistry

Tucson.

Tel: 602 621 1772

Investigating molecular biology of chloroplast ribosomes and site of synthesis of chloroplast ribosomal proteins.

University of Arizona

Department of Physics

Tucson.

Tel: 602 621 6800 Telex: 621 9222

Fax: 602 621 4721

Studying production of liquid fuels by growth of algae such as *Dunaliella*.

University of Arizona

Department of Plant Sciences

Tucson.

Isolating and characterizing mitochondrial DNA from sorghum and other monocotyledons with comparison of their structure using restriction endonuclease fragment analysis.

University of Arizona

Center for Separation Science

Building 10, Tucson, AZ 85721.

Tel: 602 621 4952

Offer services in contract electrophoresis.

University of Arizona

Biotechnology Division

Bio Sciences West, Room 364, Tucson, AZ 85721.

Tel: 602 621 5769/4064

Provide core instrumentation facilities and a foundation for promotion of the biotechnology industry in the state.

Bio-huma-netics

201 Roosevelt Ave, Chandler, AZ 85226.

Tel: 602 961 1220

Supply soil conditioners, feed supplements and waste treatment products.

Cytogam Inc

3498 N San Marcos Place, Chandler, AZ 85224.

Tel: 602 926 3412

Offer protein separation services.

FCS Laboratories Inc

2330 South Industrial Park Ave, Tempe, AZ 85282.

Tel: 602 966 7248/800 528 4401

Fax: 602 894 2638

Offer services in allergy testing and treatment including diagnostic tests and vaccines.

Human Biologics Inc

PO Box 50862, Phoenix, AZ 85076.

Tel: 602 893 8817 Fax: 602 893 8817

Provides well characterized human liver tissues for preclinical testing of pharmaceuticals. Products include human liver microsomes and various fractions. Developing MAbs to individual liver isozymes.

Insulated Shipping Containers Inc

5240 West Buckeye Rd, Phoenix, AZ 85043.

Tel: 602 484 9745 Fax: 602 484 0508

Design and manufacture insulated containers and protective packaging for temperature sensitive biomedical and pharmaceutical products. Offer package design and environmental testing and validation services.

Orthologic Corp

2850 36th St, 16, Phoenix, AZ 85034.

Tel: 602 437 5520 Fax: 602 437 5524

Developing technology for the stimulation of tissue repair and tissue engineering, including healing of bone fractures.

Protein Technologies Inc

1665 E 18th St, Suite 106, Tucson, AZ 85719.

Tel: 602 629 9626 Fax: 602 629 9806

Produce systems for free flow electrophoresis for preparative and large scale separations with flow rates from 10 microlitres to 1 litre per hour. Can be used for separation of cells, bacteria phages or viruses as well as biopolymers such as proteins, nucleic acids, enzymes and nucleotides. Also available with an optional computerized scanner which permits reproducible separations as well as setting parameters for optimal separation.

Spider Pharm

PO Box 339, Black Canyon City, AZ 85324.

Tel: 602 374 9419

Supplies spider venoms.

Vega Biotechnologies Inc

1250 East Aero Park Blvd, PO Box 11648, Tucson, AZ 85734.

Tel: 602 746 1401/800 528 4882

Telex: 165572 vegabio Fax: 602 889 4139

Manufactures a wide range of biologically active peptides on research and production scale, protected amino acids and nucleotides for peptide and DNA synthesis, polystyrene and CPG resins derivatized for peptide and DNA synthesis, and automated instruments for the synthesis of peptides and organic chemicals from research to production scale.

Vitron Corp

Tucson, AZ.

Produce human tissue slices, a manual tissue slicer and a tissue incubation system for use in vitro safety testing.

California — CA

AAB - Advanced American Biotechnology

1020 S Raymond Ave, Suite B, Fullerton, CA 92631.

Tel: 714 870 0290/7857/800 927 2290

Fax: 714 870 6385

Supply software and imaging equipment. Products include Windows, DOS and Mac compatible, 8, 12, 16 and 32 bit software for use in electrophoresis, DNA sequence reading, RFLP, Dots, ELISA, archiving, image analysis, chromosome analysis, karyotyping, colony counting, particle size analysis, chemoluminescence, antibiotic sensitivity, 3D graphics and 3D separation (HPLC, MW, IEP). Equipment available includes laser scanners, video densitometers, flatbed scanners, handheld scanners, photodocumentation systems and bone densitometers.

Aalto Scientific Ltd

1160 Joshua Way, Vista, CA 92083.

Tel: 619 598 0903 Fax: 619 598 0908

Supplies human serum, human isoenzymes, proteins, controls and calibrators.

Abaxis Inc

Sunnyvale, CA.

Developing a proprietary portable blood analyzer.

Abbeon Cal Inc

123 Gray Ave, Santa Barbara, CA 93101.

Tel: 805 966 0810/800 922 0977

Fax: 805 966 7659

Supply laboratory equipment including monitoring devices.

Acorn Group

47 Quail Court, Suite 301, Walnut Creek, CA 94596.

Tel: 415 934 1314 Fax: 415 934 8926

Offer consultancy services in regulatory procedures for FDA approval of new health care products.

Adeza Biomedical

1240 Elko Drive, Sunnyvale, CA 94089.

Tel: 408 745 0975 Fax: 408 745 0968

Develop, manufacture and market diagnostics and therapeutics for women's health.

Advanced Graphics Software Inc

5825 Avenida Encinas, Suite 105, Carlsbad, CA 92008-9690.

Tel: 800 795 4754 Fax: 619 931 9313

Market a presentation graphics program, SlideWrite Plus, for technical and scientific graphs and drawing etc.

Advanced Immunotherapeutics

2691 Richter Ave, Suite 105, Irvine, CA 92714-5124.

Tel: 714 756 2230 Fax: 714 756 8529

Developing therapeutics using recombinant DNA technology and cell and tissue culture.

Advanced Tissue Sciences Inc

10933 N Torrey Pines Rd, La Jolla, CA 92037.

Tel: 619 450 5730 Fax: 619 450 5703

Using tissue engineering technology for the development of therapeutics and in vitro cultured tissues for clinical trials and toxicity testing.

Advanced Tissue Services Inc

formerly Marrow-Tech Inc

10933 North Torrey Pines Rd, LA Jolla, CA 92037.

Tel: 619 450 5730 Fax: 619 450 5703

Main area of business is culture-grown natural human skin for transplantation and for burn treatment as well as toxicity testing and the development of methods of growing replacement bone marrow for transplantation.

Aeron Biotechnology Inc

1933 Davis St, Suite 310, San Leandro, CA 94577.

Tel: 415 729 0375 Fax: 415 729 0383

Using hybridoma, cell and tissue culture in the development of diagnostics. Products include diagnostics for breast cancer.

Part II California — CA UNITED STATES OF AMERICA

Aeronex Inc

10320 Camino Santa Fe, Suite A, San Diego, CA 92121.

Manufacture stainless steel Buchner funnels in a range of sizes.

Affymax Research Institute

4001 Miranda Ave, Palo Alto, CA 94304.
Tel: 415 496 2300 Fax: 415 424 0832

Developing therapeutics.

AgBioChem Inc

3 Fleetwood Court, Orinda, CA 94563.
Tel: 415 254 0789

Developing soil fertility products including mycorrhizal fungi by bulk fermentation.

Agouron Pharmaceuticals Inc

11025 N Torrey Pines Rd, Suite 120, La Jolla, CA 92037.

Tel: 619 535 5500

Using structure-based small molecule design to develop therapeutics for treatment of tumours, psoriasis, AIDS and breast, pancreatic and non-small-cell ovarian cancer.

Agri Sense

4230 W Swift, Suite 106, Fresno, CA 93722.
Tel: 209 276 4200

Developing speciality chemicals by fermentation and rDNA techniques. Products include pheromones and crop protection formulations.

Alacrity Marine Biological Services

PO Box 7000-358, Redondo Beach, CA 90277.
Tel: 213 372 4950

Supplies tissues and extracts from marine animals.

Alamar Biosciences Laboratory Inc

4110 N Freeway Blvd, Sacramento, CA 95834.
Tel: 916 567 3475 Fax: 916 567 3887

Developing diagnostics for clinical bacterial identification and susceptibility testing.

Alanex Ltd

3550 General Atomics Ct., San Diego, CA 92121.
Tel: 619 455 3200 Fax: 619 455 3201

Developing therapeutics and other products based on molecules that react with protein receptors. Products include an antagonist for neuropeptide Y for the treatment of cardiovascular diseases, hypertension and stroke. Also supply software for design of peptide-based therapeutics.

All Agricultural Enterprises

2918 Ahta Laguna, Laguna Beach, CA 92651.
Tel: 714 494 4959

Employing cell and tissue culture techniques for production of monocultures of pine trees and developing perennial crops for biofuels.

Allergy Immuno Technologies Inc

1527 Monrovia Ave, Newport Beach, CA 92663.
Tel: 714 645 3703 Fax: 714 722 6674

Developing diagnostics. Products include basophil histamine release, allergy detection, gastric ulcer diagnostics and Candida diagnostics kits.

Alliance Pharmaceutical Corp

3040 Science Park Rd, San Diego, CA 92121.
Tel: 619 558 4300

Developing novel drug products based on perfluorochemicals.

Allied Engineers Inc

2420 Camino Ramon, Suite 140, San Ramon, CA 94583.

Tel: 510 867 4646 Fax: 510 867 0736

Specialize in the planning, design and construction of wastewater reclamation systems.

Alpha Innotech Corp

14743 Catalina St, San Leandro, CA 94577.
Tel: 510 483 9620/800 795 5556

Fax: 510 483 3227

Supply digital imaging systems for instant photography, gel documentation and image analysis.

Alpha Therapeutic Corp

5555 Valley Boulevard, Los Angeles, CA 90032.
Tel: 213 225 2221/800 421 0008

Telex: 4997369 Fax: 213 223 9228

Produces a range of therapeutic substances, blood proteins and other blood-derived products as well as a fluorocarbon-based blood substitute. Active in research and development of monoclonal antibodies, interferons and diagnostic enzymes and in the use of recombinant DNA technology in the production of albumins, blood factors and hepatitis vaccines. Supported by Green Cross Corp, Japan.

Alpha-Tec Systems Inc

PO Box 17196, Irvine, CA 92713-7196.
Tel: 714 474 3028/800 221 6058

Fax: 714 474 1613

Supply buffers and laboratory reagents, bacteriological and serological controls, stains and reagents as well as culture media and test kits.

Alza Corp

950 Page Mill Road, PO Box 10950, Palo Alto, CA 94303.

Tel: 415 962 4128/800 692 2990

Fax: 415 494 5151

Supply osmotic pumps. These implantable drug delivery systems for preclinical research have been successfully used in over 4000 studies on the effects of continuous administration of a wide range of therapeutic agents including peptides, growth factors, cytokines, cancer chemotherapeutic drugs, hormones and steroids.

AMBIS Inc

3939 Ruffin Road, San Diego, CA 92123.

Tel: 619 571 0113/800 88 AMBIS/800 882 6247
Fax: 619 571 5940

Produces image acquisition and analysis hardware and software, direct counting of beta- and gamma-emitters, image generation and quantitation for gels, blots and TLC plates; expert software packages for quantitative analysis of images and histograms, determination of molecular weight, DNA footprinting and pattern matching RFLP analysis; a new high-density hexagonal detector array for maximum sensitivity and throughput with greater speed. An optional sample changer is also available to maximize throughput.

Amer Particle Technology Inc

PO Box 5685, Montecito, CA 93150.

Tel: 805 565 3121 Fax: 805 684 0344

Developing drug delivery systems including an inhaled insulin delivery system via pollen grains.

American Biochemicals Inc

9450 Scranton Rd, Suite 111-195, San Diego, CA 92121.

Tel: 619 597 6050 Fax: 619 597 6051

Supplies human and animal hormones, special biologically active peptides, antisera, functionalized resins for peptide synthesis, bulk production of protected peptide as well as fragments and unnatural amino acids for peptide synthesis.

American Biogenetics Corp

822 N Broadway, Santa Ana, CA 92701.

Tel: 714 835 8037

Using rDNA and fermentation techniques to produce chemicals. Also developing diagnostics for agricultural and veterinary use, flavour enhancers, industrial and laboratory enzymes.

American Biologics

1180 Walnut Ave, Chula Vista, CA 92011-2622.

Tel: 619 429 8200 Fax: 619 429 8004

Produce therapeutics including immunomodulators for human therapeutics, hormones and peptide messengers.

American Cytogenetics Inc

6440 Coldwater Canyon Ave, N Hollywood, CA 91606.

Tel: 818 985 1730

Developing tests for genetic disorders and sexually transmitted diseases.

American Innovision

9581 Ridgehaven Ct., San Diego, CA 92117.

Tel: 619 560 5681

Manufactures computerised biomedical instruments for use in molecular pathology and cytogenetics.

American Peptide Co Inc

777 East Evelyn Ave, Sunnyvale, CA 94086.

Tel: 408 733 7604 Telex: 789199

Fax: 408 733 7603

Offer services in custom synthesis of peptides and other organic compounds as well as in liquid chromatography.

American Qualex International Inc

14620 E Firestone Boulevard, La Mirada, CA 90638-5915.

Tel: 714 521 3753/800 772 1776

Fax: 714 994 1203

Birch Street, Santa Ana Heights, CA 92707

Produces affinity isolated antibodies and monoclonal antibodies, affinity isolation systems and antisera. Offers custom services in assay development as well as protein A purification system for monoclonal antibody development.

American Society for Biotechnology

PO Box 2820, Sausalito, CA 94966.

Amgen Inc

Amgen Center, 1840 DeHavilland Drive, Thousand Oaks, CA 91320.

Tel: 805 447 2303/800 343 7475

Fax: 805 447 1000

Offers partnership funding and services in scale-up in manufacturing, clinical development, regulation, cGMP manufacturing, marketing and worldwide sales in the area of human therapeutics, diagnostics and animal healthcare, based on established research in haematopoiesis, cancer and wound healing. The joint venture Kirin-Amgen developed and marketed erythropoietin and granulocyte colony stimulating factor. Setting up the Amgen Institute in Toronto,

Canada to carry out immunoresearch in conjunction with the Ontario Cancer Institute/Princess Margaret Hospital.

Amylin Corp

9373 Towne Centre Drive, Suite 250, San Diego, CA 92121.
Tel: 619 552 2200 Fax: 619 552 2212
Developing therapeutics and diagnostics for diabetes.

Analytical Imaging Concepts Inc

12 Woodfall, Irvine, CA 92714.
Tel: 714 857 1269/800 535 2425
Manufacture computerized image analyzers.

Analytical Luminescence Laboratory

11760 Sorrento Valley Road E, San Diego, CA 92121.
Tel: 619 455 9283/800 854 7050
Fax: 619 455 9204

Manufactures instruments and reagents for bioluminescence and chemiluminescence.

Analytical Products Inc

3339 Arden Rd, Hayward, CA 94545.
Tel: 415 732 5400/800 227 9738
Telex: 172060 Fax: 415 732 6109

Supplies laboratory chemicals and diagnostics including standards, controls and reagents as well as pipette calibrators. Also supply infrared radiation sources, detectors and systems.

Analytichem International Inc

24201 Frampton Ave, Harbor City, CA 90710.
Tel: 310 539 6490/800 421 2825
Fax: 310 539 4270

Supplies equipment and accessories for analytical chromatography, including HPLC and solid phase extraction columns.

Anergen Inc

301 Penobscot Dr, Redwood City, CA 94063.
Tel: 415 361 8958

Develops biopharmaceutical therapeutics for the treatment of autoimmune diseases including multiple sclerosis and myasthenia gravis.

Antibodies Inc

PO Box 1560, Davis, CA 95617-1560.
Tel: 916 758 4400/800 824 8540
Fax: 916 758 6307

Produces custom and regular antibodies. Products include medical and veterinary diagnostic kits, polyclonal and monoclonal antibodies, anti human T-cell factor, fluorescent diagnostics, radioimmunoassays, primary and secondary antiserums as well as RNA and DNA test kits. Carrying out research on monoclonal antibodies as well as infectious diarrhoea and autoimmune diseases.

Antigen Supply House

19201 Parthenia St, Suite B, Northridge, CA 91324.
Tel: 818 701 5997/800 423 5783

Produces bacterial and fungal antigens for use in skin tests.

Anver Bioscience Design Inc

160 E Montecito Ave, Sierra Madre, CA 91024.
Tel: 818 355 1568 Fax: 818 355 1568

Carrying out research on plant secondary metabolites as sources of chemicals and pharmaceuticals.

Applied Biosystems

850 Lincoln Centre Drive, Foster City, CA 94404.
Tel: 415 570 6667/800 345 5ABI (5224)
Telex: 470052 apbio Fax: 415 572 2743

Produces systems for: genetic analysis including a DNA sequencer, DNA fragment analyzer, DNA synthesis, nucleic acid purification, a robotic chemistry labstation, and software for DNA sequence assembly and analysis; protein/peptide research including systems for amino acid analysis, peptide synthesis, carbohydrate analysis, protein sequencing and automated electrophoresis. Also supplies consumables for fluorescence-based DNA sequencing reactions, fluorescent labelling of fragments, oligonucleotide synthesis and analysis, nucleic acid purification and a wide range of consumables for protein/peptide chemistry research. Division of Perkin-Elmer Corp.

Applied ImmuneSciences Inc

5301 Patrick Henry Drive, Santa Clara, CA 95054.
Tel: 408 497 9200 Fax: 408 980 5888

Developing device-based ex vivo therapeutics based on genetically engineered molecules and/or monoclonal antibodies for selective removal of protein and blood components as well as cancer markers. Supply a micro cell culture flask for research use in selection of target cell populations, available with a variety of surface coatings: CD3, CD4, CD5/CD8, CD34, soybean agglutinin, goat anti-mouse and surface activated.

Applied Medi-Science Inc

1500-A Davidson Ave., San Francisco, CA 94124.
Tel: 415 285 1894 Fax: 415 285 1796

Develops, manufactures and markets EIA based diagnostics for infectious diseases and peptides for HIV and neurological research. Offers custom synthesis of DNA and peptides.

Applied Protein Technologies Inc

214 Shorebird Cir, Redwood Shores, CA 94065.
Tel: 617 868 6085

Produce peptide and protein synthesizers and associated chemicals and reagents.

Applied Research Laboratories

Fisons

24911 Avenue Stanford, Valencia, CA 91355.
Tel: 805 295 0019/800 551 8741
Telex: 4720130 arlabs Fax: 805 295 0419

Supply spectrophotometers and spectrometry equipment.

Applikon Inc

1165 Chess Drive, Suite G, Foster City, CA 94404.
Tel: 415 578 1396 Fax: 415 578 8836

Manufacture a range of bioreactors including systems for cell culture and continuous cultures constructed of glass or stainless steel with 4 different impeller types available. Head plates are fitted with sensor plates for temperature, anti-foam, pH/redox, dissolved oxygen and turbidity. The fermenters are agitated by means of a magnetically coupled, slip-free, servo-controlled mechanism giving consistent results with media of varying viscosity. Products of Applikon, Netherlands.

ARCO Plant Cell Research Institute

6560 Trinity Court, Dublin, CA 94568.
Tel: 415 833 3400

Using recombinant techniques and tissue culture to produce new varieties of plants.

Arris Pharmaceutical Corp

385 Oyster Point Blvd., Suite 12, S. San Francisco, CA 94080.
Tel: 415 737 8600 Fax: 415 737 8590
Developing novel therapeutic cytokines.

Asset Management Co

2275 East Bayshore, Suite 150, Palo Alto, CA 94303.
Tel: 415 494 7400 Telex: 334425 asset pla
Fax: 415 856 1826

Venture capital firm which invests primarily in technology companies including biotechnology and medical products mainly at the early stage of financing but also for expansion. Provide contacts with other investors and assistance on strategy, financing and recruitment.

Astra Scientific International Inc

6900 Koll Center Parkway, Suite 417, Pleasanton, CA 94566.
Tel: 510 426 6900 Fax: 510 426 6990

Manufactures a cell-culture bioreactor and other fermentation equipment as well as data-collection, control and analysis software for use with all analog signals from the bioreactors and associated accessories.

Athena Neurosciences Inc

800F Gateway Boulevard, South San Francisco, CA 94080.
Tel: 415 877 0900 Fax: 415 877 8370

Discovers, develops and markets therapeutic and diagnostic products for treatment of neurological diseases and disorders. Products for diagnosis and treatment of Alzheimer's disease and inflammatory brain diseases, such as multiple sclerosis, are currently undergoing preclinical and clinical trials.

Austral Biologicals

125 Ryan Industrial Ct., Suite 207, San Raymon, CA 94583.
Tel: 510 820 8390 Fax: 510 820 6843

Produces and supplies growth factors, hormones, growth factor receptors and monoclonal and polyclonal antibodies for research applications.

Autodesk Inc

2320 Marinship Way, Sausalito, CA 94965.
Tel: 415 331 0356/ 800 424 9737
Fax: 415 331 8093

Supply molecular modelling software.

Automedix Sciences Inc

19401 S. Vermont Ave, Ste. J100, Torrance, CA 90502.
Tel: 213 327 1112 Fax: 213 329 9381

Develop therapeutics for the treatment of cancer.

Axion Inc

395 Oyster Point Boulevard, Suite 405, South San Francisco, CA 94080.
Tel: 415 952 8400 Fax: 415 952 5675

Provides oncology drugs and managed care services.

Axxiom Chromatography Inc

11988 Challenger Court, Moorpark, CA 93021.
Tel: 805 523 8888/800 441 8888
Fax: 805 523 2313

Manufacturer and distributor of microcomputer-based data systems and controllers for gas chromatography and HPLC.

Part II California — CA UNITED STATES OF AMERICA

B D Immunocytometry Systems

2350 Qume Drive, San Jose, CA 95131-1893.
Tel: 408 432 9475 Telex: 9103382026

Supply monoclonal antibodies against DNA, complement components, histocompatibility antigens, human immunoglobulins, lymphokines, monokines, cell markers and tumour associated antigens as well as equipment for flow cytometry.

B/T Communications Group

4099 Huereano Ave, Suite 206, San Diego, CA 92117.
Tel: 619 483 2022 Fax: 619 483 1636

Postal Address: PO Box 17649, San Diego, CA 92177

Offer marketing services.

B/T SciTech

4099 Huereano Ave, Suite 206, San Diego, CA 92117.
Tel: 619 483 2022 Fax: 619 275 2112

Postal Address: PO Box 17649, San Diego, CA 92177

Supplies a broad range of products including HPLC, resins, consumables, software, peptides, molecular biology kits and reagents. Distribution company for biotechnology, molecular biology and life science products.

BabCo Berkeley Antibody Co

4131 Lakeside Drive, Suite B, Richmond, CA 94806-1965.
Tel: 510 222 4940 Fax: 510 222 1867

Offer services in custom synthesis of monoclonal and polyclonal antibodies, protein purification and separations.

Bachem California

3132 Kashiwa Street, Torrance, CA 90505.
Tel: 310 539 4171 Fax: 310 530 1571

Supplier of amino acid derivatives, bioactive peptides, enzyme substrates and inhibitors, growth factor, lymphokines and bulk peptide pharmaceuticals.

Baekon Inc

4420 Enterprise St, Fremont, CA 94538.
Tel: 510 683 8881 Fax: 510 683 8712

Specializes in bio-manipulation. Develop, manufacture and market advanced bioelectronic instruments, macromolecules and organisms. Products include electrofusion and electro-gene-transfer systems for facilitating the transfer of foreign genetic material into bacterial, animal or plant cells. Developing a pulsed electrophoresis control system.

Baxter Diagnostics Inc

Paramax Chemistry

9500 Jeronimo Rd, Irvine, CA 92718.
Tel: 714 458 6000 Fax: 714 458 2566

Supply automated analyzers and reagents.

Baxter Diagnostics Inc

MicroScan

1584 Enterprise Blvd, W Sacramento, CA 95691.
Tel: 916 372 1900/800 631 7216
Fax: 916 372 2081

Develops and manufactures computer controlled electronic instrumentation and disposables for clinical microbiology laboratory use. Manufactures systems for rapid bacterial/yeast/anaerobe identification (2-4 hrs) and rapid bacterial susceptibility testing (3.5-15 hrs). Products include microbiological test panels, serological, immunological and parasitology test kits and biochemical reagents.

Baxter Healthcare Corp

Hyland Division (formerly Bio-Response Inc)

1978 West Winton Avenue, Hayward, CA 94545.
Tel: 415 786 9744 Telex: 510 100 5247
Fax: 415 887 1388

Developing techniques for hollow-fibre, large-scale culture of animal cell lines, such as mouse myeloma and hybridomas, using lymph fluid systems with the objective of isolating specific cell types producing potentially useful products, including monoclonal antibodies. Other products include non-rDNA TPA and diagnostic kits. Distributes treated animal lymph as replacement for foetal calf serum. Offer contract production services.

Baxter Healthcare Corp

Industrial Division

27200 North Tourney Rd, Valencia, CA 91355.
Tel: 805 253 7463

Supply clean room gamma irradiation sterilized clothing.

Bay Bioanalytical Laboratory Inc

4197 Lakeside Dr., Suite 120, Richmond, CA 94547.
Tel: 510 758 8055 Fax: 510 758 8054

Provides contract instrumental analysis service to the biotechnology and biopharmaceutical industries, including HPLC, GC capillary electrophoresis, UV-Vis, fluorescence, light-scattering and polarimetry. Other services include protein and nucleic acid characterization, stability and purity analysis.

Bechtel Group Inc

Research and Engineering

50 Beale Street, San Francisco, CA 94105.
Tel: 415 768 1234 Telex: 470195

Part of a major energy, petrochemical and mining consortium. Carries out studies on energy developments, including aspects of biomass fuels and bioconversion of raw materials with production of fuel alcohol from sugar and starch crops.

Beckman Instruments Inc

Altex Scientific Division

4550 Norris Canyon Rd, San Ramon, CA 94583-0701.
Tel: 415 866 0511/800 742 2345
Telex: 678413

Manufacture amino acid analysers, chromatography equipment including liquid HPLC, detectors and accessories, columns, sample injectors and separation and purification equipment.

Beckman Instruments Inc

2470 Faraday Ave, Carlsbad, CA 92008.
Tel: 619 438 9151 Fax: 619 438 6389

Produce diagnostic enzymes by fermentation for research and analytical purposes. Also provide fermentation services.

Beckman Instruments Inc

Diagnostic Systems Group

200 South Kraemer Blvd, PO Box 428, Brea, CA 92621.
Tel: 714 993 5321

Products under development include diagnostic enzymes, antisera and kits.

Beckman Instruments Inc

2500 Harbor Boulevard, Fullerton, CA 92634-3100.

Tel: 714 773 8485/800 742 2345
Telex: 678413 Fax: 714 773 8883

Develops, manufactures and markets automated systems and supplies for life science research and clinical diagnostic laboratories for R&D in diagnosis of disease. Products include instruments, accessories, software and consumables for sample preparation, separation, detection, measurement and data handling as well as protein sequencers.

Beckman Instruments Inc

Spinco Division/Bioprocess Operation

1050 Page Mill Rd, Palo Alto, CA 94304.
Tel: 415 857 1150/800 742 2345
Fax: 415 859 1550

Manufactures centrifugal equipment including ultracentrifuges, high speed centrifuges, large capacity centrifuges, benchtop general purpose centrifuges, microfuges, rotors and tubes and bottles.

Becton Dickinson

Immunocytometry Systems

2350 Qume Drive, San Jose, CA 95131-1807.
Tel: 408 954 2682/800 223 8226
Fax: 408 954 2156

Produce monoclonal antibodies against complement components and receptors, DNA, human histocompatibility antigens, immunoglobulins, tumour associated antigens, flow cytometers, cell sorters, reagents and test kits.

Beral Enterprises

9400 Lurline Ave, Unit F, Chatsworth, CA 91311.
Tel: 818 882 6544 Fax: 818 882 3229

Manufacture culture media, antiseptics, equipment for blood processing and microbiology, labware, pipettes and syringes.

Berkeley Biologicals

1831 Second St, Berkeley, CA 94710.
Tel: 415 843 6846

Produce fungal antigens for use in skin tests. Products under development include allergenic extracts, coccidioidin and histoplasmin.

Berlex Biosciences

213 E. Grand Ave., S. San Francisco, CA 94080.
Tel: 415 952 7070 Fax: 415 266 7400

Developing therapeutics for cardiovascular diseases including soluble thrombomodulin, erb B-2 monoclonals and growth factor receptor antagonists. A subsidiary of Berlex Laboratories Inc.

Billups-Rothenbreg Inc

PO Box 977, Del Mar, CA 92014-0977.
Tel: 619 755 3309/800 543 0522
Fax: 619 755 3309

Supply cell and tissue culture equipment including a modular incubator chamber, a hot box system for containment of [35S] radioactive gases and a containment growth chamber for viruses or cells with special gas requirements.

Binding Site Inc

5889 Oberlin Drive, Suite 101, San Diego, CA 92121.
Tel: 619 453 9177/800 633 4484
Fax: 619 453 9189

Supplies immunological and biological reagents including monoclonal and polyclonal antibodies as well as custom immunization and custom peptide synthesis (see Binding Site, UK). Kits for monoclonal antibody isotyping and for quantitation of human, mouse and rat IgG subclasses, myeloma serums, purified immunoglobulins, IgG subclasses and serum proteins, autoimmune disease kits and complement kits, affinity purified, species specific, F(ab)(2) antibodies and conjugates now available.

BIO 101 Inc

PO Box 2284, La Jolla, CA 92038-2284.
Tel: 619 598 7299/800 424 6101
Telex: 990498 bio101 Fax: 619 598 0116

Manufacture and market a rapid DNA purification kit, plasmid preparation kit, growth media, cell and tissue culture equipment, laboratory glassware cleaning devices and storage.

Bio-National Corp

221 Old Yard Road, Bakersfield, CA 93307-4269.
Tel: 805 833 1145 Fax: 805 833 3537

Carry out on-site bioremediation of hazardous waste using microorganisms and produce bioremediation cultures.

Bio-Rad Laboratories

Life Science Group

1000 Albert Nobel Drive, Hercules, CA 94547.
Tel: 510 741 1/800 4 BIORAD
Fax: 800 879 2289

85A Marcus Drive, Melville, NY 11747.
Tel: 516 756 2594 Fax: 516 756 2575

Supplies fast affinity chromatography polymeric support, as pre-packed columns for HPLC or in bulk for production scale separation systems, as well as systems for rapid, quantitative electrophoretic transfer of high molecular weight denatured nucleic acids using nylon transfer membranes for electro-blotting of DNA/RNA for subsequent hybridization in DNA sequencing. Products include HPLC systems and columns, molecular biology systems, capillary electrophoresis and electrophoresis systems.

Bio-Rad Laboratories

ECS Division

3700 East Miraloma Ave, Anaheim, CA 92806.
Tel: 714 630 6400/800 854 6737
Telex: 3717107 Fax: 714 666 1383

Supplies clinical controls and test kits.

Bio-Rad Laboratories

Diagnostics Group

1000 Alfred Nobel Drive, Hercules, CA 94547.
Tel: 510 724 7000/800 227 1600
Fax: 510 724 5024

Supplies controls and reagents for diabetes, genetic disorders, toxicology and immunochemistry as well as developing immunodiagnostic tests including a test for AIDS.

Bio-Sep Co

872 Autumn Drive, Walnut Creek, CA 94598.
Tel: 510 934 0656 Fax: 510 945 6360

Manufacture equipment for cell fractionation.

Biocad Corp

1390 Shorebird Way, Mountain View, CA 94043.
Tel: 415 903 3900 Fax: 415 961 0584

Develop and market simulation and modelling software for designing novel biologically active molecules.

Biocell Laboratories

2001 University Drive, Rancho Dominguez, CA 90220-6411.

Tel: 310 537 3300/800 222 8382
Fax: 310 637 3927

Manufacturer of medical laboratory diagnostic devices, components and research products. Specialize in bulk production processing, separation and purification of blood serums and protein fractions. Products include tissue culture grade serums, growth factors, diagnostic grade human and animal serums, serum components, disease state serums, human and animal serum fractions, immunology products, organs, glands and tissue, controls, calibrators, diluents and antisera (2nd antibody). Offer contract services in custom processing and product development. Manufacturer of in vitro and in vivo Class I, II, and III medical devices.

Biocine Co

4560 Horton St, Emeryville, CA 94608.
Tel: 415 655 8730 Telex: 176247

Developing vaccines against infectious diseases. Joint venture between Ciba-Geigy and Chiron, US.

Biocircuits Corp

1450 Rollins Rd, Burlingame, CA 94010.
Tel: 415 343 1961 Fax: 415 343 3239

Developing medical immunodiagnostic systems.

BioGenex Laboratories

4600 Norris Canyon Rd, San Ramon, CA 94583.
Tel: 510 275 0550/800 421 4149/800 521 2383
Telex: 296121 Fax: 510 275 0580

Develops, produces and distributes worldwide cellular diagnostic products. Major product lines include immunohistochemistry kits and antibodies, in-situ hybridization products, ovulation prediction test kits and pregnancy detection kits. Also develops and manufactures DNA and RNA synthesis reagents and Western Blot instruments with HIV-1 and HTLV-1 confirmatory test kits as a result of the acquisition of ABN, US.

Biogenics Inc

PO Box 627, Santa Cruz, CA 95061.
Tel: 408 476 1200 Telex: 296452

Carry out algal culture and harvesting for production of extracts for pharmaceuticals, food supplements and fertilizers.

BioGrowth Inc

3065 Richmond Parkway, Suite 117, Richmond, CA 94806.
Tel: 415 222 2084 Fax: 415 222 8425

Developing protein-based delivery systems to enhance the efficacy of recombinant DNA-derived pharmaceuticals used in wound healing, osteoporosis etc.

Biolog Inc

3938 Trust Way, Hayward, CA 94545.
Tel: 415 785 2585/2564 Fax: 415 782 4639

Produces test kits and instruments for identification of both clinical and environmental bacteria, incorporating a single redox dye colour change based on NADH oxidation.

Biological Information Systems

101 South San Mateo Drive, Suite 315, San Mateo, CA 94401.

Tel: 415 342 8323

Developing clinical diagnostics. Offers laboratory services in clinical testing.

Biomed Instruments Inc

1020 South Raymond Avenue, #B, Fullerton, CA 92631.

Tel: 714 870 0290 Fax: 714 870 6385

Manufactures and supplies flatbed and hand-held scanners, laser and video scanners, video densitometers, a laser densitometry station, a video densitometry station, photodocumentation systems, a protein and DNA imaging station and a wide range of software (see AAB Advanced American Biotechnology).

Biomeda Corp

PO Box 8045, 1155 Triton Drive, Suite E, Foster City, CA 94404.

Tel: 415 341 8787/1 800 341 8787
Fax: 415 341 2299

Produce antisera, antibodies and antigens including peroxidase antibody conjugates as well as polyclonal and monoclonal antibodies against human immunoglobulins and human histocompatibility antigens, immunohistochemical staining kits for tumour identification and differentiation, avidin-biotin complex reagents, phycobiliprotein fluorescent tracers and DNA hybridization-probe-detection systems and ancillary reagents.

Biomerica Inc

1533 Monrovia Ave, Newport Beach, CA 92663.
Tel: 714 645 2111/800 854 3002

Fax: 714 722 6674

Develop and manufacture laboratory products including monoclonal and polyclonal antibodies, antigens, controls and reagents for EIA and RIA, and diagnostic test kits for clinical and research laboratories.

Biopool International Inc

6025 Nicolle St, Ventura, CA 93003.

Tel: 805 654 0643 Fax: 805 654 0681

Provides diagnostic kits for coagulation and fibrinolysis testing as well as monoclonal and polyclonal antibodies for use in research projects. New product lines include stable liquid controls for drugs of abuse and therapeutic drug monitoring assays.

Part II California — CA UNITED STATES OF AMERICA

Bioremediation Inc

3344 Industrial Court, Suite 2W, San Diego, CA 92121.

Tel: 619 793 0201 Fax: 619 793 0275

Offer bioremediation and environmental biotechnology services.

Bioserv Corp

11211 Sorrento Valley Rd, Suite T, San Diego, CA 92121.

Tel: 619 450 3123 Fax: 619 450 0785

Undertake contract manufacturing and consulting services, specializing in invitro diagnostics.

BioSoftware Marketing

4151 Middlefield Rd, Ste 109, Palo Alto, CA 94303.

Tel: 415 858 0522

Dealer/distributor of software for PC/Mac, including products of Cambridge Scientific Computing, Hypercube and SciVision as well as Protein Expert for visualisation and other software.

Biosource Genetics Corp

3333 Vaca Valley Parkway, Vacaville, CA 95688.

Tel: 707 446 5501 Fax: 707 446 3917

Using recombinant DNA techniques to select plant strains for production of biopolymers for the food and speciality chemicals industries. Projects include genetically engineered hybrid seed with improved disease resistance and yield.

BiosPacific Inc

4053 Harlan St, Suite 110, Emeryville, CA 94608.

Tel: 513 652 6155 Fax: 513 652 4531

Develop antibodies relating to human hormones, and affinity purification of antibodies. Offer custom services in conjugation of antigens and antibodies, antisera production, OEM antibodies, antigens and controls.

Biosym Technologies Inc

9685 Scranton Rd, San Diego, CA 92121.

Tel: 619 458 9990 Fax: 619 458 0136

Market a 3-dimensional, real-time molecular modelling program which can selectively display and manipulate molecules and their components. Offer contract research in computer-aided molecular design.

Biosys

1057 East Meadow Circle, Palo Alto, CA 94303.

Tel: 415 956 8500 Fax: 415 424 8003

Developing nematode based products for biological insect pest control. Have partnership with Ciba-Geigy.

Biotechnologies and Experimental Research Inc

3742 Jewell St, San Diego, CA 92109.

Tel: 619 270 0861 Fax: 619 483 3817

Produce an electroporation monitor for use in checking chamber conditions which interfaces directly with electroporation systems and exponential decay pulse power supplies from other manufacturers. Either peak voltage or pulse width can be monitored in order to establish optimum experimental conditions.

Biotechnology Transfer Service

5066 Anaheim Loop, Union City, CA 94587-5523.

Tel: 510 475 7898 Fax: 510 475 7898

Offer consultancy services to biotechnology companies, primarily related to business development in the Asia-Pacific region. Services include market research studies, preparation of strategic business plans, technology transfer evaluations, strategic partner identification and distributor performance reviews.

Biotherapy Systems Inc

291 N Bernardo Ave, Mountain View, CA 94043.

Tel: 415 940 1200

Produces monoclonal antibodies for cancer therapy.

Biozyme Laboratories International Ltd

9939 Hibert St, Suite 101, San Diego, CA

92131-1030.

Tel: 619 549 4484/800 423 8199

Telex: 240833 bioz Fax: 619 549 0138

Supplies a range of highly purified enzymes for a variety of applications in clinical diagnostics, immunodiagnostics and biotechnology. All the products are available in bulk quantities and include: alcohol dehydrogenase, alkaline phosphatase, ascorbate oxidase, cholesterol esterase, enterokinase, glucose oxidase, glutamate dehydrogenase, peroxidase, ribonuclease, trypsin inhibitor and urease. Products of Biozyme Laboratories Ltd, UK.

BMDP Statistical Software

1440 Sepulveda Blvd, Suite 316, Los Angeles, CA 90025.

Tel: 213 479 7799 Telex: 4972934 bmdp

Fax: 213 312 0161

Supply statistical software and computer equipment for statistics and statistical research, analytical research and biometrics, comprising an extensive range of data analysis programs.

Bridge Biosystems Inc

2542 Barrington Court, Hayward, CA 94545-1133.

Tel: 415 732 1111/800 367 8462

Fax: 415 732 1131

Manufactures: disposable plasticware: pipette tips, microtubes, microtitration plate and tube systems, tissue culture plastics; liquid handling instruments: single and multichannel digital micropipettes; electrophoresis apparatus and DNA sequencing instruments.

Broadley-James Corp

1714 S Lyon St, Santa Ana, CA 92705-0000.

Tel: 714 547 8061 / 800 288 2833

Fax: 714 547 8988

Manufactures sterilizable and autoclavable pH and ORP electrodes as well as sterilizable dissolved oxygen sensors.

Brunswick Technetics

Membrane Filter Products

4116 Sorrento Valley Blvd, San Diego, CA 92121.

Tel: 619 455 7260 Fax: 619 455 7266

Manufactures double layer membrane cartridge filters.

BTX Inc

11199 Sorrento Valley Rd, San Diego, CA

92121-1334.

Tel: 619 597 6006/800 289 2465

Telex: 510 600 3313 Fax: 619 597 9594

Involved in the following technologies: instrument systems for rDNA gene transfer; cell fusion; embryo manipulation; electroporation; separation and purification of cells and megabase DNA using electric and magnetic fields.

BioSource International Inc

887 Mitten Road, PO Box 4463, Burlingame, CA 94010.

Tel: 415 692 4015/800 242 0607

Fax: 415 692 9004

950 Flynn Rd A, Camarillo, CA 93012.

Tel: 800 242 0607 Fax: 805 987 3385

Supply approximately 600 products including a range of bioactive proteins, antibodies, human and murine cytokines, growth factors and a variety of assay systems for the detection of biological molecules.

C-C Biotech Corp

16766 Espola Rd, Poway, CA 92064.

Tel: 619 451 9949 Fax: 619 487 8138

Supply immunomodulators/adjuvants, purified proteins, enzymes, immunological reagents and antibodies.

Cahn Instruments Inc

16207 S Carmentia Road, Cerritos, CA 90701.

Tel: 213 926 3378/800 423 6641

Telex: 3724174 Fax: 213 926 6969

Manufactures micro-balances, including systems designed to work at high pressures and temperatures, and measure surface tension.

Cal-Glass for Research Inc

3012 Enterprise St, Costa Mesa, CA 92626.

Tel: 714 546 7250 Fax: 714 755 7800

Manufactures chromatography columns, quartz and pyrex, distillation laboratory glassware, micro glassware and vials for liquid scintillation counting as well as offering custom design and fabrication or repair for research laboratory and industrial glassware equipment.

Calbiochem-Novabiochem Corp

10394 Pacific Center Court, San Diego, CA 92121.

Tel: 619 450 9600/800 854 3417

Telex: 697934 Fax: 619 453 3552/800 7760999

Manufactures and distributes biochemical reagents, immunochemical reagents and analytical research enzymes. Products include serum and tissue proteins, signal transduction reagents, neurochemicals, buffers and polyclonal antibodies, monoclonal antibodies, immunoglobulins, biotin, lipids, detergents, toxins and inhibitors, reagents for peptide synthesis, peptides, substrates and resins.

Calbiomarine Technologies Inc

1001 Capri Rd, Leucadia, CA 92024.

Tel: 619 436 4179 Fax: 619 436 9413

Supply large scale systems for natural marine product production, marine fine chemicals and pharmaceutical precursors.

Calgene Inc

1920 Fifth Street, Suite F, Davis, CA 95616.
 Tel: 916 753 6313 Telex: 350370 cgene
 Fax: 916 753 1510

Research company using recombinant DNA technology and other in vitro methods of plant breeding to improve commercially important crops, such as corn, rapeseed, sunflower, cotton and tomatoes, the quality of food products and legume transformation and regeneration as well as herbicide resistance. Other areas of interest include plant biochemistry in relation to disease and the response to pathogenic bacteria. Developing pesticides for crop plants and trees. Undertakes contract research in this area. Allied Corp, US and Continental Grain Co, US hold a minor interest in this company. Subsidiaries are Plant Genetics (tomato, potato, alfalfa and lettuce), Ameri-Can Pedigreed Seed (canola, rapeseed), Calgene (oleochemicals), Stoneville Pedigreed Seed (cottonseed) and NobleBear (speciality hybrid corn varieties).

California Energy Commission

Synthetic Fuels Office

1111 Howe Avenue, Sacramento CA 95825.
 Tel: 916 920 6031

Activities include partial financial support of a number of projects aimed at production of ethanol for use as fuel using raw materials such as poor-grade citrus fruit, grapes, peaches, almond hulls etc as well as purpose-grown corn or sweet sorghum. Such projects may also generate stillage suitable for use as animal feed supplement.

California Institute of Technology

Jet Propulsion Laboratory

4800 Oak Grove Drive, Pasadena, CA 91109.
 Tel: 818 354 4321

Carrying out studies on gas composition from anaerobic digestion.

California Institute of Technology

Department of Chemistry

1202 East California Boulevard, Pasadena, CA 91125.

Utilizing cloned DNA for the study of structural organization and processing of Drosophila RNA transcription.

California Institute of Technology

Division of Biology

1202 East California Boulevard, Pasadena, CA 91125.

Tel: 818 356 4951 Fax: 818 449 0756

Developing new techniques and instrumentation for an integrated protein and nucleic acid biotechnology: molecular biology; molecular structure of biological macromolecules; image analysis; computations in biology.

California Integrated Diagnostics

333 Market St, Suite 3450, San Francisco, CA 74105.

Develop diagnostic kits for sexually transmitted diseases and monoclonal antibodies. Subsidiary of Infergene, US.

California State Water Resources Control Board

901 P Street, Sacramento, CA 95814.
 Tel: 916 657 2390

University of California

Human Genome Center

Lawrence Berkeley Laboratory, Donner Laboratory, Room 213, Berkeley, CA 94720.
 Tel: 415 486 4191

University of California, Berkeley

Department of Genetics

Berkeley.

Investigating regulation of gene expression in mutants of maize.

University of California, Berkeley

Lawrence Berkeley Laboratory

1 Cyclotron Rd, Berkeley, CA 94720.
 Tel: 415 486 4277

Carrying out research on human genetics associated with production of blood lipoproteins, especially aspects of abnormally high levels in relation to arteriosclerosis and heart disease.

University of California, Berkeley

Department of Environmental Science, Policy and Management/ Entomology, Plant and Soil Microbiology Division

Berkeley.

Tel: 415 642 0341

Carrying out research on the use of genetically manipulated bacteria modified so as to decrease their effectiveness as initiation points for the growth of ice crystals in leaves under low temperature, thus decreasing the probability of frost damage to the plant.

University of California, Berkeley

Center for Plant Developmental Biology

Department of Genetics, 345 Mulford Hall, Berkeley, CA 94720-1570.
 Tel: 415 642 5404

University of California, Davis

Department of Entomology

Davis.

Carrying out research on reproductive biology, ecology and genetics of mosquito species found in California.

University of California, Davis

Biological & Agricultural Engineering Dept

Davis.

Tel: 916 752 0811 Fax: 916 752 2640

Develop information for design of enzyme-based sensors for application in food processing and storage.

University of California, Davis

Department of Agronomy

Davis.

Plant growth laboratory studying applications of genetic engineering and use of plasmids in improving bacteria for use in agriculture (eg Rhizobium for nitrogen fixation) and in production of fuels from biological raw materials (eg Zymomonas for fuel ethanol production).

University of California, Los Angeles

Molecular Biology Institute

405 Hilgard Avenue, Los Angeles, CA 90024.
 Tel: 213 206 6814 Fax: 213 206 6030

House the Biotechnology Research and Education Program to promote and support research in biotechnology and related issues. Carrying out studies on expression of genes coding for histone synthesis during development of the sea urchin embryo and nucleotide sequencing in oncogenic viruses.

University of California, Los Angeles

School of Medicine

2025 Zonal Avenue, Los Angeles, CA 90024.

Analyzing repetitive DNAs in human chromosomes; cloning influenza viral DNA segments in E coli as a means of studying viral replication; studying expression of viral genes; developing gene therapy techniques; regulating adenovirus transcriptions.

University of California, Riverside

Department of Plant Science

Riverside.

Tel: 714 787 4425

Investigating growth and propagation of jojoba as a means of producing a substitute for sperm whale oil.

University of California, San Diego

Department of Biology

La Jolla.

Selecting yeast mutants with increased level of alcohol dehydrogenase and investigating biochemical regulation of alcohol production.

University of California, San Diego

Department of Chemistry

La Jolla.

Carrying out the following studies: structure of bacterial hydrogenases and arrangement of iron-sulphur centres, genetic modification of hydrogenase for use in hydrogen-generating photolytic systems and control of RNA synthesis in yeasts.

University of California, San Diego

Center for Molecular Genetics

La Jolla.

Tel: 619 534 0396

University of California, Santa Cruz

Department of Chemistry

Santa Cruz.

Studying structure of rhodopsin through sequencing of cDNA cloned in E coli.

University of California, Santa Cruz

Division of Natural Science

Graduate School, Santa Cruz, CA 95060.

Studying the genetics of the Rhizobium-legume symbiotic nitrogen fixation. Also studying role of plasmids in slow-growing strains and differentiations following infection.

Calypte Biomedical Corp

1440 Fourth St, Berkeley, CA 94710.

Tel: 510 526 2541 Fax: 510 526 5381

Supply non-invasive diagnostic tests for sexually transmitted diseases, including HIV. Tests are mainly for use with urine samples.

Part II California — CA UNITED STATES OF AMERICA

Calzyme Laboratories Inc

3443 Miguelito Ct, San Luis Obispo, CA 93401.
Tel: 805 541 5754/800 523 9127
Telex: 4994640 Fax: 805 541 8301

Produces enzyme controls, enzyme inhibitors, nucleases, biochemicals for enzyme immunoassay and a wide range of clinical test kits. Offers custom services in protein purification and separation.

Cavro Scientific Instruments Inc

242 Humboldt Court, Sunnyvale, CA 94089.
Tel: 408 745 7400/800 231 0711
Fax: 408 745 0309

Manufactures and designs a wide range of precision liquid handling equipment from stand-alone diluters to computer-controlled modular digital pumps for custom OEM systems. Also domestic distributor of robotic sample processing modules (see Tecan, US).

Cell Associates Inc

36991 Greencroft Close, PO Box 89, The Sea Ranch, CA 95497.
Tel: 707 785 3181

Produces cell cultures and offers services in mycoplasma testing.

Cell Genesys Inc

344 Lakeside Drive, Foster City, CA 94404.
Tel: 415 358 9600 Fax: 415 358 0803

Developing human therapeutics and pharmaceuticals including transplant products, monoclonal antibodies and endocrine products.

Celtrix Laboratories Inc

2500 Faber Place, Palo Alto, CA 94303-3334.
Tel: 415 494 2500 Telex: 172194
Fax: 415 856 0533

A development-stage biopharmaceutical company currently engaged in the research and development of therapeutic products based on transforming growth factor beta (TGFB) family of proteins.

Center for Science Information

4252-20th St, San Francisco, CA 94114-2815.
Tel: 415 553 8772

Non-profit organization offering information on biotechnological advances and their role in industry and the environment.

Cetus Corp

1400 53rd St, Emeryville, CA 94608.
Tel: 510 420 3300/800 448 0049
Telex: 4992659 Fax: 510 420 4102

Major biotechnology company using molecular biology techniques and recombinant DNA technology for development and production of diagnostic and therapeutic products. Activities include the research, development and marketing of products with activity in the areas of serious infectious diseases, autoimmunity and cancer. The company is also engaged in the development and commercialization of its patented polymerase chain reaction technology through collaborations with Perkin Elmer in the areas of laboratory instruments and reagents, and with Hoffman LaRoche in the area of human diagnostics. Became part of Chiron Group in 1991.

Charles Evans & Associates

301 Chesapeake Drive, Redwood City, CA 94063.
Tel: 415 369 4567 Fax: 415 369 7921

Suppliers of laboratory equipment and materials. Products include a range of ultramicropipettes.

Chemicon International Inc

28835 Single Oak Drive, Temecula, CA 92590.
Tel: 909 676 8080/800 437 7500
Fax: 909 676 9209

Supplies immunochemical reagents for research and diagnostics: monoclonal and polyclonal antibodies for use in neuroscience, infectious disease, integrin/extracellular matrix and cell structure/signalling research; affinity purified and labelled antibodies; diagnostic test kits for autoimmune and infectious diseases. Offers bulk reagents and custom services including antibody production and purification.

Chemtrak Inc

929 East Arques Ave, Sunnyvale, CA 94086.
Tel: 408 773 8156 Fax: 408 773 1651

Developing non-instrumented diagnostics for home or doctor's surgery use.

Chevron Corp

225 Bush Street, San Francisco, CA 94104.
Tel: 415 894 7700

Investigating microbial techniques for oil recovery and conversion of hydrocarbons. Has significant investment in Cetus Corp, US.

Chimera Biotech Inc

650 Town Center Drive, Suite 810, Costa Mesa, CA 92626.

Using techniques of micro injection, embryonal stem cell culture and mammalian gene expression to produce transgenic animals.

Chiron Corp

4560 Horton Street, Suite 0214, Emeryville, CA 94608.
Tel: 510 655 8730 Fax: 510 658 0329

Research and development company involved in the application of recombinant DNA technology to production of immunological diagnostics and therapeutic substances. Interests include DNA probes for infectious and sexually transmitted diseases, monoclonal antibody in vitro diagnostics against disease, including AIDS antigen and hepatitis B tests, fibrinolytics, factor VIII, human growth hormones, epidermal growth factor, somatomedin C, interferon, lymphokines, including interleukin-2, enzymes, insulin, superoxide dismutase, human vaccines against hepatitis, herpes and AIDS, animal vaccines against viral disease and industrial enzymes for food use.

Chiron Mimotopes Peptide Systems

3550 General Atomics CT, San Diego, CA 92121.
Tel: 619 455 3710/800 338 4965
Fax: 619 455 3713/800 6545592

Offers a custom peptide synthesis service including purification and mass spectral analysis as well as large scale and GMP production. Also sell a HF cleavage system and provide HF cleavage services to researchers as well as immunological services including protein carrier conjugation, antibody production and affinity purification.

Chiron Ophthalmics Inc

9342 Jeronimo Rd, Irvine, CA 92718-1903.
Tel: 714 768 4690 Fax: 714 768 4882

Developing ophthalmic uses for products of recombinant DNA technology such as epidermal growth factors for stimulation of corneal cells, fibronectin for enhanced rates of corneal healing after eye surgery and a microbial corneal mortar, a proprietary compound for use in radial keratotomy as well as superoxide dismutase for use as an anti-inflammatory agent. A subsidiary of Chiron, US.

Climet Instruments Co

1320 W Colton Ave, PO Box 151, Redlands, CA 92373.
Tel: 909 793 2788 Fax: 909 793 1738

Manufacture liquid borne and airborne particle counters. A Venturedyne Company.



Clonetics Corp

9620 Chesapeake Drive, San Diego, CA 92123-1324.
Tel: 619 541 0086/800 852 5663
Fax: 619 541 0823

Supplier of normal human cells and serum-free optimized media as well as a bioassay for in vitro cytotoxicity screening.

Clontech Laboratories Inc

4030 Fabian Way, Palo Alto, CA 94303-4607.
Tel: 415 424 8222/800 662 CLON
Fax: 415 424 1064/800 4241350

Offers a wide variety of reagents, kits and other research tools for cloning, mutagenesis, nucleic acid isolation/purification, PCR amplification, gene expression analysis and protein analysis. Products include over 600 genomic and cDNA libraries, YAC libraries, oligonucleotide modification reagents for use in automated DNA synthesis, PCR primers/probes/kits, premade multiple tissue Northern blots and software for primer design and DNA/protein sequence analysis. In addition, provides custom services in library construction, oligonucleotide synthesis and peptide synthesis.

Codon Inc

213 E Grand Ave, South San Francisco, CA 94080.
Tel: 415 952 7070 Telex: 62898173

430 Valley Drive, Brisbane, CA 94005.
Tel: 415 467 0740

Research and development company using molecular biology and immunological techniques to develop food and industrial enzymes and reagents for human and veterinary health care as well as human diagnostics and veterinary vaccines. Has completed work on the cloning and expression of rennin. Undertakes contract research. Celanese, US and Elf Aquitaine, France have investment interests.

Cognis Inc

2330 Circadian Way, Santa Rosa, CA 95407.
Tel: 707 575 7155/800 524 3304
Fax: 707 575 7833

Carrying out research in molecular biology and protein engineering. Subsidiary of Henkel, Germany.

Coherent Laser Group

5100 Patrick Henry Drive, Santa Clara, CA 95054.
Tel: 408 764 4000 Fax: 408 764 4800

Produce a wide range of ion, dye, solid-state and ultrafast lasers.

Cole Scientific Inc

11968 Challenger Court, Moorpark, CA 93021-7122.
Tel: 800 423 5008 Fax: 805 523 7900

Supply accessories for analytical chromatography as well as for high performance liquid chromatography.

Collagen Corp

2500 Faber Place, Palo Alto, CA 94303-3334.
Tel: 415 856 0200/800 227 8933

Involved in research and development activities related to the specific use of collagen-based products in medical applications. Also interested in the replacement, repairing or regeneration of human body tissue involving development of medical devices, collagen implant technique and cell biology.

Cooper Laboratories Inc

3145 Porter Drive, Palo Alto, CA 94304.
Tel: 415 856 5000

Manufactures and distributes (through Cooper Diagnostics Inc, US and Cappel Laboratories, US) medical and other diagnostics based on immunological reactions.

Cor Therapeutics Inc

256 E Grand Ave, S San Francisco, CA 94080.
Tel: 415 244 6800 Fax: 415 244 9208

Carry out R&D of biologicals and pharmaceuticals for treatment of cardiovascular diseases.

Cornerstone Sensors Inc

1304 N Melrose Dr, Suite C, Vista, CA 92083.

Produces temperature monitors/controllers.

Cortex Blochem Inc

1933 Davis St, Suite 321, San Leandro, CA 94577.
Tel: 510 568 2228/800 888 7713
Fax: 510 568 2467

Manufacture and sell customized and 'off-the-shelf' diagnostic reagents including human proteins and enzymes of serum, urine and tissue origin, monoclonal and polyclonal antibodies and antiserums, paramagnetic materials utilizing an entrapment technology with applications in separation and purification systems.

Cortex Pharmaceuticals Inc

15241 Barranca Parkway, Irvine, CA 92718.
Tel: 714 727 3157 Fax: 714 727 3657

Carry out R&D on age-related brain disorders including stroke and Alzheimer's disease.

Corvas International Inc

3030 Science Park Rd, San Diego, CA 92121.
Tel: 619 455 9800 Fax: 619 455 7895

Design and develop therapeutics for vascular conditions.

Creative Scientific Equipment Corp

3711 Long Beach Blvd, Long Beach, CA 90807.
Tel: 310 427 3318 Fax: 310 424 6447

Supply filtration equipment.

Cutter Biologicals Inc

PO Box 1986, 4th & Parker Sts, Berkely, CA 94701.
Tel: 415 420 5000

Supply healthcare products.

Cygnus Therapeutic Systems

400 Penobscot Drive, Redwood, CA 94063.
Tel: 415 369 4300

Develops and manufactures advanced drug delivery products with potential to 'improve the efficacy and cost-effectiveness' of treatments. The company has a broad portfolio of products for the hormone replacement, glucose monitoring, smoking cessation, consumer products and contraception markets. Has one product in the market, one NDA submitted to the FDA and five in clinical trials.

Cytel Corp

3525 John Hopkins Court, San Diego, CA 92121.
Tel: 619 552 3000 Fax: 619 552 8801

Founded in 1987, the company is a 'leader' in the discovery, design and development of immunotherapeutics. Developing drug candidates under two distinct approaches: cell adhesion, directed to the suppression of an inappropriate immune response to treat inflammatory diseases; antigen recognition, directed to the stimulation of a specific immune response to treat infectious diseases and cancers.

Cytoculture International Inc

249 Tewksbury Ave, Point Richmond, CA 94801.
Tel: 510 233 0102 Fax: 510 233 3777

Offer services in environmental biotechnology, bioremediation and industrial waste treatment. Products include groundwater and industrial biotreatment reactors. Developing anaerobic systems for biodegradation of recalcitrant compounds.

Cytometrics Inc

11575 Sorrento Valley Road, San Diego, CA 92121.
Tel: 619 455 6452

Offer flow cytometry and molecular biology services. Specialize in immunophenotyping and molecular characterization of leukemias and lymphomas, and DNA content/cell cycle analysis in solid tumours. Division of Specialty Laboratories, US.

Dako Corporation

6392 Via Real, Carpinteria, CA 93013.
Tel: 805 566 6655/800 235 5763
Telex: 658481 Fax: 805 566 6688

Produces monoclonal and polyclonal antibodies. Supplies reagents and diagnostic kits for research and clinical uses. Subsidiary of Dako AS, Denmark.

Dalgety Inc

901 Mariner's Island Boulevard, PO Box 5919, San Mateo, CA 94404.
Tel: 415 572 8000

Concerned with food manufacturing and distribution, agricultural supplies and related activities.

Daryl Labs Inc

2220 Martin Ave, Santa Clara, CA 95050.
Tel: 408 988 3793

Supply veterinary diagnostics.

DDI Pharmaceuticals Inc

518 Logue Avenue, Mountain View, CA 94043.
Tel: 415 964 7676 Fax: 415 967 5243

Developing pharmaceuticals based on superoxide dismutase for use in medical and veterinary practice.

California Department of Pesticide Regulation

1020 N Street, Room 332 Library, Sacramento, CA 95814.
Tel: 916 324 4244

Department of Health Services

California Food & Drug Branch
714 P Street Room 400, Sacramento, CA 95814.
Tel: 916 445 2263

Depotech Corp

11025 N Torrey Pines Rd, Suite 100, La Jolla, CA 92037.
Tel: 619 625 2424 Fax: 619 625 2439

Develop sustained-release formulations of injectable pharmaceutical products.

Detector Engineering & Technology Inc

2212 Brampton Rd, Walnut Creek, CA 94598.

Supplies laboratory equipment including chromatography detectors and chemical analyzers.

Diagnostic Products Corp

5700 West 96th Street, Los Angeles, CA 90045.
Tel: 213 776 0180/800 421 5116/800 678 6699
Telex: 4720518 Fax: 213 642 0192

Manufactures a full line of immunodiagnostic kits and instrumentation for isotopic and non-isotopic testing in the clinical laboratory and physician's office. Applications include fertility testing, pregnancy detection and neonatal screening; testing for thyroid status, anaemia and infectious diseases; diabetes management, cancer monitoring and allergy testing; screening for drugs of abuse, therapeutic drug monitoring and veterinary testing.

Dionex Corp

1228 Titan Way, PO Box 3603, Sunnyvale, CA 94088-3603.

Tel: 408 737 0700 Telex: 348347
Fax: 408 730 9403

Manufactures HPLC and CE equipment, together with specialized column matrices, for the purification and analysis of carbohydrates, proteins, glycoproteins, nucleic acids and small anions and cations.

Disease Detection International Inc

181 Technology Drive, Irvine, CA 92718.
Tel: 714 753 1190 Fax: 714 753 1193

Manufacture tests for infectious diseases and provide contract R&D on their patented solid phase immunoassay.

The DNA Factory

PO Box 210226, San Diego, CA 92121.
Tel: 619 558 9570

Offer services in custom synthesis of DNA.

DNA Plant Technology Corp

DNAP
6701 San Pablo Avenue, Oakland, CA 94608.
Tel: 510 547 2395 Fax: 510 450 9389

Agribusiness biotechnology company focused on development and marketing of fresh and processed fruit and vegetables. Using advanced breeding to improve existing products and genetic engineering to further improve future products.

DNAX Research Institute

901 California Avenue, Palo Alto, CA 94304.
Tel: 415 852 9196 Fax: 415 496 1200

Developing DNA probe diagnostics, viral detection kits, interferon, interleukins, MAbs and therapeutics. A subsidiary of Schering-Plough.

Part II California — CA UNITED STATES OF AMERICA

Doctormates USA

1924 8th St, Berkeley, CA 94710.
Tel: 510 841 1751 Fax: 510 841 1751

Offer services in the Japanese medical products industry in medical device and drug R&D and regulatory affairs. Has standing contracts for performance of Phase I trials and preclinical analyses. Phase II, III and IV clinical trials are performed in conjunction with teaching hospitals throughout Japan.

Duke Scientific Corp

2463 Faber Road, Palo Alto, CA 94393.
Tel: 415 962 1100/800 334 3883
Fax: 415 424 1158

Manufactures cell culture and harvesting equipment, particle counters and cell culture media.

DyChrom

473 Sapena Ct, #8, Santa Clara, CA 95054.

Produce silica based DNA/RNA purification cartridges and associated buffers and reagents.

E-Y Laboratories Inc

107 North Amphlett Boulevard, PO Box 1787, San Mateo, CA 94401.
Tel: 415 342 3296/800 821 0044
Fax: 415 342 2648

Manufactures lectins, agglutinins and other products for use in immunological diagnostics including antibodies and antisera against fibrinogens, albumins, gamma-globulins, lectins, toxins and conjugated products. Protein A is sold linked to a range of markers. Developing sensitive marker technology for rapid assay in diagnostics and manufactures several culture confirmation tests.

Eldex Laboratories

831 Bransten Road, Unit L, San Carlos, CA 94070.
Tel: 415 592 9270 Telex: 171591 aaa
Fax: 415 592 5028

Manufacture pumping systems including pumps for high performance liquid chromatography, fraction collectors and equipment for liquid and ion chromatography and HPLC.

Entotech Inc

1497 Drew Ave., Davis, CA 95616.
Tel: 916 757 4700

Developing microbial insecticides. A subsidiary of Novo Nordisk A/S (Denmark).

Enzyme Systems Products

6491 Sierra Ln., Dublin, CA 94568.
Tel: 415 828 6618 Fax: 415 829 5162

Produces synthetic substrates and inhibitors, purification enzymes and protease inhibitors.

Ericomp Inc

6044 Cornerstone Court West, Suite E, San Diego, CA 92121-9475.
Tel: 619 457 1888/800 541 8471
Fax: 619 457 2937

Supply a microprocessor controlled general purpose temperature cyclers.

ESCAgenetics Corp

830 Bransten Rd, San Carlos, CA 94070-3305.
Tel: 415 595 5335 Telex: 910 376 5003
Fax: 415 595 4332

Using its proprietary phytofermentation technology, has begun a pilot-scale operation for the commercial production of an anti-cancer drug. Has also developed a worldwide plant extracts acquisition programme, coupled with an in-house

pharmacological screening programme for the development of plant-derived lead compounds for new proprietary pharmaceutical products. Produce natural vanilla and plant-derived drugs through plant cell fermentation. Commercializing several products including sweet potato seed, hybrid sweetcorn, speciality cornstarch, date palms, phytoflavours and a range of food ingredients.

Evergreen Scientific

2300 E 49th St, PO Box 58248, Los Angeles, CA 90058-0248.
Tel: 213 583 1331/800 421 6261
Fax: 213 581 2503

Manufactures disposable laboratory ware for biotechnology, industrial and clinical laboratories.

Exogene Corp

222 E. Huntingdon Dr. Ste. 11, Monrovia, CA 91016.
Tel: 818 303 3969

Produces a cell growth promoter for enhancing the production of cloned proteins in bacterial, yeast and mammalian cells.

Fermentation Engineering Inc

501 S. Parallel Ave., Ripon, CA 95366.
Tel: 209 599 7175 Fax: 209 599 2137

Develops integrated control systems for fermenters, including a portable CIP system and a closed eductor aeration and mixing system.

FHI Biologicals Inc

762 42nd Ave, San Francisco, CA 94121.
Tel: 415 668 9280 Fax: 415 751 8504

Supplies biochemicals and antigens including a wide range of serums, antisera, immunoglobulins, hormones (Human Chorionic Gonadotropin) and venoms.

Flying Horse International Inc

Bioproducts Division

762 42nd Ave, San Francisco, CA 94121.
Tel: 415 668 9280 Fax: 415 751 8504

Supplies serums including lyophilized serums, and antisera. Produces globulin from human and other animal sources. Supplies some brain powder such as rabbit brain powder, and snake venoms. Also offers custom services to individual specifications.

Furon

Fluid Handling Division

PO Box 4850, 33336 E La Palma Ave, Anaheim, CA 92803.
Tel: 714 772 3000/800 TEFLON 1 (835 5661)
Fax: 714 772 2073

Manufacture teflon products including small valves with low dead volumes giving a fast response.

Gen-Probe Inc

9880 Campus Point Drive, San Diego, CA 92121.
Tel: 619 546 8000/800 523 5001
Telex: 188912 Fax: 619 452 5848

Developing and marketing diagnostics using techniques of DNA/RNA hybridization for both radioactive (I-125) and non-radioactive based products, including tests for Legionella, Mycobacteria and Mycoplasma as well as sexually transmitted diseases and gastro-intestinal disorders. Also developing cancer diagnostics. Has interests in use of DNA probes for research and clinical treatment of genetic disorders, veterinary medicine, agricultural applications and environmental control. Carrying out research on AIDS vaccine.

Genelabs Inc

505 Penobscot Drive, Redwood City, CA 94603.
Tel: 510 369 9500 Fax: 510 368 0709

Developing AIDS therapeutics, cytokines and non-A and non-B hepatitis, solid phase blood testing. Formed Progene Partners, US with Proteus International, UK.

Genemed Biotechnologies Inc

458 Carlton Court, S. San Francisco, CA 94080.
Tel: 415 952 8193 Fax: 415 952 0447

Produces immunoassays for alpha-fetoprotein and TSH, DNA probe screening kits for papillomaviruses, CMV and EBV, and in-situ hybridization probes.

Genentech Inc

460 Point San Bruno Boulevard, S San Francisco, CA 94080.
Tel: 415 225 1000 Telex: 910 371 7186
Fax: 415 225 6000

Research and development company using genetic engineering techniques to produce therapeutic substances for human and veterinary use. Areas of interest include fibrinolytics, urokinase, human blood factors, growth hormones including human growth nerve factor, somatomedin, gonadotrophin, alpha and beta interferon, lymphokines including tumour necrosis factor, calcitonin, pro-insulin, renin, factor VIII, protropin HGH, activase TPA, anti-trypsin, human vaccines against herpes, AIDS and hepatitis, bovine interferons, animal growth hormones and vitamin C. Genentech's TPA is FDA approved for treating heart attacks. Have developed a recombinant cloning process for microbial polypeptide expression.

GeneSystems Computer Software

871 Partridge Ave, Menlo Park, CA 94025.
Tel: 415 325 4943 Fax: 415 325 4943

Produces software to create publication-quality restriction map drawings with Macintosh interface.

Genomym Corp

460 Point San Bruno Blvd., S. San Francisco, CA 94080.
Tel: 415 266 1844 Fax: 415 266 2739

Produces automated DNA sequencing equipment and associated reagents.

GenPharm International

2375 Garcia Ave, Mountain View, CA 94043.
Tel: 510 964 7024 Fax: 510 964 3537

Supply transgenic mice for carcinogenicity testing, with deficiency in cytotoxic T cells. Also developing therapeutic human proteins produced in transgenic species.

GENSET Corp

505 Coast Blvd South, La Jolla, CA 92037.
Tel: 619 551 65 51 Fax: 619 551 65 44

Develops and markets synthetic DNA and RNA as research, diagnostic and therapeutic tools. Offers large-scale DNA synthesis services (see GENSET, France).

Gensia Pharmaceuticals Inc

11025 Roselle St, San Diego, CA 92121.
Tel: 619 546 8300 Fax: 619 453 0095

Carrying out research and development of cardiovascular and cerebrovascular therapeutics.

Genta Inc

3550 General Atomics Crt., San Diego, CA 92121.
Tel: 619 455 2700 Fax: 619 455 2712

Produce therapeutics using antisense oligonucleotide technology, including therapeutics for cancer, methyl phosphonate monomers and bone marrow replacements for the treatment of leukemia.

Gilead Sciences

346 Lakeside Dr., Foster City, CA 94404.
Tel: 415 574 3000 Fax: 415 578 9264

Manufactures nucleotides and pharmaceuticals. Developing products for the treatment of cytomegalovirus, HIV and cardiovascular disease.

Granbio Inc

PO Box 1725, Temecula, CA 92390-1223.
Tel: 714 676 0049

Supplies reagents for complement testing, immunology and virology as well as diagnostics including AIDS tests.

GraphPad

10855 Sorrento Valley Rd, Suite 204B, San Diego, CA 92121.
Tel: 619 457 3909/800 388 4723
Fax: 619 457 8141

Supply intuitive software for science for data plotting, calculation and statistical analysis.

Haake/Fisons

24911 Avenue Stanford, Valencia, CA 91355.
Tel: 805 295 0019/800 551 8741
Telex: 4720130 Fax: 805 295 0419

Supplies a wide range of laboratory equipment.

Halpern Software Inc

San Jose, California.
Tel: 408 252 2038 Fax: 408 252 2038

Produce software for protein-structure modelling.

Hardy Media

205 W Montecito St, Santa Barbara, CA 93101.
Tel: 805 564 3474/800 266 2222

Supply culture media and equipment for cell culture.

Hewlett Packard Co

3495 Deer Creek Rd, Palo Alto, CA 94304.
Tel: 415 857 5731/800 227 9770
Telex: 348461 Fax: 415 857 8228

Analytical Group, 200 Parkside Drive, San Fernando, CA 91340-9976

Manufactures a wide range of chromatographic and radioactive counting equipment and accessories, as well as data acquisition, data reduction, control systems and computer graphics packages for use with laboratory instruments, including gas and liquid chromatographs. Software packages include inventory control, of interest to manufacturers of chemicals, pharmaceuticals, cosmetics and processed foods. These can maintain lot identification, analyse product histories and provide records of material consumption.

Hitachi Scientific Instruments

Nissei Sangyo America Ltd

460 E Middlefield Road, Mountain View, CA 94043.
Tel: 415 969 1100 Fax: 415 961 7259

25 W Watkins Mill Rd, Gaithersburg, MD 20878.
Tel: 301 840 1650 Fax: 301 963 0808

Supply electron microscopes (scanning and transmission).

Hitachi Scientific Instruments

3100 North First St, San Jose, CA 95134.
Tel: 408 432 0520/800 548 9001
Fax: 408 432 0704

Supply products for HPLC, fluorometry, spectrometry and ancillary equipment.

Hitachi Software Engineering America Ltd

1111 Bayhill Drive, Suite 395, San Bruno, CA 94066.
Tel: 800 624 6176 Fax: 415 615 7699

Products include databases of scientific literature: CD-Data; CD-Strains, scanners, digitizers, DNA sequencers and electrophoresis equipment, imaging equipment, image analyzers and associated software: MacDNASIS; PC DNASIS/PROSIS.

Hoefer Scientific Instruments

654 Minnesota St, PO Box 77387, San Francisco, CA 94107.
Tel: 415 282 2307/800 227 4750
Telex: 470778 Fax: 415 821 1081

Manufactures and supplies a complete line of electrophoresis equipment including both vertical and horizontal gel units, DNA sequencing gel units, power supplies, scanning densitometers and accessories, fluorometers and preparative electrophoresis instrumentation.

Hofmann & Co

2360 Autumn Dr, Oceanside, CA 92056.
Tel: 619 630 7828 Fax: 619 630 7828

Provides engineering services related to the scale-up of fermentation and cell/tissue culture systems for the production of biologicals, MABs and vaccines.

HTI Bio-Products Inc

PO Box 1319, Ramona, CA 92065.
Tel: 619 788 9691 Fax: 619 788 9694

Manufactures and distributes polyclonal, affinity purified and conjugated antibodies, including antisera to human immunoglobulins, serum proteins, hormones, infectious diseases and drugs of abuse. Provides custom service for production of polyclonal antisera, assay development and antibody conjugation and purification. Also offers contract preclinical testing service for novel human and veterinary health care compounds through a sister company HTI Bio-Services Inc.

Hybritech Inc

11095 Torreyana Rd, PO Box 269006, San Diego, CA 92126.
Tel: 619 455 6700/800 854 1957
Telex: 188974 Fax: 619 453 4124

Write to: PO Box 269006, San Diego, CA 92126

Research and development company marketing monoclonal antibodies for diagnostics kits in the following areas: insulin, hematopoietic growth hormone, prostatic cancer, heart disease, congenital defects, allergies, immune deficiencies and immunorelated diseases, pregnancy etc, based on monoclonal/antigen/tagged monoclonal sandwich assay. Developing a random access immunoassay system. Subsidiary of Eli Lilly, US.

Hycor Biomedical Inc

7272 W Chapman Ave, Garden Grove, CA 92641.
Tel: 714 895 9558/800 382 2527
Fax: 714 895 6920

Supply stains, reagents and controls for RIA, toxicology, bacteriology and serology as well as clinical test kits. Products include a system for standardisation of urinalysis, therapeutic drug monitoring, ligand, urine drugs of abuse controls

and calibrators, and on-site tests for drugs of abuse, serological test kits and radial immunodiffusion test kits.

Hygela Pharmaceuticals Inc

6555 Nancy Ridge Dr., San Diego, CA 92121.
Tel: 619 453 9393 Fax: 615 453 7477

Develops cancer therapeutics and diagnostics.

Hytech Biomedical Inc

1440 Fourth Street, Berkeley, CA 94710.
Tel: 415 527 9400

Markets biologicals, pharmaceuticals and diagnostics including monoclonal antibodies, immunodiagnostic kits and enzymes.

I/U Medi-Tech Inc

c/o Yamaichi Uni Ven Co Ltd, 333 S Hope St, Los Angeles, CA 90071.
Tel: 213 626 1064

Biotechnology joint venture consultants for US companies seeking strategic Japanese partners in biotechnology related business ventures.

IBRD

Institute for Biological Research & Development
2525 Campus Drive, Irvine, CA 92715.
Tel: 714 476 2729/800 358 0700
Fax: 714 752 7297

Provides worldwide clinical product development services ranging from early development consulting services, including regulatory consultation and strategy, negotiation of toxicology studies, through NDA/PLA filing for pharmaceutical and biotechnology industries.

ICL Scientific Inc

7272 Chapman Ave., Garden Grove, CA 92641.
Tel: 714 895 9558 Fax: 714 979 5018

Produces diagnostics for drugs of abuse and diagnostic reagents. A subsidiary of Hycor Biomedical.

ICN Biomedicals Inc

3300 Hyland Ave, Costa Mesa, CA 92626.
Tel: 714 545 0113/800 854 0530
Fax: 714 641 7216

Supply media for cell culture, serums, plastics, lab disposables, radiochemicals, immunobiologicals, biochemicals, gold colloids and conjugates, single and multi-channel pipettes, membrane filters, chromatographic adsorbents, immunoassay readers and immunodiagnostic instruments and reagents.

ICN Pharmaceuticals

ICN Plaza, 3300 Hyland Avenue, Costa Mesa, CA 92626.
Tel: 714 545 0100 Telex: 670413

Develop, manufacture and market ethical drugs, research chemicals, pharmaceuticals and related products. One of a group of health care companies which also includes Viratek Inc, SPI Pharmaceuticals Inc and ICN Biomedicals, all US. Products under development include antivirals for AIDS and AIDS-related diseases.

IDEC Pharmaceuticals Corp

291 N Bernardo Ave, Mountain View, CA 92037.
Tel: 510 940 1200

Carrying out idotype research, retrovirology, human T cell cloning, molecular biology and vaccine development.

Part II California — CA UNITED STATES OF AMERICA

Idetek Inc

1245 Reamwood Ave, Sunnyvale, CA 94089.
Tel: 408 745 0544/800 433 8351
Fax: 408 745 0243

Developing diagnostics and quality control test kits for food safety, animal health and environmental contaminants.

Immukok Inc

1019 Mark Avenue, Carpinteria, CA 93103.
Tel: 805 684 8717

Supplies immunodiagnostic products (Histostet, immunoperoxidase staining kits) for clinical and research use in the study of malignant and infectious diseases, and cancer in particular. Currently developing applications of antibodies, including monoclonal antibodies, for the rapid diagnosis of virus disease.

Immune Response Corp

5935 Darwin Court, Carlsbad, CA 92008.
Tel: 619 431 7080 Fax: 619 431 8636

Carrying out R&D on therapeutic vaccines against HIV, rheumatoid arthritis, multiple sclerosis, psoriasis and insulin-dependent diabetes; developing gene therapy and drug delivery products for hepatitis and cardiovascular disease.

Immunetech Pharmaceuticals

11045 Roselle St, Suite A, San Diego, CA 92121.
Tel: 619 438 7878 Telex: 754566
Fax: 619 452 7524

Producing immunologically active peptides as therapeutic agents.

Immuno Concepts Inc

9779 Business Park Drive, Sacramento, CA 95827.
Tel: 916 363 2649/800 251 5115
Fax: 916 363 2843

Produces in vitro diagnostics for autoimmune and infectious disease.

Immunopharmaceutics Inc

11011 Via Frontera, San Diego, CA 92127.
Tel: 619 451 8400 Fax: 619 451 0105

Develops therapeutics based on anti-idiotypic antibody technology for cardiovascular diseases.

Incyte Pharmaceuticals Inc

3330 Hillview Ave, Paulo Alto, CA 94304.
Tel: 415 855 0555 Fax: 415 855 0572

Developing human granule proteins for the treatment of inflammatory and degenerative diseases, including products for the prevention of endotoxic shock, recombinant protease nexin-1, recombinant IML-1 cell adhesion molecule for autoimmune diseases and transplantation.

Infergene Co

433 Industrial Way, Benicia, CA 94510.
Tel: 707 746 6804 Telex: 62899774
Fax: 707 746 0843

Producer of material and genetically engineered enzymes and other biochemicals for the food processing and medical diagnostics industries. Performs contract research in the genetic modification of microorganisms.

Innovative Sensors Inc

4745 E Bryson St, Anaheim, CA 92807.
Tel: 714 779 8781 Fax: 714 779 9315

Market pH sensors.

INOVA Diagnostics Inc

10451 Roselle St, San Diego, CA 92121.
Tel: 619 455 9495/800 545 9495
Fax: 619 455 0912

Supply serums, reagents, standards and controls for immunology and a number of clinical diagnostic test kits.

Inte Corp

PO Box 6145, San Rafael, CA 94903.
Tel: 415 491 0228 Telex: 650 2303657
Fax: 415 499 0967

Supplies immunoassay washer and microwell assay test strips.

IntelliGenetics Inc/Betagen

700 E El Camino Real, Mountain View, CA 94040.
Tel: 415 962 7300/ 800 876 994
Fax: 415 962 7302

Markets software for analysis and management of DNA and protein sequence information. Typical applications include structural predictions, motif determination, sequence alignments, DNA sequencing fragment assembly, database searching, site-directed mutagenesis, cloning simulation and probe design. Products are offered for use on IBM PC, Macintosh, Sun and VAX computer systems. A semi-automatic DNA sequence film reading and analysis device is also available. Offers its own databases: GeneSeq, a database of DNA and protein sequences appearing in patents; Keybank, a database of structural and functional patterns for protein and nucleic acid sequences and VectorBank, a cloning vector data bank, in addition to distribution of other public databases.

Interaction Chemicals Inc

1615 Plymouth Street, Mountain View, CA 94043.
Tel: 415 969 2400 Telex: 4946201
Fax: 415 969 0405

Supplies polymeric HPLC columns and packing materials. Columns include reversed-phase, ion, carbohydrate and biological. Solid phase extraction tubes are available also.

Interbio/Solmar Inc

625 W Katella Ave, Suite 5, Orange, CA 92667.
Tel: 714 538 0881 Fax: 714 538 9542

Supplies formulated bacterial products for the remediation of hazardous waste, contaminated soils and groundwater, and industrial and municipal wastewater.

International Biotechnology Suppliers Association

1070 Sixth Ave, Suite 307, Belmont, CA 94002.
Tel: 415 508 0118 Fax: 415 595 4864

Non-profit association for biotechnology suppliers, affiliates and professionals.

International Immunoassay Labs Inc

1900 Wyatt Drive, Suite 14, Santa Clara, CA 95054.
Tel: 408 727 1279/800 322 8678
Telex: 757576 iil Fax: 408 727 1260

Supply monoclonal antibodies, diagnostics, equipment for EIA and reagents for EIA and RIA.

International Immunology Corp

25549 Adams Avenue, Murrieta, CA 92362.
Tel: 909 677 5629/800 843 2853
Fax: 909 677 6752

Manufactures bulk reagents for immunodiagnostic applications. Supplying raw materials for manufacturers of diagnostic reagents. Developing polyclonal drug antisera and purified antibodies as well as controls and calibrators for diagnostic applications.

International Plant Research Institute

830 Bransten Road, San Carlos, CA 94070.
Tel: 415 595 5335 Fax: TWX: 910 376 5003

Research Laboratories: 853 Industrial Rd, San Carlos, CA 94070

Research and development organization using genetic manipulation and tissue culture to produce new, improved varieties of major crop plants, including date palms, oil palms and cereals, as well as investigating mechanisms and control of disease resistance. Attempting to modify structural and biochemical features that are present. Developing new technologies for producing chemicals from plant cell cultures. Subsidiary of Bio-Rad Laboratories, US.

International Remote Imaging Systems

IRIS

9162 Eton Avenue, Chatsworth, CA 91311-5805.
Tel: 818 709 1244/800 PRO IRIS
Fax: 818 700 9661

Supplies automated clinical urinalysis analyzers, reagents and controls.

InVitro International

Irvine, CA.

Produce macromolecular matrices which mimic living tissues for in vitro eye irritancy, skin and corrosivity testing.

InVitro Scientific Products Inc

2686 Johnson Ave, #202, Ventura, CA 93003.

Produces surface-activated PETG flasks for cell culture.

Invitrogen Corp

3985 B Sorrento Valley Rd, Suite 20, San Diego, CA 92121.
Tel: 619 597 6200/800 955 6288
Fax: 619 597 6201

Offer services in custom DNA sequencing and research and development. Produce cloning vectors, DNA markers and linkers, nucleases and reverse transcriptases.

Iotron Inc

3857 Birch St, No 521, Newport Beach, CA 92660.
Tel: 714 551 5477 Telex: 295603

Manufacture combination long life pH electrodes.

Irvine Analytical Laboratories Inc

1129 Grandview Drive, South San Francisco, CA 94080.

Tel: 415 794 1602 Fax: 415 794 1534

15375 Barranca Parkway, Building I, Suite 112, Irvine, CA 92718.

Tel: 714 727 3484 Fax: 714 727 3584

Provide chemical and microbiological analytical services to pharmaceutical, food and food product companies. Offer specific expertise in precise analysis of USP/EP monographs, accelerated stability studies, dissolution testing, vitamins, minerals and enzyme assays, nutrition labelling and pesticide residues. Microbiological services include:

antimicrobial preservative effectiveness, microbial limits, pathogen testing and challenge studies. Instrumentation includes GC, GC/MS, HPLC, AA, FTIR, UV spectroscopy and nitrogen analyzer.

Irvine Scientific

2511 Daimler Street, Santa Ana, CA 92705-5588.
Tel: 714 261 7800/800 437 5706
Telex: 681425 Fax: 714 261 6522

Supplies products for tissue culture. Also markets blood products and disposable laboratory ware.

ISIS Pharmaceuticals Inc

2292 Faraday Ave., Carlsbad, CA 92007.
Tel: 619 931 9200 Fax: 619 931 9639

Develops therapeutics based on antisense oligonucleotides for treatment of herpes, genital warts, human papilloma virus, cancer, AIDS, fungal infections, inflammation, arthritis and cardiovascular disease.

Ixsys Inc

3550 General Atomics Ct, Suite L-103, San Diego, CA 92121.
Tel: 619 455 2350 Fax: 619 455 2375

Developing novel antibody and peptide-based therapeutics for the treatment of cancer and infectious diseases.

J Brooks Laboratories Inc

11575 Sorrento Valley Rd, San Diego, CA 92121.
Tel: 619 755 3336 Fax: 619 755 7377

Manufactures protein-free and serum-free media for the production of MAbs and proteins, corneal research and bone marrow culture.

J L Shepherd & Associates

1010 Arroyo Avenue, San Fernando, CA 91340-1822.
Tel: 818 898 2361 Fax: 818 361 8095

Supply radiation research devices, blood product irradiators, gamma sterilization systems and gamma, beta, neutron radiation sources. Offer gamma irradiation testing and Cobalt-60 and Cesium-137 replacement sources.

J&W Scientific

91 Blue Ravine Rd, Folsom, CA 95639.
Tel: 916 985 7888 Fax: 916 985 1101

Manufacturer of capillary GC columns.

Jandel Scientific

65 Koch Rd, Corte Madera, CA 94925.
Tel: 415 924 8640 Telex: 4931977
Fax: 415 924 2850

Manufactures and markets microcomputer software products for research. Products include programs for: creating quality charts and graphs for scientific journal publication; performing one-step automated curve fitting; separating and analyzing multiple peak or functional form data; making two-dimensional measurements from strip charts, X-rays, photomicrographs etc on a digitizing tablet; performing video measurement and analysis including densitometry, automatic object counting, edge and line digitizing and morphometric measurements; creating three-dimensional computer models from serial sections.

Japan BioScience Ventures

2640 Del Mar Heights Road, No 267, Del Mar, CA-92014.
Tel: 619 793 0741 Fax: 619 793 0741

Offers consultancy services related to the development of strategic alliances between biotechnology companies in Japan and the United States.

JT Biotech USA Inc

c/o Mycogen Corp, 4960 Carroll Canyon Rd, San Diego, CA 92121.
Tel: 619 453 3519 Fax: 619 455 1848

c/o JT America Inc, 375 Park Ave, Suite 1307, New York, NY 10152.
Tel: 212 319 8990 Fax: 212 319 8993

Working with Mycogen Corp to develop environmentally friendly pesticide and bioherbicide which will be commercialized through a partnership of JT Biotech and Mycogen's subsidiary. A wholly owned-subsiary of Japan Tobacco Inc, a diversified company including agribusiness.

Kamiya Biomedical Co

822 Hampshire Rd, Unit C, Thousand Oaks, CA 91361.
Tel: 818 706 8564 Fax: 818 706 8763

Manufactures and distributes research biochemicals including enzyme inhibitors and monoclonal antibodies.

Karlan Research Products Corp

3343 Industrial Drive, Unit 9, Santa Rosa, CA 95403.
Tel: 707 576 1225 Telex: 910 344 7397
Fax: 707 576 1349

Supply biochemicals, enzymes, reagents and consumable products for clinical, diagnostic and research use. Offer custom synthesis.

Kelco

Division of Merck & Co Inc

8355 Aero Drive, PO Box 23576, San Diego, CA 92123.

Tel: 619 292 4900 Telex: 695228
Fax: 619 467 6520

Manufactures alginates, xanthan gums and gellan gum.

Keystone Laboratories Inc

1014 Hamilton Court, Menlo Park, CA 94025.
Tel: 415 853 3883/800 788 4362
Fax: 800 786 4362

Offer custom DNA synthesis, DNA and RNA oligonucleotides, protein/peptide conjugations and amino acid analysis.

Kinetic Systems Inc

3080 Raymond St, Santa Clara, CA 95054.
Tel: 408 727 7740 Fax: 408 727 9774

Manufactures piping for the biopharmaceutical industry.

Kirin-Amgen

c/o Amgen, 1900 Oak Terrace Lane, Thousand Oaks, CA 91320.
Tel: 805 499 5725

Joint venture set up to produce erythropoietin.

Kleiner Perkins Caufield & Byers

4 Embarcadero Center, Suite 3520, San Francisco, CA 94111.
Tel: 415 421 3110

Investment company associated with the formation of Hybritech Inc, US, Genentech Inc, US, Applied Biosystems Inc, US and Collagen Corp, US.

Klockner Filter Products Inc

8314 Tiogawoods Dr., Sacramento, CA 95828.
Supplies disposable centrifuge filters.

Kloehn Co Inc

242 Gemeni Ave, Brea, CA 92621.
Tel: 714 773 0313 Fax: 714 738 4307

Supply equipment and accessories for gas and liquid chromatography including HPLC.

Kompspin Technologies

2068 B Walsh Ave, Santa Clara, CA 95050.
Tel: 408 748 8669 Fax: 408 727 9351

Manufactures super lightweight, large volume, high G, carbon fibre composite centrifuge rotors.

Kronus Inc

PO Box 1075, Suite 312, Dana Point, CA 92629.
Tel: 714 248 0916/800 822 6999
Fax: 714 248 0919

Supply chromatography columns for gel filtration, ion exchange and HPLC as well as reagents for immunoassay, serums and clinical diagnostic test kits.

La Jolla Pharmaceutical Co

6455 Nancy Ridge Dr, San Diego, CA 92121.
Tel: 619 452 6600 Fax: 615 452 6893

Developing therapeutics for the treatment of antibody-mediated diseases, including systemic lupus, myasthenia gravis, Grave's disease and strokes.

Lawrence Livermore National Laboratory

Chromosome-Specific Physical Mappings Project
Biomedical Division, PO Box 808, L452,
Livermore, CA 94550.
Tel: 415 422 1100

Carries out research over a wide range of areas of molecular biology including the production of human chromosome gene libraries.

Lazar Research Laboratories Inc

920 N Formosa Ave, Los Angeles, CA 90046.
Tel: 213 384 6195/800 824 2066
Fax: 213 876 6216

Supplies biotechnology monitoring and control equipment, including a micro bioreactor for T-flasks and cell plates, perfusion apparatus, micro flow through electrodes for pH, oxygen, conductivity, specific ions and temperature.

Lee Biomolecular Research Laboratories Inc

11211 Sorrento Valley Road, Suite M, San Diego, CA 92121.
Tel: 619 452 7700 Fax: 619 452 7701

Manufactures mammalian interferons and anti-interferon serums, including sterile and lyophilized human, mouse and rabbit products for research purposes including polyclonal antibodies. Provides assay service on a contract basis for immunological characterization of interferons in culture media and body fluids. Carries out research in cell culture technology and on the development of diagnostics and vaccines.

Part II California — CA UNITED STATES OF AMERICA

LH Fermentation

3942 Trust Way, Hayward, CA 94545.
Tel: 510 786 0224 Fax: 510 786 0229

Supplies a complete line of laboratory and industrial fermentation equipment: incubators, shakers, high pressure cell disruptors, autoclavable laboratory reactors from 1 to 20 litres; pilot bioreactors from 10 to 80 litres, sterilizable in situ, for bacterial or mammalian cell culture; hollow fibre bioreactors; airlift bioreactors from 2.5 to 90 litres. Also provide industrial plants of several thousand litres.

Lidak Pharmaceuticals

11077 North Torrey Pines Road, La Jolla, CA 92017.
Tel: 619 558 0364 Fax: 619 453 5845

Manufacture rapid diagnostic test for non-protein bound free fatty acids, distributed by Molecular Probes Inc. Carry out antiviral and anticancer R&D. Currently developing clinical leads against lipid envelope viruses, including herpes, and large multivalent immunogen (LMI) technology for stimulation of cytotoxic T-lymphocytes against tumors. In addition, test agents (particularly anti-AIDS) in SCID (immune deficient) mice reconstituted with human tissue.

Ligand Pharmaceuticals Inc

9393 Towne Centre Drive, Suite 100, San Diego, CA 92121.
Tel: 619 535 3900 Fax: 619 535 3906

Drug discovery company specializing in therapeutics which interact with intracellular receptors.

Lightools Research

648 Poinsettia Park S, Encinitas, CA 92021.
Tel: 619 632 0677 Fax: 619 632 0778

Develops and manufactures computerised imaging and detection systems including the speedlight gel documentation system.

Link Analytical Inc

240 Twin Dolphin Drive, Suite D, Redwood City, CA 94065.
Tel: 415 595 5465 Fax: 415 595 5589

Manufactures spectrometers.

Liposome Technology Inc

1050 Hamilton Court, Menlo Park, CA 94025.
Tel: 415 323 9011 Fax: 415 323 9106

Engaged in the development of proprietary liposome and lipid-based products to treat life-threatening illnesses. Long-term goal is to commercialize injectable therapeutics for the hospital-based critical care market that will enhance the efficacy and reduce the toxicity of drugs to treat various diseases including cancer and infectious diseases.

List Biological Laboratories Inc

501-B Vandell Way, Campbell, CA 95008.
Tel: 408 866 6363

Produces bacterial toxins, including highly purified lipopolysaccharides (endotoxins) from a variety of gram negative organisms, hapten-conjugated lipopolysaccharides and exotoxins.

Litmus Concepts Inc

2981 Copper Rd, Santa Clara, CA 95051.
Tel: 408 245 5525 Fax: 408 245 3301

Developing diagnostics for female health care and infectious diseases.

LJL Associates Inc

473 Macara Ave, Suite 705, Sunnyvale, CA 94086.
Tel: 408 730 9687/9686 Fax: 408 730 9695

Undertake contract engineering and manufacturing of biotechnology instrumentation, from initial technical assessment through design, building and testing, prototype development, pilot runs and manufacturing. Offer expertise in product development of microprocessor-controlled medical, analytical and laboratory instruments and real-time process systems, analogue design and development, software, optics, physics, miniature fluid handling, industrial design and mechanical design.

LMD Laboratories Inc

2792 Loker Ave West, Suite 103, Carlsbad, CA 92008.
Tel: 619 929 0110 Fax: 619 929 0115

Develop and market serology kits and antigen detection kits for enteric diseases.

Lognis Inc

2330 Circadian Way, Santa Rosa, CA 95407.
Tel: 707 575 7155 Fax: 707 575 7833

Produces proteases, lipases, biocatalysts and chelating agents for waste treatment and bioremediation. A subsidiary of Henkel Group (Germany).

Lucky Biotech Corp

5915 Hollis St, Emeryville, CA 94608.
Tel: 510 653 0734 Fax: 510 653 5083

Products under development include therapeutics, interferons (alpha, beta, gamma), interleukin-2, hepatitis B diagnostics and porcine growth hormone. Subsidiary of Lucky Ltd, South Korea.

Lubrizol Agrigenetics

2050 Concourse Drive, San Jose, CA 95129-1818.
Tel: 408 433 9800 Telex: 501887
Fax: 408 433 5239

Uses advanced tissue culture techniques, genetic engineering and plant breeding to develop improved crop plants including corn, sunflower, rapeseed, sesame and others. Improvements include increased yield, disease and pest resistance, modified oil, starch, protein and stress-tolerance. A subsidiary of Lubrizol. (Formerly Sungene Technologies Corp).

MacConnell Research

11408 Sorrento Valley Rd, Suite 202, San Diego, CA 92121.
Tel: 619 452 2603 Fax: 619 452 6753

Manufactures laboratory instrumentation and reagents. Developing technology for mapping the human genome.

Mace

An Osmonics Company

2022 West 11th St, Upland, CA 91786.
Tel: 714 981 2770/800 334 2770
Fax: 714 981 8071

Supply pumps.

MarDx Diagnostics Inc

5919 Farnsworth Court, Carlsbad, CA 92008.
Tel: 619 929 0500/800 331 2291
Fax: 619 929 0124

Supply monoclonal antibodies, antigens, serums and reagents for EIA, immunodiffusion and bacteriology as well as a wide range of test kits for antibodies.

Mast Immunsystems Inc

630 Clyde Court, Mountain View, CA 94043.
Tel: 415 961 5501/800 272 6278
Fax: 415 969 2745

Develops, manufactures and markets chemiluminescent allergy analyzers, specific IgE test kits and total IgE test kits for allergy diagnosis.

MedClone

2435 Military Ave, Los Angeles, CA 90064.
Tel: 310 914 7861 Fax: 310 914 7865

Biopharmaceutical company carrying out R&D on disease specific therapies for human autoimmune disease based on idiotype regulation approach. Current research is focused on 'vaccine' and passive immunotherapies for Lupus Nephritis, Rheumatoid Arthritis and Type I Diabetes, using monoclonal antibodies.

MeDiCa Inc

2382 Camino Vida Roble, Suite 1, Carlsbad, CA 92009.
Tel: 619 438 1886 / 1 800 845 6496
Fax: 619 438 3171

Manufacture and market complete test kits (and their components) and custom tissue slides for the detection of autoantibodies in human sera by immunofluorescence. Distributor of monoclonal/polyclonal antibodies for Sanbio BV, Netherlands.

Medical Analysis Systems Inc

542 Flynn Rd, Camarillo, CA 93012.
Tel: 805 987 7891/800 582 3095
Telex: 910 336 1102 mas Fax: 805 987 6498

Supply reagents, standards and controls for clinical analysis as well as diagnostic test kits for blood protein, enzymes, cholesterol etc.

Medical Chemical Corp

1909 Centinela Ave, Santa Monica, CA 90404.
Tel: 310 829 4304 Fax: 213 453 1212

Supply antiseptics, buffers, laboratory chemicals, reagents, PVA fixative for parasitology, standards and controls for biotechnology and clinical sciences as well as diagnostic test kits for serum components and stains for bacteriology, cytology and histology.

Medix Biotech Inc

420 Lincoln Centre Drive, Foster City, CA 94404.
Tel: 415 573 3315 Telex: 1561412 mdxbio
Fax: 415 573 6734

Manufactures monoclonal and polyclonal antibodies, purified antigens, chromogens, hybridomas, markers, immunological reagents and EIA components and kits. Produces a wide range of quantitative and qualitative ELISA tests in microtitre well and other versions, including a rapid tests for hCG (urine) and Strep A. Custom services are available for solid phase immobilization, monoclonal antibody production.

Membrana Inc

7070 Commerce Circle, Pleasanton, CA 94566.
Tel: 415 846 8270 Telex: 171306

Supplies membrane filters.

Metabolex Inc

3876 Bay Center Place, Hayward, CA 94545.
Tel: 510 293 8800 Fax: 510 293 9090

Developing therapeutics for insulin resistance.

Metabolic Biosystems Inc

2450 Bayshore Pkwy., Mountain View, CA 94043.
Tel: 415 966 1550 Fax: 415 968 2438

Produces therapeutics for obesity and diabetes. A subsidiary of California Biotechnology Inc.

MetaChem Technologies Inc

3547 Voyager St, Bldg 102, Torrance, CA 90503-9927.
Tel: 310 793 2300

Supply chromatography systems for protein purification.

Metra Biosystems Inc

3181 Porter Dr., Palo Alto, CA 94304.
Tel: 415 494 9114 Fax: 415 494 9138

Develops diagnostics for bone metabolic diseases.

Micro-Filtration Systems

6800 Sierra Court, Dublin, CA 94568.
Tel: 415 828 6010 Telex: 171348

Produces wide range of filters, including both micro- and ultrafiltration membranes and glass-fibre filters. Part of Toyo Roshi International, Japan.

Microanalytic Research Inc

PO Box 7297, Laguna Beach, CA 92607-7297.

Supply monoclonal and polyclonal antibodies, reagents and standards for RIA, EIA and toxicology as well as clinical diagnostic test kits.

Microbio Resources Inc

6150 Lusk Blvd, Suite B105, San Diego, CA 92121.
Tel: 619 587 0600 Fax: 619 587 0603

Derives natural products from algae. Interests are focused on the use of natural carotenoids as nutritional supplements, food colorants and animal feed ingredients.

Microbiology Reference Lab

10703 Progress Way, Cypress, CA 90630.
Tel: 714 220 1900

Offers virology and serology testing services and produces retroviruses (HIV 1 & 2) and diagnostic testkits for Lyme's disease.

Microgenics Corp

2380A Bisso Lane, Concord, CA 94520.
Tel: 415 674 0667/800 23 CEDIA
Fax: 415 674 1680

Develops, manufactures and markets complete reagent systems for testing drugs of abuse, therapeutic drug monitoring, thyroid function and anaemia status. Assays are produced using recombinant DNA technology and can be run on automated clinical chemistry analyzers.

Microgon Inc

23152 Verdugo Drive, Laguna Hills, CA 92653.
Tel: 714 581 3880/800 654 0111
Fax: 714 855 6120

Manufactures and supplies disposable tangential flow microporous (MF) and ultrafiltrative (UF) membranes and system membranes, small volume modules for sterilization of tissue culture media, water and buffer solutions, and medical devices (on an OEM/contract basis).

MicroProbe Corp

7390 Lincoln Way, Garden Grove, CA 92641.
Tel: 714 894 7184 Fax: 714 891 1229

Produces DNA-probe based diagnostics for bacterial and viral infections.

Miltenyi Biotec

1250 Oakmead Park, Suite 210, Sunnyvale, CA 94088-3599.

Tel: 408 730 6838

Supply products and services for magnetic separation (see Miltenyi Biotec, Germany).

Miragen Inc

10655 Sorrento Valley Rd, San Diego, CA 92121.
Tel: 619 453 9777 Fax: 619 453 9836

Developing antibody-based genetic fingerprinting, identification kits.

MMR Technologies Inc

1400 Shoreline Rd, Suite A-5, Mountain View, CA 94043-1312.

Tel: 415 962 9620 Fax: 415 962 9647

Manufacture cold stage systems for use in scanning electron microscopes and optical microscopes.

Modesto City

Public Works Department

PO Box 642, Modesto, CA 95353.
Tel: 209 577 5300

Produces methane from anaerobic digestion of sewage sludge for use in modified city vehicles.

Molecular Applications Group

445 Sherman Ave (Suite T), Palo Alto, CA 94306.
Tel: 415 473 3030 Fax: 415 473 1795

Email: dov@mag.com.

Market a macromolecular graphics software package.

Molecular Arts Corp

1532 East Katella Ave, Anaheim, CA 92805.
Tel: 714 634 8100 Fax: 714 634 1999

Supply molecular modelling software.

Molecular Bio-Products Inc

10171 Pacific Mesa Blvd, Suite 307, San Diego, CA 92121.

Tel: 619 453 7551 Fax: 619 453 4367

Supply a range of presterilized, racked and ready-to-use aerosol resistant pipette tips to eliminate contamination during pipetting.

Molecular Biosystems Inc

10030 Barnes Canyon Rd, San Diego, CA 92121.
Tel: 619 452 0681 Fax: 619 452 6187

Manufacturing, research and development company working on in vivo diagnostic imaging agents for ultrasound, CT and MRI. Products include proprietary microspheres for contrast echocardiography, and contrast agents for MRI and CT scanning.

Molecular Design Ltd

2132 Farallon Drive, San Leandro, CA 94577.
Tel: 510 895 1313/ 800 635 0064
Telex: 470631 Fax: 510 352 2870

Supplies software for molecular structure comparisons allowing the user to manipulate two 3-dimensional molecular models on the screen of a computer graphics terminal in order to compare their geometric and topographic features. Also offers a chemical database management software system that can store, search, retrieve and display molecules and chemical reactions.

Molecular Devices Corp

Menlo Oaks Corporate Center, 4700 Bohannon Drive, Menlo Park, CA 94025.

Tel: 415 322 4700/800 635 5577

Telex: 6716637 mole Fax: 415 322 2069

Manufacture microplate readers for measuring contaminants in biopharmaceuticals at the picogram level and microphysiometers for monitoring receptor-mediated responses of living cells under non-invasive conditions.

Molecular Dynamics

880 East Arques Ave, Sunnyvale, CA 94086.

Tel: 408 773 1222/800 788 0634

Fax: 408 773 8343

Manufacture densitometers, image analyzers and associated software and autoradiography equipment. Products include: a computing densitometer using a high speed laser for fast, high resolution scanning of samples up to 35cm x 42cm with quantitative data system for correction of film non-linearity; a phosphorimager for radioisotopes which eliminates the need for film in autoradiography except for tritium; a confocal scanning laser microscope designed for high resolution 1D and 3D reconstruction.

Monoclonal Antibodies Inc

995 Benicia Ave, Sunnyvale, CA 94086.

Tel: 408 739 2700 Fax: 408 736 8818

Focusing on the application of monoclonal and polyclonal antibodies for the development and marketing of non-instrument diagnostic test kits with applications in areas of fertility and infectious disease.

Montgomery Watson Americas Inc

300 North Lake Avenue, Suite 1200, Pasadena, California.

Tel: 818 796 9141 Fax: 818 568 6619

Consulting engineers offering services in all aspects of water and wastewater treatment and management, pollution control, environmental management and solid waste disposal.

Moss Inc

11 Rock Wren, Irvine, CA 92714.

Tel: 714 552 1652

Supply substrate for ELISA tests.

Mycogen Corporation

5451 Oberlin Drive, San Diego, CA 92121.

Tel: 619 453 8030/800 745 7476

Fax: 619 453 1053

Developing biopesticides including products based on the biotoxin of *Bacillus thuringiensis* packaged, using genetic engineering techniques, inside *Pseudomonas* as a means of increasing efficacy of the pesticide. Also developing herbicides, based on pathogenic fungi, for control of sicklepod and velvet leaf.

Marrow-Tech Inc

10933 N. Torrey Pines Rd., La Jolla, CA 92037.

Tel: 619 450 5730 Fax: 619 450 5703

Developing replication systems for bone marrow cells, skin and liver via 3D matrix system. Produces therapeutics, diagnostics and artificial skin for toxicological testing.

Part II California — CA UNITED STATES OF AMERICA

Nakanishi International Enterprises

Plant Tissue Culture Laboratory
529 East Third Avenue, San Mateo, CA 94401.
Tel: 415 348 4240

Carries out research and development in relation to propagation of rare, exotic, endangered or under-utilized plant species and food crops. Areas of research include tissue culture, micropropagation and protoplast fusion. Offers contract and consultancy services.

Nanometrics Inc

690 E Arques Ave, Sunnyvale, CA 94086.
Tel: 408 746 1600 Telex: 171119

Produce a general purpose scanning electron microscope designed for non-destructive analysis at low acceleration voltages and capable of being used with uncoated specimens at 1 keV or less without damage.

Neocrin Co

1202 E Wakeham Ave, Santa Ana, CA 92705.
Tel: 714 541 1606 Fax: 714 541 5423

Developing an artificial pancreas for treatment of diabetes (type I).

NESLAB Instruments Inc

6747 Sierra Court, Suite F, Dublin, CA 94568.
Tel: 510 829 1660/800 423 7831
Fax: 510 829 1798

Manufacturer of constant temperature bath/circulators, immersion coolers, personal freezers and recirculating chillers.

Neurex

3760 Haven Ave, Menlo Park, CA 94025.
Tel: 415 853 1500 Fax: 415 853 1538

Develop new therapeutics which modulate the activities of the central and peripheral nervous system by regulating nerve cell communication. The company's proprietary neuromodulation technology focuses on methods to selectively block different classes of neuron specific calcium channels and thereby regulate the release of specific neurotransmitters. Developing compounds for treatment of brain damage following ischemia, and various neurological and psychiatric disorders, including gastrointestinal and cardiovascular diseases.

Neushul Mariculture Inc

475 Kellogg Way, Goleta, CA 93117.
Tel: 805 964 5844 Fax: 805 964 0045

Areas of activity include development of marine pharmaceutical products, marine farm structures, supply of algal and molluscan cultures and marine habitat remediation and restoration.

Nichols Institute Reference Laboratories

33608 Ortega Hwy, San Juan Capistrano, CA 92690.
Tel: 714 728 4000/800 NICHOLS
Fax: 714 728 4957

Offers testing services in endocrinology, oncology, immunology, toxicology, molecular biology and genetics.

NIE Plant Tissue Culture Laboratory

529 E 3rd Ave, San Mateo, CA 94401.
Tel: 415 348 4240

Contract service laboratory. Carry out micropropagation of ornamental and horticultural plants.

NMS Diagnostics

1533 Monrovia Ave, Newport Beach, CA 92663.
Tel: 714 645 2111/800 854 3002

Produce immunodiagnostic kits and reagents.

Nordic Immunological Laboratories (USA)

Drawer 2517, Capistrano Beach, CA 92624.
Tel: 714 498 4467/800 554 6655
Telex: 213969 nlab Fax: 714 361 0138

Supplies reagents for immunodiffusion, immunofluorescence and other immunodiagnostic techniques including monoclonal antibodies and various antisera.

Nouvas Bio/Medical Automation

17781 Cowan St, Irvine, CA 92714.

Manufactures an automated laboratory dispenser which can handle a range of different reagents in nanolitre volumes and is suitable for use with DNA probes, enzymes and liposomes.

Novex

Novel Experimental Technology
4202 Sorrento Valley Blvd, Suite J, San Diego, CA 92121.
Tel: 619 452 6634 Telex: 910 2402482
Fax: 619 452 6635

PO Box 1158, Encinitas, CA 92024

Supply mini-electrophoretic equipment, pre-cast gels for PAGE, mini-blot system and blot cutter.

Novo Nordisk Biotech Inc

1445 Drew Ave, Davis, CA 95616.
Tel: 203 790 2600 Fax: 203 790 2748

Marketing organization in US for industrial enzymes. Parent company is Novo Nordisk AS, formed by merger of Novo Industri and Nordisk Genofte, Denmark.

Novo Nordisk Entotech Inc

1497 Drew Ave, Davis, CA 95616-4880.
Tel: 916 757 4700 Fax: 916 758 4789

Nuclepore Corp

7035 Commerce Circle, Pleasanton, CA 94566-3294.
Tel: 415 463 2530/800 882 7711
Telex: 3719645 nuclepore Fax: 415 463 2029

Manufactures equipment, accessories and membranes for microfiltration.

Nuro Corp

2020 Lundy Ave, San Jose, CA 95131.
Tel: 408 433 0400 Fax: 408 452 4531

Manufactures peptides and peptide-based immunodiagnostic products. Also offers custom peptide synthesis service.

Omni-Tech Inc

1716 Ocean Park Blvd, Santa Monica, CA 90405.
Tel: 213 450 7575

Supply custom labware, stains and standards as well as clinical test kits.

Oncquest Inc

3520 Dunhill St, San Diego, CA 92121.
Tel: 619 455 6452 Fax: 619 546 5888

Offers laboratory reference and research services related to oncology and genetics. A division of Speciality Laboratories Inc.

One Lambda Inc

21001 Kittridge St, Canoga Park, CA 91303-2801.
Tel: 818 702 0042/800 822 8824
Telex: 1LAMBDA Fax: 818 702 6904

Manufactures a series of reagents and automation for HLA testing including: tissue typing trays for identification of HLA Class I and Class II antigens; cell trays suitable for HLA antibody screening and identification; lymphocyte isolation reagents for rapid isolation of mononuclear, T, T/B, or B lymphocyte populations; equipment for dispensing and plating; a range of scan equipment from basic to fully automated fluorescence systems.

Onyx Pharmaceuticals

3031 Research Dr, Bldg A, Richmond, CA 94806.
Tel: 510 222 9700 Fax: 510 222 9758

Produces cancer therapeutics.

Operon Technologies Inc

1000 Atlantic Ave, Suite 108, Alameda, CA 94501.
Tel: 510 865 8644/800 68 2248
Fax: 510 865 5255

Offers custom services in the manufacture of synthetic DNA.

Oracle Diagnostics Inc

366-B Lakeside Dr, Foster City, CA 94404.
Tel: 415 574 4800 Fax: 415 574 3215

Develops and manufactures reagents for in vitro diagnostics and non-invasive test-kits.

Oxford Molecular Inc

744 San Antonio Rd, Suite 27, Palo Alto, CA 94303.
Tel: 415 494 6274 Fax: 415 494 7140

Offers a wide range of molecular science software (see Oxford Molecular, UK).

P E Nelson

10040 Bubb Road, Cupertino, CA 95014.
Tel: 408 725 1107 Fax: 408 725 0825

Supplies chromatographic data systems for PCs, minicomputers and workstations and computer software packages developed for use with chromatography and laboratory management information (LIMS).

PAA Laboratories Inc

2531 Petaluma Ave, Long Beach, CA 90815.
Tel: 310 430 9297 Fax: 310 982 1432

Supply cell and tissue culture media.

Pacific Bio-Marine Labs Inc

PO Box 1348, Venice, CA 90294-1348.
Tel: 310 677 1056 Fax: 310 677 1207

Supplies tissue, blood and serum from sharks, other fish and marine invertebrates for use in biochemical and immunochemical research.

Pacific Biotech Inc

9050 Camino Santa Fe, San Diego, CA 92121.
Tel: 619 695 2688/800 225 0730
Telex: 3719685 pac bio Fax: 619 695 3408

Manufacture monoclonal and polyclonal antibodies, antigens, reagents, standards and controls for EIA, bacteriology and serology as well as clinical test kits for Strep A, Strep B, Infectious Mononucleosis, Chlamydia, and pregnancy.

Pacific Gas & Electric Company

77 Beale Street, San Francisco, CA 94106.
Tel: 415 972 7000

Recovering and treating biogas obtained from shallow landfills. Gas is scrubbed, compressed and injected into company's transmission lines.

Pacific Hemostasis

2493 Portola Rd, Ventura, CA 93003.
Tel: 805 644 0848/800 292 5160
Fax: 805 644 4635

Supply chromagenic substrates, blood processing systems and diagnostics.

Paedia Corp

499 Carolina St, San Francisco, CA 94107.
Tel: 415 861 8097 Fax: 415 861 6683

Supply densitometry software for analysis of data from electrophoretic separations from stained gels, blots and films.

Pantex

1737 21st St, Santa Monica, CA 90404.
Tel: 213 828 7423/800 421 6529
Telex: 652412 Fax: 213 829 9032

Supply reagents for RIA and test kits.

Pantox Corp

4622 Santa Fe St, San Diego, CA 92109.
Tel: 619 272 3885 Fax: 619 272 1621

Offers a diagnostic testing service for human antioxidant defence systems.

Park Scientific Instruments Inc

1171 Borregas Ave, Sunnyvale, CA 94049.
Tel: 408 747 1600 Fax: 408 747 1601

Supply microscopes including X-ray contact/scanning equipment with high resolution imaging.

Peaceful Valley Farm Supply

PO Box 2209, Grass Valley, CA 95945.
Tel: 916 272 4769 Fax: 916 273 0326

Supply a wide range of products for organic growers including fertilizers, biological pest controls, beneficial insects, inoculants and natural feeds.



Peninsula Laboratories Inc

611 Taylor Way, Belmont, CA 94002-4041.
Tel: 415 592 5392/800 922 1516
Fax: 415 595 4071

Offers a comprehensive line of biologically-active peptides, enzyme substrates and inhibitors, peptide antisera, nucleic acids, isolated protein hormones, resins and reagents. Custom services such as peptide and nucleotide synthesis antibody production, HF treatment, conjugation and isotope labelling are provided. Has been granted a FDA Biologics Establishment and Product Licence.

Peptide Laboratory Inc

PO Box 8300, Berkeley, CA 94707.
Tel: 510 262 0800 Fax: 510 262 9127

Supply CAT, DAS and Dasrin-3 resins for Fmoc-solid phase peptide synthesis of carboxylamide peptides, protected peptides, and

general peptide synthesis, respectively. Stock synthetic peptides and offer custom/contract production of synthetic peptides.

Perkin Elmer Corp

Process Analytical Instruments

2771 North Garey Ave, Pomona, CA 91767.
Tel: 909 593 3581 Fax: 909 596 2301

Produces on-line process mass spectrometers for monitoring fermentation reactions. Capable of monitoring up to 16 components simultaneously in less than 10 seconds and handling inputs from up to 50 fermenters on a sequential basis to determine the levels of oxygen, carbon dioxide and others.

Perkin-Elmer Corporation

Applied Biosystems Division

850 Lincoln Centre Drive, Foster City, CA 94404.
Tel: 415 570 6667 Fax: 415 572 2743

Manufactures a comprehensive range of systems for PCR amplification, nucleic acid synthesis, genetic analysis, protein sequencing and peptide synthesis, amino acid analysis, liquid chromatography, capillary electrophoresis and UV/VIS and fluorescence spectroscopy. Also manufactures instrumentation for spectroscopy, chromatography and thermal and elemental analysis. Products include: complete systems for GC and GC-MS; LC, HPLC and LC-MS; AA, ICP and ICP-MS spectrometry; FT-IR, UV/VIS and fluorescence spectroscopy.

Pharmacia LKB Instruments Inc

3333 Vincent Rd, Pleasant Hill, CA 94523.
Tel: 800 421 0572 Telex: 89682

Specializes in instruments for biomedical research and separation of macromolecules by chromatographic and electrophoretic methods as well as for detection and counting of radioactive samples. Also produces equipment for ultra microtomy. Supplies bioluminescence reagents and culture media.

PharMingen

10975 Torreyana Rd, San Diego, CA 92121.
Tel: 619 792 5730 Fax: 619 792 5238

Customer svc: 800 848 6227 Tech support: 800 825 5832.

Primary supplier of monoclonal antibodies against mouse, rat and human cell surface antigens and adhesion molecules. Other product lines include monoclonal antibodies and recombinant proteins for mouse and human cytokine quantitation, tumour suppression research and cell cycle analysis. Also supplies monoclonal antibodies specific to mouse, rat and human immunoglobulins as well as mouse, rat and hamster isotype controls, polyclonal second step reagents and avidin/streptavidin conjugates. Reagents for molecular biology include a full line of baculovirus DNA, transfer vectors, insect cells, agarose and insect cell media. New products include: truncated GST fusion proteins for signal transduction research, antibodies for neuroscience; microparticles for flow cytometer calibration; an antigen unmasking system for paraffin/cryostat sections and cytological specimens; no azide/low endotoxin (NA/LE) antibodies for functional applications; ligation independent cloning (LIC) products for cloning of PCR amplified genes without ligation or endonuclease digestion using the mammalian (pCMV-LIC), bacterial (pPMG-LIC) or insect (pAcSG2-LIC) systems.

Phenomenex Inc

2320 W 205th St, Torrance, CA 90501.
Tel: 213 212 0555 Fax: 213 328 7768

Produce a wide range of chromatography equipment including ultra-high efficiency HPLC columns, affinity chromatography activated and immobilized supports, products for ion exchange, fraction collectors and sampling systems.

Phortech International

2844 Wemberly Dr, Belmont, CA 94002.
Tel: 415 594 0785 Fax: 414 594 9846

Produce technology assessment and market research studies related to the life sciences. Developing distributor, customer and product usage databases.

Phytogen Inc

101 Waverly Drive, Pasadena, CA 91105.
Tel: 818 792 1802 Fax: 818 792 0823

Research and development company using recombinant DNA technology and tissue culture for improvement of cotton in respect of disease and pest resistance.

Phytopharmaceuticals Inc

830 Bransten Rd, San Carlos, CA 94070.
Tel: 415 595 5335 Fax: 415 595 4332

Manufactures novel pharmaceuticals based on botanical compounds.

Pickering Laboratories Inc

1951 Colony St, Suite S, Mountain View, CA 94043.
Tel: 415 968 9502 Fax: 415 968 0749

Supply odour-free reagent for post-column analyses of amino acids, carbamate pesticides and glyphosate herbicide.

Plant Cell Research Institute Inc

6560 Trinity Court, Dublin, CA 94568.
Tel: 415 833 3400 Fax: 415 833 3409

Undertake contract research and development in molecular biology for plant improvement. Developing improved quality crop plants and resistance to herbicides and pesticides.

Plant Genetics Inc

1920 Fifth Street, Davis, CA 95616.
Tel: 916 753 1400 Telex: 882409 plantgen
Fax: 916 753 6199

Research and development company engaged in production of improved commercial crop plants and seeds, including potatoes, hybrid vegetables (eg tomato, lettuce) and alfalfa. Wholly-owned subsidiary of Calgene, US.

Poretics Corp

111 A Lindbergh Ave, Livermore, CA 94550-9520.
Tel: 510 373 0500/800 922 6090
Fax: 510 373 1725

Manufacture filters and other filtration equipment.

Precision Dynamics Corp

13880 Del Sur St, San Fernando, CA 91340.
Tel: 818 897 1111/800 847 0670
Telex: 240055 pdc Fax: 818 899 4045

Supply culture media and equipment for cell biology and histology. Offer information services.

Part II California — CA UNITED STATES OF AMERICA

Princeton/Montrose Partners

2331 Honolulu Ave, Suite G, Montrose, CA 91020.
Tel: 818 957 3623

Investment company with interests in: Sungen Technologies Corp, Protein Database Inc, Neogen Corp, Plant Genetics Inc and Twyford International Inc, all US.

Protein Design Labs Inc

2375 Garcia Avenue, Mountain View, CA 94043.
Tel: 415 903 3700 Fax: 415 903 3730

Manufacture therapeutic proteins for prevention of organ transplant rejection and the treatment of human diseases including immunotoxins for the treatment of autoimmune disease and cancer.

Protein Polymer Technologies Inc

10655 Sorrento Valley Rd, San Diego, CA 92121.
Tel: 619 558 6064/800 755 0407
Fax: 619 558 6477

Produce genetically engineered proteins for research. Products include a substrate for receptor-specific mammalian cell attachment.

Protos Immunoresearch

1485 Bayshore Blvd, #135, San Francisco, CA 94124.
Tel: 415 467 3344 Fax: 415 467 4029

Produces the following immunological reagents: affinity purified antibodies, F(ab')₂ fragments, FITC, rhodamine, Texas red, biotin, peroxidase and alkaline phosphatase conjugates; Fab'-peroxidase conjugates for immunohistochemistry; purified human immunoglobulins and human thyroxine binding globulin.

Prozyme Inc

1231 Cabrillo St, El Cerrito, CA 94530-2432.
Tel: 510 215 7859 Fax: 510 215 7963

Using molecular biology and genetic techniques to manufacture and supply value added proteins and enzymes for diagnostics and research. Products include: streptavidin, microbial alkaline phosphatase, beta-galactosidase, phycobiliproteins, enzyme conjugates, cleavage proteases and protein separation standards.

QED Monoclonal

11011 Via Frontera, San Diego, CA 92127.
Tel: 619 451 8400 Fax: 619 451 0105

Produces monoclonal antibodies to therapeutics, infectious disease agents, serum proteins, enzymes and enzyme inhibitors. Also offers services in protein crystallography and determination of the hypervariable regions of antibodies. A subsidiary of ImmunoPharmaceutics Inc.

Qiagen Inc

9259 Eton Ave, Chatsworth, CA 91311.
Tel: 818 718 9870/800 426 8157
Fax: 818 718 2056

Supply kits for rapid nucleic acid purification such as for plasmid DNA, Lambda DNA, M13 DNA, Genomic DNA, PCR products, and kits for protein expression and purification.

Quantimetrix Corp

4955 West 145th St, Hawthorne, CA 90250-6703.
Tel: 310 644 4434/800 624 8380
Telex: 3785968 xqu Fax: 310 644 6603

Supply controls, standards, reagent test kits and electrophoresis systems for the clinical laboratory.

Quiagen Inc

9259 Eton Ave, Chatsworth, CA 91311.

Manufacture a microtitration system for the purification of double-stranded DNA templates for fluorescence sequencing.

Quidel Inc

10165 McKellar Court, San Diego, CA 92121.
Tel: 619 552 1100/800 874 1517/800 228 7704 CA
Fax: 619 546 8955

Specializes in diagnostic assays for pregnancy, fertility, Strep B, allergies and autoimmune diseases. Also offers a variety of research reagents such as monoclonal antibodies.

R G Hansen

631 Chapala Street, Santa Barbara, CA 93101.
Tel: 805 564 3388 Fax: 805 963 0733

Designs and manufactures a variety of cryogenic systems, accessories and components to support tissue and specimen cooling over the temperature range of 4 to 300 Kelvin. Offers standard and custom design systems.

R Shadel Inc

1684 Hudson Ave, San Francisco, CA 94124.
Tel: 415 648 6806 Fax: 415 648 2139

Manufactures horizontal gel rigs, radiation shields and other electrophoresis accessories.

Radioassay Systems Laboratories/Immchem

3300 Hyland Ave, Costa Mesa, CA 92626.
Tel: 714 545 0113/800 421 2112
Telex: 685580 Fax: 714 557 4872

Supplies radioimmunoassay kits and other diagnostics for in vitro determination of hormone levels. Division of ICN Biomedicals Inc.

Radnoti Glass Technology Inc

227 West Maple Ave, Monrovia, CA 91016.
Tel: 818 357 8827/800 428 1416
Fax: 818 303 2998

Manufacturer of scientific glass instruments for biomedical and biochemical applications.

Reactor Experiments Inc

1275 Hammerwood Ave, Sunnyvale, CA 94089-2231.
Tel: 408 745 6770 Fax: 408 745 7013

Manufacture shielding systems for protection from radiation such as X-rays, neutrons, radionuclides and accelerators including portable radionuclide carriers, door and wall shielding.

Reagents Applications Inc

8225 Mercury Court, San Diego, CA 92111.
Tel: 619 569 8009/800 438 6100
Fax: 619 569 6208

Produces diagnostic reagents and test kits for various clinical and laboratory tests, including triglycerides, albumin, cholesterol, glucose, protein, uric acid, enzymes etc, based on enzymatic UV and colorimetric assays.

Research and Diagnostic Antibodies

PO Box 8300, Berkeley, CA 94707.
Tel: 510 262 9000 Fax: 510 262 9127

Develop immunoassays based on synthetic peptides. Products include RIA kits for atrial natriuretic polypeptide, vasoactive intestinal peptide, hypercalcemia malignancy peptide, corticotrophin releasing factor, endothelins and insulin-like growth factor 1 and 2, histochemical grade antisera for protein kinase C isozymes and IFA kits for protein kinase C isozymes.

Research Information Systems Inc

Camino Corporate Center, 2355 Camino Vida Roble, Carlsbad, CA 92009.
Tel: 619 438 5526/800 722 1227
Fax: 619 438 5573

Develop and market scientific information management software.

Rheodyne Inc

PO Box 996, Cotati, CA 94928.
Tel: 707 664 9050 Telex: 172992
Fax: 707 664 8739

Manufactures analytical apparatus including high performance liquid chromatography accessories including microbore sample injection systems capable of delivering samples of 0.2, 0.5 or 1.0 microlitre.

Ribogene Inc

21375 Cabot Blvd, Hayward, CA 94545.
Tel: 510 732 5551 Fax: 510 732 7741

Developing proprietary instruments and reagents for cell-free protein synthesis.

Richard Scientific Inc

250 Bel Marin Keys Blvd, Suite D3, Novato, CA 94949.
Tel: 415 883 2888 Fax: 415 382 1922

Speciality company in the field of analytical, preparative and process scale liquid chromatography, and supercritical fluid extraction (SFE). Supplies complete systems or ancillary components including pumps, detectors, injectors, columns, low pressure and high performance packings including normal phase, reversed phase, ion exchange, SEC and affinity supports. Also provides a custom column packing service.

Riese Enterprises

PO Box 9523, San Jose, CA 95157-0523.
Tel: 415 968 2922/800 345 2267
Fax: 415 965 2660

Produce infectious waste disposal systems for use with biohazardous microbial products. Also manufacture flow cytometry controls for immunology - DNA cytometry.

Robbins Scientific Corp

814 San Aleso Ave, Sunnyvale, CA 94086.
Tel: 415 734 8500 Fax: 415 734 0300

Manufactures precision equipment and plastic disposables for the HLA and molecular biology markets. Principal products include a line of incubators for processing hybridization membranes and an automated 96 channel microdispenser for molecular biology and drug development. Also manufactures a selection of speciality tubes and tips for PCR, including thin wall tubes, filter tips and nucleic acid recovery tubes; serological trays for tissue typing; an automated microscope for tray reading and management of transplantation patient data; a complete line of general purpose pipette tips, microcentrifuge tubes and other liquid handling products.

Ropak Laboratories

16632 Milliken Avenue, Irvine, CA 92714.
Tel: 714 851 8356 Fax: 714 851 0563

Have developed and market an in vitro test system as an alternative to in vivo testing procedures involving a highly ordered macromolecular matrix that mimics corneal and conjunctival responses to irritancy.

Rosemount Analytical Inc

2400 Barranca Rd, Irvine, CA 92714.
Tel: 714 863 1181/800 854 8257
Fax: 714 474 7250

Manufacture pH electrodes and accessories as well as ion selective electrodes.

Ruth Langhorst International Marketing

7514 Grand Ave, Suite 1-411, La Jolla, CA 92037.
Tel: 619 457 1573 Fax: 619 456 0810

Distributor for BioLog Life Science Institute, Germany custom peptide synthesis products.

Sagian Inc

PO Box 5036, Concord, CA 94524.
Tel: 800 352 4975 Fax: 510 685 1668

Offers engineering services related to the scale-up of automated systems for the production of antibiotics, specialty chemicals, enzymes and MABs.

Salk Institute Biotechnology Industrial Associates Inc

SIBIA
505 Coast Boulevard South, Suite 300, La Jolla, CA 92037.
Tel: 619 452 5892/619 452 4101
Telex: 697196 Fax: 619 452 9279

Established to make practical use of results of basic research being carried out at Salk Institute, US in areas of yeast molecular cell biology, novel bioreactors, recombinant DNA technology, gene regulation and gene transfer using microinjection techniques and retrovirus vectors. A major part of this research is carried out under contract to Phillips Petroleum Co, US. Also developing growth hormones in conjunction with Sumitomo, Japan, and non-isotopic DNA probe diagnostics for oncogene products in collaboration with Skandigen AB, Sweden.

Salk Institute for Biological Studies

Molecular Biology and Virology Laboratory
PO Box 85800, San Diego, CA 92186-5800.
Tel: 619 453 4100 Fax: 619 457 4765

Investigating mechanisms of gene regulation and cell growth control.

Salutar Inc

428 Oakmead Parkway, Sunnyvale, CA 94086.
Tel: 408 732 1771 Telex: 330240
Fax: 408 738 0998

Develop and produce in vivo diagnostics for magnetic resonance imaging.

San Diego State University

Molecular Biology Institute
San Diego, CA 92182.
Tel: 619 594 7429 Fax: 619 594 5676

Offers educational programmes in recombinant DNA technology, cell and molecular biology and biochemistry (BS, MS, PhD). Conducts the California State University Program for Education and Research in Biotechnology (CSUPERB).

SangStat Medical Corp

1505-B Adams Drive, Menlo Park, CA 94025.
Tel: 415 328 0300 Fax: 415 328 8892

Manufactures rapid, instrument-free tests based on membrane and synthetic peptide technology including an EIA kit for qualitative detection of IgG antibodies to cytomegalovirus in human serum or plasma specimens.

Sartorius Filters Inc

30940 San Clemente St, Hayward, CA 94544.
Tel: 415 487 8220/800 227 2842
Telex: 338534

Manufactures controlled porosity membrane filters and associated hardware.

Scantibodies Laboratory Inc

9336 Abraham Way, Santee, CA 92071.
Tel: 619 258 9300 Telex: 695205 scantibodi
Fax: 619 258 9366

Producer of bulk reagents for medical diagnostic kit manufactures. Product range includes normal human serum free of analytes (hormones and other proteins) for RIA and EIA test kits, normal human serum for chemistry controls, purified serum protein antigens, polyclonal and monoclonal antibodies against human serum proteins and infectious agents, heterophilic blocking reagent, and second antibodies.

Sci-Clone Inc

9036 Caminito Vera, San Diego, CA 92126.
Tel: 619 566 7339

Produces murine MABs, human MABs and fusion partners for production of human MABs.

SciClone Pharmaceuticals Inc

901 Mariner's Island Blvd, San Mateo, CA 94404.
Tel: 415 358 3456 Fax: 415 358 3469

Develops and markets pharmaceuticals internationally.

Scios Nova Inc

2450 Bayshore Parkway, Mountain View, CA 94043.
Tel: 415 966 1550 Telex: 288961 cbi ur
Fax: 415 968 2438

A biopharmaceutical company engaged in the discovery, development and commercialization of novel human therapeutics. R&D efforts are focused on the treatment of acute illnesses, primarily in the areas of cardio-renal disease and inflammation. The company is also collaborating with corporate partners in the development of basic fibroblast growth factor (BFGF), insulinotropin and therapies for Alzheimer's disease. The company's drug discovery technology encompasses both biotechnology techniques and small molecule design to develop biopharmaceutical products.

Scripps Institution of Oceanography

Institute of Marine Resources
La Jolla.
Tel: 619 452 2230

Studying production of marine microalgae with a high lipid content as a means of trapping solar energy as cell biomass. Species include Phaeodactylum, Isochrysis and Dunaliella.

Scripps Laboratories Inc

11180 Roselle St, San Diego, CA 92121-1211.
Tel: 619 546 5800 Fax: 619 546 5812

Manufacturer of bulk human proteins and enzymes including: human hormones (hPRL, hCG, hFSH, hGH, hLH, hTSH including alpha and beta subunits); human proteins (apolipoproteins, CRP, CPK and LDH isoenzymes, ferritins, HSA, IgE, IgM, alpha-1-microglobulin, beta-2-microglobulin, NSE, TBG, myoglobin, thyroglobulin); cancer tumour markers (AFP, CEA, PAP, PSA); clinical diagnostics/EIA enzymes (PEPC, GDH,alk phos, HRP, CE); immunodiagnostic biochemicals (avidin/streptavidin, goat IgG, mouse IgG, ovalbumin, Protein A, Protein G); inactivated viruses (chlamydia, CMV, EBV, HBsAg subtypes adw.ayr, HSV-1, HSV-2, HSV-3, HIV-1, HTLV-1, Rubella, Varicella Zoster); psoralen inactivated plasma (HIV-1, HTLV-1). Also accepts custom manufacturing projects and provides contract production services.

The Scripps Research Institute

10666 North Torrey Pines Road, La Jolla, CA 92037.
Tel: 619 455 9100/619 554 8140
Fax: 619 554 9910

Non-profit biomedical research facility. Carries out basic research in the field of immunology including the nature of antigens, the formation and role of antibodies and the causes of inflammation as well as other fundamental immunological reactions, leading to research on the complement system, the coagulation system and the fields of microbiology, virology, molecular biology, neurobiology and cell biology. Recent research activities have expanded to include chemical structure and function, experimental medicine, vascular biology and neuropharmacology as well as new methods of creating antibodies and their role as catalysts.

Sensorex

11661 Seaboard Circle, Stanton, CA 90680.
Tel: 714 895 4344 Telex: 183123
Fax: 714 894 4839

Manufacture combination pH electrodes capable of resisting high pressures up to 100 psig.

Sensym Inc

1244 Reamwood Ave, Sunnyvale, CA 94089.
Tel: 408 744 1500 Fax: 408 734 0407

Supply temperature compensated pressure sensors for applications requiring sensitive flow controls.

The Separations Group

17434 Mojave Street, PO Box 867, Hesperia, CA 92345.
Tel: 619 244 6107 Telex: 467341
Fax: 619 244 1984

Manufactures support materials for high performance liquid chromatography and solid substrates for use in nucleic acid and oligonucleotide synthesis.

Sepragen Corp

2126 Edison Ave, San Leandro, CA 94577.
Tel: 510 636 0707 Fax: 510 636 9409

Produce radial-flow liquid chromatography columns for preparative and process scale purifications. Suitable for ion exchange, affinity, hydrophobic, and reversed-phase separations. Offer a new system that automates pilot and process scale chromatography using columns from 100ml to 20 l.

Part II California — CA UNITED STATES OF AMERICA

Sequetech Corp

2551 Casey Ave, Mountain View, CA 94043.
Tel: 415 967 8685 Fax: 415 967 8542

Provides DNA sequencing service to the biotechnology industry, specialising in sequencing PCR fragments. Also offers oligonucleotide and plasmid sequencing services.

Sequoia Capital

3000 Sand Hill Rd, Bldg 4, Suite 280, Menlo Park Suite, CA 94025.
Tel: 415 854 3927 Fax: 415 854 2977

Venture capital firm which invests in biotechnology and funds start up companies. Currently has investments in Biotrack, Applied ImmuneScience, Salutar, Penederm, Vical, Somatix, Biosym Technologies, Gensia, Glycomed, Neurex, Amylin, GenPharm International, Ontogen, CV Therapeutics, Onyx Pharmaceuticals, Red Cell, Seguano Therapeutics and others.

Serex International Inc

14435 Sherman Way, Suite 115, Van Nuys, CA 91405.
Tel: 818 989 0611

Produce speciality plasma products. Developing a monoclonal syphilis diagnostic test.

Setec Inc

2352 Research Drive, Livermore, CA 94550.
Tel: 510 294 7959 Fax: 510 449 6147

Specializes in hollow fibre membrane technology for immobilized cell bioreactors and crossflow separation and purification systems in the pharmaceutical and biotechnology industries. Hollow fibre modules are thermally bonded by a proprietary process and may be repeatedly sterilized, cleaned and reused.

Sibia

PO Box 85200, San Diego, CA 92186-9268.
Tel: 619 452 5892 Fax: 619 452 9279

Carrying out research on medical health care products.

Sirls Laboratories

40 Mark Dr, San Rafael, CA 94903.
Tel: 415 479 8710 Fax: 415 479 8710

Manufactures instruments and reagents for use in DNA/peptide and bioconjugation chemistry.

Siska Diagnostics Inc

PO Box 85200, San Diego, CA 92138.
Tel: 619 452 5982 Telex: 697196
Fax: 619 457 2252

Developing clinical diagnostics.

SmithKline Bio-Science Laboratories

Esoteric Testing Center
7600 Tyrone Ave, Van Nuys, CA 91405.

Clinical reference laboratory offering clinical testing services.

SmithKline Diagnostics Inc

225 Baypointe Parkway, San Jose, CA 95134-1622.
Tel: 408 435 2660/800 877 6242
Fax: 408 435 1953

Supplies dedicated electrolyte analyzers and test kits.

Sogetal

38762 Bay Center Place, Hayward, CA 94545.
Tel: 415 785 1881 Fax: 415 782 4930

Carrying out research and development on hybrid wheat and other cereals. Developing chemical hybridizing agents and genetic engineering of cereals.

Somatix Therapy Corp

850 Marina Village Parkway, Alameda, CA 94501.
Tel: 415 748 3000 Fax: 415 769 8533

Developing gene therapy treatments for cancer, neural diseases and hemophilia.

Source Scientific Systems Inc

7390 Lincoln Way, Garden Grove, CA 92641.
Tel: 714 898 9001/800 888 9285
Telex: 910 997 4760 Fax: 714 891 1229

Produce laboratory equipment for use in biodiagnostic assays including automated washing systems for coated tubes, beads, magnetic particles and microplates; a software development system for automated washing procedures; automated photometric and luminescence analyzers.

University of Southern California

School of Medicine Department of Molecular Microbiology and Immunology

2011 Zonal Avenue, Los Angeles, CA 90033.

Carrying out research in cellular and molecular biology, with specializations in animal virology, microbial genetics, molecular and cellular immunology, cellular differentiation and chemical carcinogenesis.

Specialty Laboratories Inc

OncQuest Inc
2211 Michigan Ave, Santa Monica, CA 90404.
Tel: 310 828 6543 Fax: 310 828 6634

Offers clinical reference and biotech research services.

Spectra Physics Inc

Autolab Division
3333 N 1st St, San Jose, CA 95134.
Tel: 408 432 3333/800 424 7666
Telex: 357460 Fax: 408 432 0203

Laser Analytics Division: 25 Wiggins Ave, Bedford, MA 01730.
Tel: 617 275 2650

Provides complete range of equipment and accessories for gas and liquid chromatography, detection and quantitation of products: complete systems, fluorescent and spectrophotometric column monitors, range of capillary, glass, metal and prepacked columns, chromatographic data systems and electronic control systems for combined gas chromatography/mass spectrometry.

Spectrex Corp

3580 Haven Ave, Redwood City, CA 94063.
Tel: 415 365 6567 Telex: 750589
Fax: 415 365 5845

Manufacture a laser-based particle counter and sizer based on the principle of near angle light scattering compatible with IBM/PC to provide complete data from in situ counting of sealed bottled liquids or flow through systems.

SPI Pharmaceuticals

3300 Hyland Ave., Costa Mesa, CA 92626.
Tel: 714 545 0100

Develops and produces therapeutics for cancer, T cell lymphoma and myasthenia gravis, enzymes, antivirals and antibiotics.

SRI International

333 Ravenswood Avenue, Menlo Park, CA 94025.
Tel: 415 326 6200
Telex: 334486/910 761 0593 Fax: 415 326 5512

Applying techniques of molecular biology to medical applications, including monoclonal antibodies and conversion of biomass to fuels and chemicals. Applying basic research on regulation of growth and differentiation supports to studies using cell culture and recombinant DNA technologies to produce biologically active peptides, including growth regulators, antiviral and antitumour compounds, as well as vaccines. Biomass research relates to enzymic breakdown of cellulosic materials.

Stanford University

Department of Pathology
300 Pasteur Drive, Stanford, CA 94305.

Investigating structure of mitochondrial nucleic acid and isolation and characterization of eukaryotic centromeres, chromosome fragments etc.

Stanford University

Department of Biochemistry
Stanford.
Investigating chromosome structure and regulation of genetic information in animal chromosomes.

Stanford University

Department of Biological Chemistry
Stanford.
Studying structure and catalytic mechanisms of nitrate and sulphate reductases. Also investigating synthetic analogues of sirohaeme and iron-sulphur proteins.

Stanford University

Department of Medical Microbiology
Stanford.
Undertaking identification of components of specific immune response. Also studying DNA replication.

Stanford University

Department of Genetics
300 Pasteur Drive, Stanford, CA 94305.
Studying expression of prokaryotic genes using bacteria such as E coli, Rhodospseudomonas etc, and evolution of plasmids. Also studying the role of transposable genetic elements.

Stanford University

Office of Technology Licensing
857 Serra St, 2nd Floor, Stanford, CA 94305-6225.
Tel: 415 723 0651 Telex: 348402
Fax: 415 725 7295

Offer services and products of research carried out by the University.

Stanford University Plasmid Reference Center

School of Medicine, Department of Medical Microbiology

Stanford.
Tel: 415 497 1772

Provide a plasmid depository.

Star Biochemicals Inc

20916 Higgins Court, Torrance, CA 90501.

Tel: 310 782 0188/800 782 7661

Fax: 310 782 8808

Produce biologically active peptides, enzyme substrates, BOC-amino acids, FMOC-amino acids, resins and custom peptides using chemical synthesis.

Sterogene Bioseparations Inc

140 E Santa Clara St, Arcadia, CA 91006.

Tel: 818 446 9200/800 535 0735

Fax: 818 446 9243

Manufactures bioseparation resins for protein, peptide, antibody and virus purification. Produce a large selection of fast flow affinity and ion exchange resins for analytical and process scale use. For direct purification from cell culture and fermentation or viscous fluids such as plasma, the company offers high capacity ion-exchange resins to eliminate centrifugation for better product yield. Supplies a series of kits designed for purification of any monoclonal antibody from ascites or cell culture and systems designed to eliminate the need for methods development, buffer preparation and column packing. All resins and systems can be scaled up for large scale work. Custom immobilization and process development services are also available. All products are manufactured under cGMP conditions and Drug Master Files are available on the products.

Stockwell Scientific

PO Box 647, 20822 Currier Rd, Walnut, CA 91789.

Tel: 714 598 7237/800 722 8920

Telex: 181383 stockwell Fax: 714 594 6269

Manufacture sample vials suitable for use in storage or transport of materials at very low (cryoscopic) temperatures. Available nonsterile or sterilized by gamma radiation. Also manufacture culture tubes, conical centrifuge tubes with screwcaps, pipette and many other laboratory disposable plastics.

Stratocyte Corp

11099 North Torrey Pines Rd, Suite 400, La Jolla, CA 92037.

Tel: 800 562 8922 Fax: 619 535 5498

Has developed a new method for creating human and murine monoclonal antibody expression libraries in phage lambda. Offers contract research and licensing in their proprietary vector technology.

Stratagene Inc

11099 North Torrey Pines Rd, La Jolla, CA 92037.

Tel: 619 535 5400/5462/800 424 5444

Telex: 910 380 9841

Fax: 619 535 0071/0034/5430

Produce a range of reagents and kits for use in molecular biology including lambda packaging systems with no Eco K activity for cloning. Products available include sequencing systems based on phage, lambda systems for chromosome walking and probe preparation, transformation competent E coli ready for use, affinity purified DNase I etc. Also offer custom services in preparation of gene libraries and cDNA libraries, linkers for any restriction site and oligonucleotides. Also markets instruments and plasticware for molecular biology.

Strategic Directions International Inc

6242 Westchester Pkwy, Suite 100, Los Angeles, CA 90045.

Tel: 310 641 4982 Fax: 310 641 8851

Provides management and market research services to the analytical instruments industry.

Sundertec Corp

11575 Sorrento Valley Rd, Suite 206, San Diego, CA 92121.

Tel: 619 481 6001

Developing micro-separation chromatography products including sample preparation columns for drugs of abuse tests and infectious disease assay. Marketing sample preparation columns for DNA and RNA purification, plasmid preparation, affinity purifications, catecholamine assays, protein purification from cell culture supernatants, bound/free 125-iodine separations and urine filtration.

Sybron Chemicals Inc

Gamajet Eqpt

21066 Alexander Court, Hayward, CA 94545.

Tel: 510 293 9040/800-BUY-JETS (289 5387)

Fax: 510 293 9045

Market a jet-washing system suitable for cleansing biochemical tanks, with a retraction design component to avoid contamination or escape of toxic gases.

Synbiotics Corp

11011 Via Frontera, San Diego, CA 92127.

Tel: 619 451 3770 Telex: 249075

Fax: 619 451 3826

Carrying out research and development of veterinary and human diagnostics, vaccines and monoclonal antibody-based therapeutics against infectious diseases. Veterinary products include tests for canine heartworm and rheumatoid arthritis. Also developing anti-idiotypes for use in drug design.

Syncor International Corp

20001 Prairie St, Chatsworth, CA 91311.

Tel: 818 886 7400/800 999 9098

Telex: 182627 syncor sylm Fax: 818 885 6513

Provide high tech pharmacies for nuclear medicine and home care pharmacy services as well as other critically timed pharmacy services.

Syngene Inc

3252 Holiday Ct, La Jolla, CA 92037.

Tel: 619 535 4000 Fax: 619 535 4005

Develops clinical diagnostics based on DNA probe technology, including a DNA fingerprinting kit, and test kits for Mycobacterium avium complex and Mycobacterium tuberculosis complex.

Syntex Corp

3401 Hillview Avenue, Palo Alto, CA 94304.

Tel: 415 855 5050 Telex: 925318

Fax: 415 855 5526

Major pharmaceutical and health care company with developments based on molecular biology in its subsidiaries Syntex Agribusiness Inc, US and Syva Co, US. Research includes diagnostics for infectious diseases and cancer including production of monoclonal antibodies to T-cell antigen receptor. Developing human vaccines to malaria and AIDS and has clinical trials with prostaglandin E. Developing novel drugs and delivery systems with Theratech.

Synthetic Genetics Inc

3347 Industrial Court, San Diego, CA 92121.

Tel: 619 793 2661/800 562 5544

Fax: 619 793 2666

Developing DNA probes and primers for therapeutic use with applications in the treatment of RNA viruses and the development of an anti-viral AIDS drug. Carrying out contract work on attaching markers to DNA. Now licensed to produce primers and probes for the proprietary polymerase chain reaction by agreement with Perkin-Elmer Cetus Instruments.

Syntron Bioresearch Inc

1080 Joshua Way, Vista, CA 92083.

Tel: 619 546 9902

Produces EIA test kits and one-step immunochromatographic dye assays.

SyStemix Inc

3155 Porter Drive, Palo Alto, CA 94304.

Tel: 415 856 4901 Fax: 415 856 4919

Primarily engaged in the development of cellular processes and products based on hematopoietic stem cells and megakaryocyte progenitors.

Syva Co

3403 Yerba Buena Rd, PO Box 49013, San Jose, CA 95161-9013.

Tel: 408 239 2000 Fax: 408 239 2206

Develops, manufactures and markets diagnostic instruments and tests for drugs of abuse detection, thyroid function assessment, infectious disease diagnosis and therapeutic drug monitoring. Provides customers with complete support services and in-house training. Offers services to hospitals, health clinics, clinical and forensic labs, treatment programmes and criminal justice agencies in development and enhancement of diagnostic programmes.

Takara Biochemical Inc

719 Allston Way, Berkeley, CA 94710.

Tel: 510 649 9895/800 544 9899

Fax: 510 649 8933

Supply biomedicals, products of Takara, Japan, including EIA kits for human proteins.

Tanabe Research Laboratories USA Inc

11045 Roselle St., San Diego, CA 92121.

Tel: 619 597 4800 Fax: 619 597 4114

Develops therapeutics. A subsidiary of Tanabe Seikaku Ltd (Japan).

Techniclone International Inc

14282 Franklin Ave, Tustin, CA 92680.

Tel: 714 838 0500 Fax: 714 838 9433

Contract producer of mouse and human monoclonal antibodies and other eukaryotic bioproducts for independent investigators and companies conducting research, clinical trials or for companies requiring commercial quantities. Offer pilot and full scale cGMP master cell culture and product purification; master drug file documentation; serum free media adaptation; consultation service for radiodiagnosis (imaging) and immunotherapy procedures.

Technology Forecasters Inc

1995 University Ave, Suite 345, Berkeley, CA 94704.

Tel: 510 849 1995 Fax: 510 849 1997

Offers market research services to biotechnology companies, including international market analysis and product concept testing.

Part II California — CA UNITED STATES OF AMERICA

Teledyne Brown Engineering

Analytical Instruments

16830 Chestnut Street, PO Box 1580, City of Industry, CA 91749-1580.

Tel: 818 961 9221 Telex: 910 584 1887

Fax: 818 961 2538/1044

Manufacture gas and liquid analyzers and systems for process and environmental applications.

Telios Pharmaceuticals Inc

2909 Science Park Rd, San Diego, CA 92121.

Tel: 619 452 6180 Telex: 3508269

Fax: 619 535 8269/546 5979

Develops therapeutic products based on extracellular matrix-peptide technology to heal chronic wounds, corneal injuries, inhibit blood clotting and enhance implant compatibility.

Terrapin Technologies Inc

750 H Gateway Blvd, S San Francisco, CA 94080.

Tel: 510 244 9303 Fax: 510 244 9388

Produce affinity columns for HPLC and a test kit for determining the optimum affinity column for protein separation. Developing immunoassays for pesticides as well as on-line process control and organic compound classification sensors.

Thermo Separation Products

45757 Northport Loop West, PO Box 5116 Fremont, CA 94537.

Produces chromatography integrators featuring built-in memory facilities and ink jet plotters.

Tissue Culture Biologicals

996 Academy Ave, Tulare, CA 93274.

Tel: 209 688 9391 Fax: 209 688 2377

Produce animal serums for tissue culture.

Transgenic Technologies Inc

4420 Enterprise St, Fremont, CA 94538.

Tel: 510 683 9199

Developing technology for the production of xeno-transplantable organs by transgenic animals.

Transtech Medical Inc

3876 Bay Center Place, Hayward, CA 94545.

Tel: 510 293 8800 Fax: 510 293 9090

Produces biologicals for cellular transplantation with immune suppression.

Tri-Continent Scientific Inc

12555 Loma Rica Drive, Grass Valley, CA 95945.

Tel: 916 273 8888 Fax: 916 273 2586

Manufactures laboratory liquid handling equipment, automated diluters and syringe pumps.

Triton Biosciences Inc

1501 Harbor Bay Pkwy., Alameda, CA 94501.

Tel: 415 769 5200 Fax: 415 769 5237

Develops therapeutics, interferon beta, TGF-alpha, MAbs, antibody reagents and diagnostics for cancers and human papillomavirus. A subsidiary of Schering (Germany).

Turner Designs

920 W Maude Ave, Sunnyvale, CA 94086.

Tel: 408 749 0994 Fax: 408 749 0998

Supplies bioluminescence luminometers and luminescence grade reagents specific for ATP for use in clinical and biomedical assays. Luminometers have full microprocessor control and digital readout.

Ultra-Lum Inc

217 E Star of India Lane, Carson, CA 90746.

Tel: 310 324 2247 Fax: 310 324 3318

Supply products for genetic research, ultraviolet curing, cross-linking and electrophoresis including transilluminators and accessories, cross-linkers, ultraviolet lamps and associated equipment.

Unipath Co

850 Maude Ave, Mountain View, CA 94043.

Tel: 415 969 5533 Telex: 4947667

Fax: 415 969 0157

Supply diagnostics for home use, bacteriological reagents, haematology systems and assay systems, products of Unilever Diagnostics Group.

UniSyn Technologies Inc

14272 Franklin Ave, Tustin, CA 92680.

Tel: 714 544 4035/800 735 4035

Fax: 714 544 0322

Offer separation services and supply products and equipment including activated and immobilized supports for affinity chromatography, gel filtration, HPLC packings and columns and ELISA plates. Custom ligand immobilization and surface activation available.

Unisyn Technologies

10954 Via Frontera, San Diego, CA 92127.

Tel: 619 592 0205 Fax: 619 673 1131

Supply cell culture hollow fibre bioreactors, oxygenators, instruments and products for LAK and TIL cell culture therapy.

United Biotech Inc

1300 Spacepark Way, Mountain View, CA 94043.

Tel: 415 961 2910 Telex: 4949135 ubi

Fax: 415 961 0766

Supply monoclonal and polyclonal antibodies, standards, reagents and equipment for enzyme immunoassay and diagnostic test kits.

United States Analytical Instruments

1511 Industrial Road, San Carlos, CA 94070.

Tel: 415 595 8200/800 437 9701

Supply sequencers, synthesizers and equipment for HPLC as well as for infrared and UV/VIS spectrometry etc.

Utak Laboratories Inc

26752 Oak Ave, Suite J, Canyon Country, CA

91351-2409.

Tel: 805 251 9654/800 235 3442

Fax: 805 251 7659

Supply reagents and controls for TDM toxicology, and drugs of abuse.

UVP Inc

5100 Walnut Grove Avenue, San Gabriel, CA 91776.

Tel: 818 285 3123/800 452 6788

Fax: 818 285 2940

Provides modular ultraviolet illumination systems for visualization of chromatographic and electrophoretic separations (254, 302 and 365 nm ultraviolet light in one system).

Vacumetrics Inc

5770 Nicolle St, Ventura, CA 93003.

Tel: 805 644 7461/800 235 3333

Telex: 4991689 vacux Fax: 805 654 8759

Supply bacteriological filters.

Varian Associates Inc

Instrument Group

611 Hansen Way, Palo Alto, CA 94303.

Tel: 408 752 2152/800 231 8134

Telex: 348476 Fax: TWX: 910 373 1731

Manufactures laboratory instruments, accessories and supplies for chromatography and spectroscopy in particular. Produces gas chromatography/mass spectrometry and completely automated liquid chromatography systems including systems for separation of proteins and nucleic acids, nuclear magnetic resonance and ultraviolet/visible spectrophotometers, spectrofluorometers and atomic absorption systems.

Vector Laboratories Inc

30 Ingold Rd, Burlingame, CA 94010.

Tel: 415 697 3600/800 227 6666

Fax: 415 697 0339

Produces a line (peroxidase, alkaline phosphatase, glucose oxidase) of immunohistochemical detection kits for tissue sections, transfer blots and ELISAs. Manufactures avidin (and conjugates), streptavidin (and conjugates), biotinylated antibodies, biotinylating reagents for proteins and nucleic acids, substrate kits, lectins, lectin conjugates and other biotin/avidin system reagents as well as primary antibodies for histopathology and biomedical research. Also offers tissue adhesive, mounting medium for fluorescence and neuronal tracer, as well as services in custom biotinylation of proteins.

Venture Information Services

6114 La Salle Ave, Suite 350, Oakland, CA 94611.

Tel: 415 530 5030 Fax: 415 531 4140

Publishes Directory of California Biotechnology. Supplies information services including market research, competitive analysis, patent searching and industry studies, technical articles, patents and reports. Can produce custom information reports on biotechnology, pharmaceuticals and health care etc.

Verigen Inc

11211 Sorrento Valley Rd, Ste. H, San Diego, CA 92121.

Tel: 619 455 5470 Fax: 619 455 1713

Develops diagnostics.

Viagene Inc

11055 Roselle St, San Diego, CA 92121.

Tel: 619 452 1288 Fax: 619 452 2616

Developing gene-based anti-viral and anti-cancer therapeutics as well as clinical assay systems. Products include biological reagents, pharmaceuticals, diagnostics and clinical tests.

Vical Inc

9373 Towne Centre Drive, Suite 100, San Diego, CA 92121.

Tel: 619 453 9900/9777 Fax: 619 453 5885

Focused on the development of gene-based pharmaceutical products for human gene therapy. Gene-based therapeutic approach may offer safer and more cost-effective alternatives for many diseases, including infectious and cardiovascular diseases, autoimmune disorders and cancer.

Virx Inc

655 Sutter St, Suite 600, San Francisco, CA 94102.

Tel: 415 474 4440 Fax: 415 474 0720

Private clinical research centre specializing in clinical studies of new treatments for HIV infection and infectious diseases.

Vista Biologicals Corp

2120-C Las Palmas Dr., Carlsbad, CA 92009.
Tel: 619 438 5058

Offer contract production and purification services for proteins and therapeutics.

Vitaphore Corp

1505 O'Brien Dr., Menlo Park, CA 94025.
Tel: 415 688 1100 Fax: 415 323 1889

Produces absorbable collagen hemostat, collagen corneal shield, anti-microbial catheter cuff and other medical devices based on collagen technology.

Vydac

The Separations Group

17434 Mojave St, PO Box 867, Hesperia, CA 92345.
Tel: 619 244 6107/800 247 0924
Telex: 467341 Fax: 619 244 1984

Manufactures prepacked columns for use in HPLC including those for separation of mixtures of proteins and peptides.

Walgene R&D Laboratories Inc

136 East Santa Clara Street, Arcadia, CA 91006.
Tel: 818 821 4913 Fax: 818 446 9243

Manufactures animal serum immunoglobulins and other proteins. Undertakes contract monoclonal and polyclonal antibody purification. Offers development services.

Wedgewood Technology Inc

100 Industrial Way, San Carlos, CA 94070.
Tel: 415 593 1598 Fax: 415 593 0235

Manufactures inline and probe detectors for monitoring and process control of UV, pH, conductivity/temperature, pressure, dissolved oxygen NIR monitor for reverse phase chromatography, turbidity, cell growth (optical density), colour and solids. Provide instrumentation consultation, process control design and packaging, and research and design of new biotech instrumentation such as fluorescence measurement.

Westbridge Research Group

2776 Loker Ave W, Carlsbad, CA 92008.
Tel: 619 438 8639 Fax: 619 438 0160

Research, develop and manufacture biorational products for the agriculture industry including agricultural plant growth regulators and feed additives, and industrial products for bioremediation and effluent treatment.

Western Analytical Products Inc

33700 Calle Vista, Temecula, CA 92589.
Tel: 714 676 3577/800 541 8421
Fax: 714 676 9131

Distributor for The Separation Group, Synchron, Upchurch, Polymer Laboratories, Vydec and Synchropak. Product range includes HPLC supports and solid substrates for use in nucleic acid and oligonucleotide synthesis.

Wizard Laboratories

1362 Monarch Lane, Davis, CA 95616.
Tel: 916 753 6700

Carries out contract synthesis of radioactive and heavy isotope-labelled carbon compounds.

Wyatt Technology Corp

802 E Cota St, Santa Barbara, CA 93103.
Tel: 805 963 5904 Telex: 650 288 6806
Fax: 805 965 4898

Supply equipment for absolute biomolecular characterization in a static or HPLC environment without reference to standards or assumptions.

Xoma Corp

2910 Seventh St, Berkeley, CA 94710.
Tel: 510 644 1170 Telex: 856697
Fax: 510 644 0539

Research company creating pharmaceutical, agricultural and industrial products through genetic engineering technologies, involved in protein purification and characterization, bacterial and yeast genetic engineering, immunogenetics, agricultural microbiology and mammalian gene isolation and characterization. Cloning and expression of DNAs, protein and peptide purification, amino acid sequence analysis, immunodetection techniques and monoclonal antibody production are also being investigated. Also have an interest in sweeteners and pesticides. Developing therapeutic chimeric antibodies against HIV and HIV-1, human T-cell and leukemia virus. Have joint venture with Epitope, US to develop virus targeting HIV mouse monoclonal antibodies for diagnostic and other in vitro non-therapeutic uses.

Xoma Corp

1545 17th St, Santa Monica, CA 90404.
Tel: 213 829 7681 Fax: 213 828 2463

Using recombinant DNA and other technologies to produce pharmaceutical products for targeted treatment of infectious and immune system diseases.

Xytronyx

6555 Nancy Ridge Dr., Ste. 200, San Diego, CA 92121.
Tel: 619 546 1114 Fax: 619 546 1170

Develops veterinary vaccines for pseudorabies and other animal diseases, diagnostics for periodontal and other human diseases, and also carries out R&D on protein chemistry and synthesis and enzymology.

Zoecon Corp

975 California Ave, Suite 10975, Palo Alto, CA 94304.
Tel: 415 857 1130

Carrying out research on improved plant strains and seeds.

Zymed Laboratories Inc

458 Carlton Court, South San Francisco, CA 94080-9874.
Tel: 415 871 4494 Fax: 415 871 4499

Manufacturer and international distributor of primary and secondary antibodies, streptavidin/biotin, antibody conjugates and other fine immunochemicals including: reagents for immunohistology, flow cytometry, ELISA, blotting and antibody purification. Also offers kits for immunohistostaining, blotting and IgG subclass quantitation. Services for custom, bulk and OEM reagents are available.

Colorado — CO

Adolph Coors Co

1221 Ford Street, Golden, CO 80401.
Tel: 303 279 6565

One of the major US brewing companies. Carrying out research in brewing technology, fermentation, yeast metabolism, enzyme reactions and kinetics, analysis etc.

AllerTech Inc

7800 S Elati St, Suite 111, Littleton, CO 80120.
Tel: 303 730 1414/800 628 8008

Supply aseptic contract packaging, and carry out clinical trials.

Atrix Laboratories Inc

2579 Midpoint Drive, Fort Collins, CO 80525.
Tel: 303 482 5868 Fax: 303 482 9735

Engaged in research and development related to a proprietary drug delivery technology which has a variety of applications in the human and animal healthcare industries. Two products in advanced clinical trials for periodontal disease.

Avasco

9840 West 35th Avenue, Wheat Ridge, CO 80033.
Tel: 303 237 9353

Has developed a continuous fermentation process based on a horizontal rotating fermenter, suitable for yeast-based fermentation of monosaccharide feedstocks to produce fuel ethanol, along with all biochemical reactions and respective processes.

Biostar Medical Products Inc

5766 Central Ave, Boulder, CO 80301.
Tel: 303 447 1605 Fax: 303 447 1851

Develop novel and innovative immunoassay techniques, including optical immunoassay (OIA), for the clinical laboratory, doctor's surgery and self-diagnostics. Also developing antigen-specific test kits for systemic Lupus erythematosus, rheumatoid arthritis and multiple sclerosis, as well as a complexed antibody class specific panel for discrimination of complexed antibodies.

Cell Technology Inc

1668 Valtec Lane, Boulder, CO 80301.
Tel: 303 443 8155 Fax: 303 443 5590

Developing immunoresponse modulators and therapeutics for treatment of cancer, cardiovascular conditions, viral infections and burns.

Cobe Laboratories

1185 Oak St, Lakewood, CO 80215-4407.
Tel: 303 232 6800/800 525 2623
Telex: 432040 Fax: 303 233 9069

Supply health care products.

Colorado Serum Co

4950 York Street, PO Box 16428, Denver, CO 80216.
Tel: 303 295 7527 Fax: 303 295 1923

Offers services in custom production of animal blood-derived products, including isolated erythrocytes and serum as well as anticoagulants for veterinary treatments.

Part II Colorado — CO UNITED STATES OF AMERICA

Colorado State University

Department of Agricultural and Chemical Engineering

Fort Collins.

Tel: 303 491 5252 Fax: 303 491 7369

Have capability for performing a wide variety of pilot-scale fermentations and associated separations (site of the Colorado Bioprocessing Center); study of mechanisms of microbial conversion of contaminant chemicals for application in bioremediation; investigation of micromixing phenomena in fermenters; production of useful products from plant cell cultures; modelling, optimization and control studies of various fermentations.

Colorado State University

Department of Microbiology

Fort Collins.

Tel: 303 491 6136 Fax: 303 491 1815

Carrying out R&D on construction of viral and plasmid vectors for genetic alteration of bacterial and animal cells, plant cell culture for products, thermophilic bacterial cellulase formation and microbial bioconversion to provide starting materials for ethanol and butanol fermentation.

University of Colorado

Colorado Institute for Research in Biotechnology (CIRB)

Campus Box 424, Boulder, CO 80309.

Tel: 303 492 7314

Promotes research and training in biotechnology. Areas of research include animal, plant and microbial cell culture.

Columbine Venture Fund II LP

6312 S Fiddler's Green Circle, Suite 260N, Englewood, CO 80111.

Tel: 303 694 3222

Venture capital company with interests in biotechnology.

Cortech Inc

6840 North Broadway, Denver, CO 80221.

Tel: 303 650 1200 Fax: 303 650 5023

Developing pharmaceutical products in the areas of inflammation and immunology.

Elantec Medical Inc

85 S Union Blvd, Suite G-160, Lakewood, CO 80228.

Tel: 303 278 7672 Fax: 303 233 7106

Develop products and formulations for the pharmaceutical, biotechnology, veterinary and personal care industries (human and veterinary).

5 Prime-3 Prime Inc

5603 Arapahoe Ave, Boulder, CO 80303.

Tel: 303 440 3705/800 533 5703

Telex: 446573 Fax: 303 440 0835

Manufactures pre-swollen, pre-packed chromatography columns for use in protein and DNA separations designed for use in recombinant DNA work, antibodies, enzyme inhibitors, nucleases and ribonucleases and ELISA kits for reporter genes.

Genetic Engineering Inc

136 Ave & N Washington St, Denver, CO 80233.

Tel: 303 457 1311

Bull semen laboratories developing techniques for animal sex selection.

Hauser Chemical Research Inc

Hauser Natural Chemicals Division

4750 Nautilus Court, South, Boulder, CO 80301.

Tel: 303 530 4750 Fax: 303 530 7083

Offer contract processing or licensing, process development, scale up and evaluation in the production of natural chemicals and extracts using proprietary technology for scale up without chromatography.

Human Technology Corp

P.O. Box 211514, Denver, CO 80221.

Tel: 303 431 8080

Produces continuous process bioreactors and equipment for the algal culture of pigments, proteins and carotenoids.

M & R Durango Inc

6565 Highway 172, Ignacio, CO 81137.

Tel: 303 259 3521 Fax: 303 259 3857

Produces beneficial nematodes and insects, including green lacewings, for the control of insect pests. Also produces the protozoon *Nosema locustae* for the control of grasshopper pests.

Manville International Corporation

Biochem Products & Services

PO Box 5108, Denver, CO 80217.

Tel: 303 978 2656/5080 Fax: 303 978 2680

Manufactures custom carriers for biotechnical applications made of rigid, inorganic materials which provide thermal and chemical stability, mechanical strength and rigidity and microbial resistance. These incorporate high surface area, controlled porosity and surface modification for adsorption. They are suitable for use in enzyme and microbe immobilization, cell immobilization, cell cultures and filtration.

MKS Instruments Inc

HPS Division

5330 Sterling Drive, Boulder, CO 80301.

Tel: 303 449 9861/800 345 1967

Fax: 303 442 6880

Manufacture vacuum equipment.

NeXagen Inc

2860 Wilderness Place, Suite 200, Boulder, CO 80301.

Tel: 303 444 5893

Developing oligonucleotide ligands for use as therapeutic agents.

Paravax Inc

2301 Research Blvd, Suite 110, Ft Collins, CO 80526.

Tel: 303 493 7272 Fax: 303 493 7333

Developing vaccines for the control of animal parasites, including feline and canine fleas and heartworms, canine hookworm, feline T263 toxoplasmosis, swine P30 toxoplasmosis, canine ticks and allergy dermatitis.

Particle Measuring Systems Inc

1855 South 57th Court, Boulder, CO 80301.

Tel: 303 443 7100 Telex: 469143

Fax: 303 449 6870

Supply instruments for particle detection, measurement and counting in air, liquids and on surfaces.

Schlueter Instruments Corp

6525 Gunpark Drive, Suite 320, Boulder, CO 803001.

Tel: 303 530 2217 Fax: 303 530 7694

Supply a wide range of laboratory equipment, safety equipment, laboratory and field optical instruments and accessories.

Scientech Inc

5649 Arapahoe Ave, Boulder, CO 80303-1399.

Tel: 303 444 1361/800 525 0522

Telex: 910 940 0994 Fax: 303 444 9229

Manufactures analytical and top-loading balances as well as laser power meters.

Softshell International

715 Horizon Dr, #390, Grand Junction, CO 81506.

Tel: 303 242 7502 Fax: 303 242 6469

Produce molecular design software.

Somatogen Inc

5797 Central Avenue, Boulder, CO 80301.

Tel: 303 440 9988 Fax: 303 443 7343

Developing recombinant human haemoglobin-based blood substitute products and recombinant human haemoglobin-based drug delivery systems.

Synergen Inc

1885 33rd Street, Boulder, CO 80306.

Tel: 303 938 6200 Telex: 3720405

Fax: 303 938 6268

Engaged in the discovery, development and manufacture of protein-based pharmaceuticals. Research is targeted towards products for inflammatory disease and neurological disorders. Products include an interleukin-1 receptor antagonist (in clinical trials for sepsis, rheumatoid arthritis, inflammatory bowel disease, asthma, psoriasis and ocular inflammation), ciliary neurotrophic factor, tumour necrosis factor binding protein, nerve growth factor and glial-derived neurotrophic factor.

Vitro Diagnostics Inc

8100 Southpark Way, Building B, Suite 1, Littleton, CO 80120.

Tel: 303 794 2000 Fax: 303 798 8332

Supply purified human antigens: LH, FSH, TSH, Prolactin, growth hormone, CEA, hCG. Supplied at more than 98% or 50% purity. hCG-alpha and hCG-beta can also be provided.

Western Chemical Research Corp

2300 North Highway 287, PO Box 1255, Fort Collins, CO 80522.

Tel: 303 493 8474

Supplies bulk immunodiagnostic reagents and antisera. Services include custom antiserum production, complete immunodiagnostic assay development, automated system development, competitive product evaluation, general consulting services and contract research and development.

Whale Scientific Inc

4945 Monaco St, Commerce City, CO 80022-4609.

Tel: 303 289 4781/800 525 1875

Fax: 303 289 7957

Manufacturer and distributor of solid phase extraction columns, custom filtration columns and urinary diagnostic test kits.

Xenometrix Inc

2860 Wilderness Place, Boulder, CO 80301.
Tel: 1 800 436 2869 Fax: 303 447 1758

Produces a wide range of in vivo and in vitro assays for genotoxicity, cytotoxicity and carcinogenicity testing.

ZeaGen Inc

350 Interlocken Blvd, Suite 275, Broomfield, CO 80021.
Tel: 303 460 6300/800 522 4680
Fax: 303 460 6341

Develops, manufactures and markets natural ingredients for food and feed including fermentation products such as vitamin B2. Products include fructo-oligosaccharide for feed, high fructose corn syrup, starch and natural colourings, caramelized barley malt and batter/breading systems. A subsidiary of Adolph Coors Co, US.

National Renewable Energy Laboratory (NREL)

1617 Cole Boulevard, Golden, CO 80401.
Tel: 303 275 4099 Fax: 303 275 4091

Internet: rubin@tcplink.nrel.gov.

A government-owned, contractor-operated national laboratory operated by Midwest Research Institute, Kansas, MI, for the US Department of Energy (DoE). Conducts long-range, high-risk basic research on renewable technologies in the areas of photovoltaics, alternative fuels, wind energy, ocean energy, solar thermal energy and energy efficiency technologies (active and passive solar). Carrying out studies on: the production of fuels and chemicals from biomass using fermentation and anaerobic digestion; the use of cellulose; separation methods; and municipal solid waste management alternatives. Also manages the alcohol (ethanol) fuel programmes of DoE.

Connecticut — CT

Aetna Life & Casualty Co

151 Farmington Avenue, Hartford, CT 06156.
Tel: 203 273 0123

Has investment interests in a number of biotechnology companies including Genentech Inc, US.

American Diagnostica Inc

222 Railroad Ave, PO Box 1165, Greenwich, CT 06836-1165.
Tel: 203 661 0000 Fax: 203 661 7784

Manufactures and markets clinical diagnostic kits and reagents for clotting and bleeding disorders, related reagents and monoclonal and polyclonal antibodies.

**AMF Biological & Diagnostic Products Co
Specialty Materials Group**

400 Research Parkway, Meriden, CT 06450.
Tel: 203 237 5541 Telex: 962457

Manufactures diagnostics and clinical test kits as well as antisera, calf-serum replacement and radioimmunoassays for medical and veterinary use. A subsidiary of AMF Inc, US.

Bio-Investigations Ltd

32 Country Way, Madison, CT 06443.
Tel: 203 421 3697

Offer market assessment, marketing and management consultancy for new and developing biotechnology companies.

Biocyte Corp

1281 East Main Street, Stamford, CT 06902.
Tel: 203 324 2300 Fax: 203 348 5080

Carrying out R&D on therapeutic products based on cord blood stem cells (cells from the placental blood and umbilical cord of the new born). Developing cord blood stem cell storage service and library.

BioPolymers Inc

74 Northwest Drive, PO Box 1307, Farmington, CT 06034.
Tel: 203 793 9651 Telex: 316208

Supply cell and tissue products for use in ophthalmics as well as mollusc derived adhesives.

BIOS Laboratories

291 Whitney Ave, New Haven, CT 06511.
Tel: 203 773 1450/800 678 9487
Fax: 203 562 9377

Supplies a complete line of equipment, biologicals, reagents and kits for molecular biology including products for chromosomal localization, RFLP analysis, familial heredity and evolutionary studies. Also offers products to analyze gene expression through Northern blots. These products are available as either preprepared blots, polymerase chain reaction amplifiable or Southern blot DNAs. Custom services are also available which include microdissection, in situ mapping and in-house analysis of researcher's probes. Equipment includes electrophoresis (horizontal and mini), blotting, hybridization and imaging units. Now offers a complete line of radiation protection products (shields, boxes, trays, racks etc). Offer a kit using a novel method for labelling and synthesizing DNA simultaneously as a direct replacement for random priming methodologies.

Biotix Inc

Commerce Park, Corporate Drive, Danbury, CT 06810-4130.
Tel: 203 790 7880/800 288 2468

Manufacture products and equipment for molecular biology including electrophoretic equipment and materials, DNA sequencers and synthesizers.

Branson Ultrasonics Corp

41 Eagle Rd, Danbury, CT 06813-1961.
Tel: 203 796 0400 Telex: 969640
Fax: 203 796 9813

Manufactures cell fractionators and liquid processing equipment (ultrasonic).

Business Communications Co Inc

BCC
25 Van Zant St, Norwalk, CT 06855.
Tel: 203 853 4266 Fax: 203 853 0348

Independent market research and analysis firm with cross-discipline capabilities in biotechnology, health, agriculture, food, chemicals and many other fields. Emphasizes business implications of technical and market changes. Publishes in-depth, multi-client technical-economic studies. Also publishes Applied Genetic News, Medical Materials Update, Food Ingredient News, Stereochemical Technology News and many other monthly newsletters. Offers confidential custom consulting to start-up as well as established firms.

Canberra Industries Inc

One State St, Meriden, CT 06450.
Tel: 203 238 2351/800 243 4422
Tel: 643251 Fax: 203 235 1347

Manufacture radioimmunoassay equipment as well as frequency counters, ratemeters and radiation detectors.

Centerchem Inc

225 High Ridge Rd, Stamford, CT 06905.
Tel: 203 975 9800 Fax: 203 975 8777

Distributor for Pentapharm, Switzerland natural and synthetic biochemical reagents including non-toxic, low molecular weight irreversible inhibitors, immobilized and soluble aprotinin, active-site acylating agents and other competitive protease inhibitors. Also available is a line of highly specific chromogenic and fluorogenic substrates for rapid assay of thrombolytic enzyme activity in research, QC and large-scale purification. All materials are available from micro mole vials to bulk quantities.

Clinical Research Associates of New England Inc

90 Brookside Drive, West Hartford, CT 06107.
Tel: 203 232 9200 Fax: 203 232 4980

Provide consulting and contract research services for the biotechnology and healthcare sectors; design, conduct and analyze feasibility studies and clinical trials in compliance with FDA requirements and regulations.

Combined Sciences Corp

433 Boston Post Rd, Darien, CT 06820.

Manufactures amino acid analyzers.

University of Connecticut

Department of Biochemistry

Farmington Avenue, Farmington, CT 06032.

Investigating glycolytic structural genes isolated on bacterial plasmids including studies on hybrid genes constructed in vitro from different segments of glycolytic genes.

University of Connecticut

Biotechnology Center

184 Auditorium Road, Storrs, CT 06269-3149.
Tel: 203 486 5011 Fax: 203 486 5005

Email: biotctr1@connvm.uconn.edu.

Promote research and training in biotechnology. Research facilities include animal and plant cell culture, fermentation and separation, image processing and analysis, macromolecular characterization, transgenic animals and analytic ultracentrifugation.

University of Connecticut, Health Centre

Department of Microbiology

Rm L2034, Farmington, CT 06032.

Tel: 203 679 2310 Fax: 203 679 1239

Carrying out research on the function of individual genes coding for various proteins produced by the herpes virus as a means of developing improved anti-viral compounds.

Cuno Inc

400 Research Parkway, Meriden, CT 06450.
Tel: 203 237 5541/800 231 2259
Tel: 221083 Fax: 203 238 8716/8977

Manufactures filtration and purification products for affinity and ion exchange chromatography, positively charged nylon 66 transfer membrane, charge modified nylon filtration products, filter media, filter holders, syringe filters, cut disc filters and disposable prefilters.

Part II Connecticut — CT UNITED STATES OF AMERICA

Deltown Chemurgic Corporation

191 Mason St, Greenwich, CT 06830.
Tel: 203 629 8754 Telex: 643625
Fax: 203 629 8722

Manufacture a wide range of peptones and protein hydrolyzates derived from animal tissues and plant sources using acid or enzymatic means. Suitable for use in formulation of culture medium, food products, cosmetics etc.

Dexter Corp

1 Elm Street, Windsor Locks, CT 06096.
Tel: 203 627 9051

Manufactures materials for coating and encapsulation, water treatment, plastic sheeting etc, as well as producing microbial and tissue culture media and clinical and research diagnostics through its subsidiary Gibco Division, US.

Diagnostic Chemicals Ltd (USA)

160 Christian St, Oxford, CT 06478.
Tel: 203 881 2020/800 325 2436
Fax: 203 888 1143

Manufactures high purity chemicals, enzymes and other natural products for research, diagnostic and pharmaceutical applications. Company expertise is in synthetic organic chemistry, extracted bioproducts, reagent formulation and kit production. Representative products include X-Gal, IPTG, domoic acid, diaphorase and X-Gluc. Offers services in custom synthesis.

Dianon Systems Inc

200 Watson Boulevard, Stratford, CT 06497.
Tel: 203 381 4000/800 328 2666
Fax: 203 375 0221

Supplies specialized laboratory testing and information services including serum tumour markers, cytopathology, histopathology, immunohistochemistry, flow cytometry, image cytometry, receptor analysis, cytogenetics and molecular genetics.

DNA Pharmaceuticals

1177 High Ridge Rd, Stamford, CT 06905.
Tel: 203 321 2126 Fax: 203 321 2117

Produce therapeutics, anti-virals, retrovirals and immunomodulators.

E R Butts International Inc

555 Clinton Ave, PO Box 3337, Bridgeport, CT 06605-0337.
Tel: 203 333 4943 Fax: 203 334 0654

Regulatory consultants dealing with the regulations governing agricultural biotechnology including microbial pesticides and transgenic plants in Canada and biochemical and chemical pesticides in the US and Canada.

Eastman Chemical Co

25 Science Park, New Haven, CT 06511.
Tel: 203 786 5600/800 243 2555
Fax: 203 786 5494

PO Box 9558, New Haven, CT 06535-9974

Supply laboratory and research products including a rapid analysis system for fermentation/cell culture analysis.

Environetics Inc

21 Business Park Drive, Branford, CT 06405.
Tel: 203 481 3073/800 321 0207
Fax: 203 481 6358

Manufacture environmental diagnostic test kits and microbiological bacterial detection systems.

Fuji Medical Systems USA Inc

Bio-Imaging Group

Stamford Harbor Park, 333 Ludlow St, Stamford, CT 06902.

Tel: 203 353 0300/800 431 1850
Fax: 203 327 5899

PO Box 120035, Stamford, CT 06912.
Tel: 800 431 1850 Fax: 203 327 6485

Manufacture and sell photographic and magnetic products; developing real-time whole blood clinical testing system using multi-coated dry film layers as well as electrophoretic gel sheets for DNA sequencing.

Genmap Inc

291 Whitney Ave., New Haven, CT 06511.
Tel: 203 773 1946 Fax: 203 562 9377

Produces therapeutics and diagnostics. Offers a complementary DNA library.

IBM Instruments Inc

PO Box 332, Danbury, CT 06810.
Tel: 203 796 2500

Manufactures laboratory computer systems, spectrophotometers, liquid chromatographs and columns for molecular weight analysis and other gel permeation equipment.

International Biotechnologies Inc

25 Science Park, New Haven, CT 06511.
Tel: 203 786 5600/800 243 2555
Telex: 643993 Fax: 203 786 5670

Supplies apparatus, reagents and other products for molecular biology including restriction and modifying endonucleases, ultrapure reagents, as well as nucleic acid, cloning, genome analysis, electrophoresis and sequencing apparatus and technical information. Division of Eastman Kodak, US.

John Brown E&C

17 Amelia Place, PO Box 1432, Stamford, CT 06904.

Tel: 203 327 1450 Telex: 965900

Major engineering company with considerable experience in construction of biotechnology-related plant and facilities in areas of production of antibiotics, dextran and other polysaccharides, single cell protein, ethanol and enzymes. Services include consultancy, process evaluation and development and project execution (see also Constructors John Brown, UK, CJB Developments, UK, and John Brown Engineering & Constructors, UK).

Jule Bio Technologies Inc

25 Science Park, New Haven, CT 06511.
Tel: 203 786 5490 Fax: 203 786 5489

Manufactures ready made gels for protein and DNA separation.

Kali-Chemie Corp

41 West Putnam Avenue, Greenwich, CT 06830.
Tel: 203 629 7900/212 949 1651
Telex: 4750062 Fax: 203 629 9074

Products include peptides, amino acid derivatives and salts, reagents for peptide synthesis such as protected amino acids and trifluoroacetic acid, protein hydrolyzates, enzymes, adsorbents and carrier systems including silica microspheres.

MicroGeneSys Inc

1000 Research Parkway, Meriden, CT 06450.
Tel: 203 686 0800 Fax: 203 686 0268

Research and development company engaged in aspects of biological control, as well as the production of vaccines and therapeutics for use in both humans and other animals. Products under development include insecticides based on baculoviruses, as well as research products such as AIDS retrovirus envelope proteins manufactured using recombinant insect cells modified using a baculovirus as the vector to introduce the required genes to code for the foreign protein, and diagnostics to detect HIV antibodies. Have reached Phase 1 of development of an AIDS vaccine. Also producing vaccines for malaria, hepatitis-B, Lyme disease and Dengue fever.

Miles Inc

FBA Pharmaceuticals formerly Mobay Corp

400 Morgan Lane, West Haven, CT 06516.
Tel: 203 498 6521/800 243 4153
Fax: 203 498 6585

Supplies pharmaceuticals and fine chemicals; products of Bayer AG, Germany. Products include proteolytic inhibitors and RIA reagents.

Miles Research Centre

formerly Molecular Diagnostics Inc

400 Morgan Lane, West Haven, CT 06516.
Tel: 203 934 9229 Fax: 203 937 5467

Markets diagnostic products. Developing DNA probes for thalassemia and sickle cell anaemia as well as monoclonal antibody based diagnostics for diabetes, cancer, infectious and human genetic diseases. Subsidiary of Bayer AG, Germany.

Neurogen Corp

35 Northeast Industrial Rd, Branford, CT 06405.
Tel: 203 488 8201 Fax: 203 481 8683

Products include drugs for the treatment of psychiatric and neurological disorders.

Omega Engineering Inc

One Omega Drive, PO Box 4047, Stamford, CT 06907.

Tel: 203 359 7874/800 848 4271
Telex: 996404 Fax: 203 359 7700

Supply a full range of equipment for temperature, flow, pH and data acquisition measurements. An Omega Technology Company.

OMNI International Inc

2142 Thomaston Ave, Waterbury, CT 06704.
Tel: 203 573 1322 Telex: 160934 omni
Fax: 203 757 0893

Supply tissue homogenizers including a hand-held rechargeable model for microprocessing from 0.03 ml to 20 l.

Packard Instrument Co

800 Research Parkway, Meriden, CT 06450.
Tel: 203 238 2351/800 323 1891
Telex: 643251 Fax: 203 235 1347

Manufactures liquid scintillation counting equipment, gamma-counters and gas chromatography (GC) systems, including GC/mass spectroscopy systems and microprocessor-controlled systems. Supplies chemicals for scintillation counting as well as instruments and accessories for liquid chromatography.

Pallflex Inc

Kennedy Drive, Putnam, CT 06260.
Tel: 203 928 7761

Manufacture filtration membranes and equipment.

Perkin-Elmer Corp

Life Science and Analytical Instruments

761 Main Avenue, Norwalk, CT 06859-0001.
Tel: 203 762 1000/800 762 4000
Telex: 965954 Fax: 203 762 6000

Joint venture between Perkin-Elmer Corp and Cetus Corp dedicated to the development and marketing of molecular biology instrumentation and reagent systems used in research and other bioanalytical applications. Global leader in PCR technology. Products for PCR amplification include advanced instrument systems and over 75 related reagents and application kits as well as a system for rapid quantitation of PCR products. Also manufactures instrumentation for spectroscopy, chromatography and thermal and elemental analysis. Products include: complete system for GC and GC-MS; LC, HPLC, and LC-MS; AA, ICP and ICP-MS spectrometry; FT-IR, UV/VIS and fluorescence spectroscopy.

Pfaltz & Bauer Inc

172 E Aurora St, Waterbury, CT 06708.
Tel: 203 574 0075 Fax: 203 574 3181

Supplies a very wide range of over 14000 different research chemicals including organic, inorganic and organometallic compounds as well as biochemical reagents.

Phase Separations Inc

140 Water Street, Norwalk, CT 06854.
Tel: 203 852 1797 Telex: 4759018
Fax: 203 852 6921

Manufacture accessories for chromatography as well as liquid chromatographs, HPLC systems, chromatography pumps, chromatography supports and media etc.

Quadrex Corp

PO Box 3881, New Haven, CT 06525.
Tel: 203 393 3112 Fax: 203 393 0391

Supply equipment for gas chromatography.

Radiomatic Instruments & Chemical Co Inc

1 State St, Meriden, CT 06450.
Tel: 203 238 2351 Fax: 203 634 0012

Manufacture analyzers and detectors including a flow detector for HPLC.

Spectra-Tech Inc

652 Glenbrook Rd, Stamford, CT 06906.
Tel: 203 357 7055 Fax: 203 357 0609

Manufacture sampling accessories for FT-IR spectrometry. Products include FT-IR microscopes.

Symbiotech Inc

8 Fairfield Blvd, Wallingford, CT 06492.
Tel: 203 284 7465 Fax: 203 284 7467

Undertakes research and development, analytical services, surfactant production and bioremediation. Products under development include chemiluminescent labelling and imaging of DNA and protein in electrophoretic gels, sample preparation technology for chromatography, devices for separating blood plasma from whole blood, polymers for two phase aqueous extraction, novel antimicrobial and anticancer agents, and prophylactic agents against cyanide and toxins.

Targetech Inc

290 Pratt St, Meriden, CT 06450.
Tel: 203 235 5600 Fax: 203 237 8539

Produces in vivo receptor-mediated gene therapy systems.

Technology Management Group

25 Science Park, New Haven, CT 06511.
Tel: 203 786 5445 Fax: 203 786 5449

Biotechnology marketing consultants and publishers of multient reports and newsletters. Also produce computer software for biotechnology and pharmaceutical researchers and information specialists.

Theta Corp

Theta Building, Middlefield, CT 06455.
Tel: 203 349 1054 / 800 995 1550
Fax: 203 349 1227

Carries out market research reports and consulting in those areas of biotechnology likely to affect medical diagnostic industries. Produces a monthly newsletter and offers a mail list rental service.

Tridak

Division of Indicon Inc

1120 Federal Rd, Brookfield, CT 06804.
Tel: 203 775 1287 Fax: 203 775 4376

Manufactures dispensing systems for applying precise quantities of fluids and pastes in manual or automated mode and nanolitres to litres.

Union Carbide Corp

Old Ridgebury Road, Danbury, CT 06817.
Tel: 203 794 5300 Telex: 420542

Corporate Research Department, Tarrytown Technical Center, Tarrytown, NY 10591

Manufactures bulk chemicals for use as antifreeze, polyester fibres, polyethylene, toiletries, cosmetics, packaging for processed food and agricultural products. Carrying out applied studies in recombinant DNA technology, with emphasis on new routes to production of industrial chemicals.

University Patents Inc

1465 Post Road East, PO Box 901 Westport, CT 06881.

Tel: 203 255 6044

Licenses developments in molecular biology such as monoclonal antibodies for use as therapeutics or in diagnostics.

Vimrx Pharmaceuticals Inc

1177 High Ridge Rd, Stamford, CT 06905.
Tel: 203 321 2115 Fax: 203 321 2117

Developing antiviral and antiretroviral therapeutics.

Vitro Technology Ltd

955 Connecticut Ave, Suite 1113, Bridgeport, CT 06607.

Tel: 203 366 0660 Fax: 203 366 8820

Offer custom glass fabrication.

Delaware — DE

Analtech Inc

75 Blue Hen Drive, PO Box 7557, Newark, DE 19711.

Tel: 302 737 6960 Telex: 835329

Manufactures and supplies plates and accessories for thin layer chromatography.

Cambridge Research Biochemicals Inc

Wilmington.
Tel: 302 886 8566/800 327 0125
Fax: 302 886 5370

Supply active peptides, peptide antisera, neuroactive and other amino acids, enzyme substrates, inhibitors and peptide-derived oncoprotein antibodies for research as well as offering custom peptide synthesis, custom aminopeptide antibody manufacture, bulk peptide synthesis and radiolabelled peptides. Carrying out research on complementary synthetic peptide controls to oncoprotein antibodies, oncoprotein immunodiagnostic and immunoblotting kits, epitope scanning kits, synthetic peptide mimotope design kits, software, neuroendocrine markers and synthetic peptide antibodies to HIV.

Digital Instruments Corp

PO Box 9901, Newark, DE 19714-9901.
Tel: 215 255 4149

Supply densitometers, image analyzers and associated software.

Du Pont Company

Biotechnology Systems

Barley Mill Plaza, Wilmington, DE 19880-0024.
Tel: 302 992 4136/800 551 2121
Fax: 302 992 6448

Research, develop and manufacture a wide range of instruments and reagents for use in life science research, including automatic systems for DNA analysis, a complete line of centrifuges, radiolabelled compounds and reagents for cancer, virus, neuroendocrine, immune system and drug discovery research.

Du Pont Medical Products

Du Pont Diagnostics

Barley Mill Plaza (16-2120), Wilmington, DE 19898.
Tel: 302 992 4783/800 527 2601
Fax: 302 992 4442

Supply automated analyzers and microbiology instruments, chromatography equipment for gel filtration and ion exchange, electrophoresis accessories, computer software for clinical testing systems, prepared culture media, monoclonal and polyclonal antibodies, antigens, DNA probes, equipment for EIA, blood sampling systems, ultracentrifuges and wide range of diagnostics.

E I Du Pont De Nemours & Co Inc

1007 Market St, Wilmington, DE 19898.
Tel: 302 774 2421

331 Treble Cove Rd, North Billerica, MA 01862.
Tel: 800 225 1572

Major chemical company with increasing interests in agricultural and medical markets. Developing plant growth regulants. Involved in research on plant physiology and plant genetics as well as the development of interferon and other therapeutic products from molecular biology. Markets products of Biotech Research Labs Inc, US.

Engineered Systems & Designs Inc

119A Sandy Drive, Newark, DE 19713.
Tel: 302 456 0446/800 328 0516
Fax: 302 456 0441

Manufacture pH, conductivity, oxygen and turbidity instrumentation, portable/benchtop controllers, and pH, conductivity and oxygen electrodes.

Part II District of Columbia — DC UNITED STATES OF AMERICA

Hercules Inc

910 Market Street, Wilmington, DE 19899.
Tel: 302 575 5000 Telex: 835431

Manufactures a wide range of resins, films, fibre and plastic products, water-soluble polymers, flavours and fragrances, chemicals for water treatment and electronic products.

Monkman International Consulting

Breck's Mill on the Brandywine, PO Box 3760, Wilmington, DE 19807.

Tel: 302 658 7587 Telex: 272630 monk ur
Fax: 302 658 8548

Provides consultancy in the following areas: patents, licensing and joint ventures, market and technology studies, business venture plans, strategy and long-range planning, for both US and international clients in fields which include biotechnology, chemicals, energy, electronics, health care, pharmaceuticals and plastics.

Strategic Diagnostics Inc

128 Sandy Dr, Sandy Brae Ind Park, Newark, DE 19713.

Tel: 302 456 6789 Fax: 302 456 6770

Developing immunoassay-based test kits for environmental applications.

Triad Technologies Inc

A member of the Jacobs Engineering Group Inc

101 Centerpoint Boulevard, New Castle, DE 19720.
Tel: 302 323 1550 Fax: 302 323 1557

Engineering/consulting firm specializing in cGMP process and facility design, qualification, validation and regulatory compliance in the biopharmaceutical and healthcare industries.

TSD Bioservices

128 Sandy Dr, Newark, DE 19713.

Tel: 302 456 6790 Fax: 302 456 6770

Offers services in monoclonal antibody production, purification and processing.

District of Columbia — DC

American Association For Clinical Chemistry

1725 K Street NW, Suite 1010, Washington, DC 20005.

Tel: 202 857 0717

American Association for the Advancement of Science

1333 H Street NW, Washington, DC 20005.

Tel: 202 326 6400 Fax: 202 682 0816

American Chemical Society

1155 16th Street NW, Washington, DC 20036.

Tel: 202 872 4600/4363/800 227 5558

Telex: 440159/892582 Fax: 202 872 6005/4615

American Pharmaceutical Association

2215 Constitution Avenue NW, Washington, DC 20037.

Tel: 202 628 4410 Fax: 202 783 2351

American Society for Microbiology

1913 I Street NW, Washington, DC 20006.

Biomass Energy Research Association

Suite 218, 1825 K Street NW, Washington, DC 20006.

Tel: 202 785 2856

Promotes biomass energy through conferences and publications.

Bioscan Inc

4590 MacArthur Blvd NW, Washington, DC 20007.

Tel: 202 338 0974/800 255 7226

Telex: 751689 Fax: 202 333 8514

Supplies laboratory instrumentation including radiation counters and detectors, equipment for thin layer chromatography and radioactivity HPLC detectors.

Biotechnology Industry Organization (BIO)

1625 K St NW, Suite 1100, Washington, DC 20006-1604.

Tel: 202 857 0244

Trade association for companies involved in biotechnology to promote industrial applications, to interact with government bodies, to inform members of legislation etc. Arranges meetings and conferences. Formed by merger of Industrial Biotechnology Association (IBA) and Association of Biotechnology Companies (ABC).

Brewers' Grain Institute

1750 K Street NW, Washington, DC 20006.

Commissioner of Patents and Trade Marks

Patents Information

Washington, DC 20231.

Committee on Science & Technology

388 House Annex 11, Washington, DC 20515.

Tel: 202 226 3641

Congress of the United States

Office of Technology Assessment

Washington, DC 20510.

Carries out studies and reviews on the state of the art and impact from social, technical and scientific aspects of new areas of technology and publishes the results of such studies which include: regulations concerning biotechnology; genetic engineering and the potential of biomass (plant material) as a source of energy in the US; reports on commercial biotechnology.

Department of Commerce

14th between E and Constitution NW, Washington, DC 20230.

Tel: 202 377 3090 Fax: 202 377 2706

Affiliated organizations include National Bureau of Standards, National Technical Information Center and Environmental Research Laboratories.

Department of Energy

17th and Pennsylvania Avenue NW, Washington, DC 20006.

Department of Energy

Forrestal Building 1000, Independence Avenue SW, Washington, DC 20585.

Tel: 202 252 5810

Includes Office of the Environment and Office of Public Affairs.

Department of Energy

Office of Energy Research

20 Massachusetts Avenue NW, Washington, DC 20545.

Department of Health and Human Services

Public Health Service Food & Drug Administration

Bureau of Foods, 200 C Street SW, Washington, DC 20204.

Special Assistant to the Commissioner for Science, 5600 Fisher's Lane, Room 14-90, Rockville, MD 20857.

Tel: 301 443 4650

Department of the Interior

Office of Water Research and Technology

18th and C Streets, Washington, DC 20240.

Energy Service Co

B200 Walker Bldg, 734 15th Street NW, Washington, DC 20005.

Tel: 202 737 6018

Manufacture cell disintegrators, fractionators and pumps.

Environmental Protection Agency

EPA

401 M Street SW, Washington, DC 20460.

Foundation on Economic Trends

1130 17th St NW, Suite 630, Washington, DC 20036.

Tel: 202 446 2823

Carries out economic and technical studies as well as monitoring aspects of biotechnology such as legislation on the release of genetically manipulated organisms.

Foundation on Economic Trends

1130 17th Street NW, Suite 630, Washington, DC 20036.

Tel: 202 446 2823

J F Coates Inc

3738 Kanawha Street, Washington, DC 20015.

Tel: 201 966 9307

Consultants. Produced a report on implications of biotechnology for the National Bureau of Standards which covers certification of organisms and equipment, databanking of genetic information etc, and a report for the United States Environmental Agency on the consequences of regulation on the commercialization of biotechnology. In the current project, scientific and technological forecasts made in the area of biotechnology since 1970 are under review, evaluation, collation and interpretation.

National Academy Press

2101 Constitution Avenue, Washington, DC 20418.

National Agricultural Chemicals Association

1155 15th Street NW, Suite 900, Washington, DC 20005.

Tel: 202 295 1585

National Pharmaceutical Association

College of Pharmacy, Howard University, Washington, DC 20001.

National Pharmaceutical Council

1030 15th Street NW, Suite 468, Washington, DC 20005.

National Science Foundation

1800 G Street NW, Washington, DC 20550.
Tel: 202 357 9854

Includes: Directorate for Biological Behavioral and Social Sciences: Div of Physiology, Cellular and Molecular Biology; Div of Social and Economic Sciences; Div of Environmental Biology. Directorate for Engineering: Div of Applied Research; Div of Electrical, Computer and Systems Engineering; Div of Problem-Focused Research. Directorate for Science Education. Directorate for Scientific Technology and Internal Affairs.

National Solids Waste Management Association

1120 Connecticut Avenue NW, Washington, DC 20036.

National Water Resources Association

955 L'Enfant Plaza North SW, Washington, DC 20024.

Occupational Safety & Health Administration

Office of Information & Consumer Affairs
Room N-3637, US Dept of Labor, 200 Constitution Ave NW, Washington, DC 20210.
Tel: 202 523 8151 Fax: 202 523 5986

Pharmaceutical Manufacturers' Association

1100 15th Street NW, Washington, DC 20005.
Tel: 202 835 3550 Telex: 248496
Fax: 202 785 4834

The Proprietary Association

1700 Pennsylvania Avenue NW, Washington, DC 20006.
Tel: 202 393 1700

Renewable Fuels Association

499 South Capitol Street SW, Washington, DC 20003.

**United States Department of Agriculture
USDA-NAL-DCRC**

Room 1052 South, 12th and Independence Avenue SW, Washington, DC 20250.
Tel: 202 720 3434 Fax: 202 720 0342

Cooperative State Research Service: Room 304A,
Animal & Plant Health Inspection Service: Room 313E

Florida — FL

ABC Research Corp

3437 SW 24th Avenue, Gainesville, FL 32607.
Tel: 904 372 0436 Fax: 904 378 6483

The Applied Biotechnology department uses ELISA and other antibody-based assays to test for a wide range of contaminants and ingredients of interest to the food industry. These methods give high sensitivity detection of difficult analytes, many of which are not amenable to other analytical methods. Our ongoing department efforts are geared to providing the food industry with the most advanced rapid test methods possible.

Althin CD Medical Inc

14600 NW 60th Ave, Miami Lakes, FL 33014-9308.
Tel: 305 823 5240 Fax: 305 822 6217

Manufacture hollow fibre systems for the continuous production and recovery of secreted products from cell cultures.

American Dade

PO Box 520672, Miami, FL 33152.
Tel: 305 592 2311

Supplies a wide range of products for clinical laboratories including blood-typing serums, laboratory control reagents, diagnostic reagents, speciality laboratory ware and instrumentation and radioimmunoassays. Division of American Hospital Supply Corp, US.

American Gentech Corp

PO Box 720, Fort Myers, FL 33902.
Tel: 813 332 5551 Fax: 813 332 5375

Using cell culture, recombinant DNA and tissue culture technologies to produce somatic hybrids of citrus for improved stress and disease resistance.

American Radiochemical Corp

PO Box 1938, Sanford, FL 32771.
Tel: 305 365 3581

Supplies radioactive chemicals and other radioactive products.

Applied Genetics Labs Inc

1335 Galeway Drive, Suite 2001, Melbourne, FL 32901.
Tel: 407 768 2048 Fax: 407 727 2643

Develop and market DNA probes and a genetic toxicity test.

Baxter Healthcare Corp

Dade Division
PO Box 520672, Miami, FL 33152.
Tel: 305 592 2311/800 327 1572
Fax: 305 591 5552

Manufactures and markets reagents, controls and test systems for clinical laboratories and blood bankers worldwide including products for immunohaematology, haemostasis, haematology, chemistry and respiratory controls, radioimmunochemistry and immunoassay testing. Also offers liquid handling products and benchtop laboratory equipment.

Bio Safe Corporation

PO Box 432835, Miami, FL 33143.
Tel: 305 661 9587 Fax: 305 388 1580

Produce anaerobic culture equipment, biological safety cabinets, fume hoods, laboratory carts, and Class III containment gloveboxes.

Bio-Analytic Laboratories Inc

PO Box 388, Palm City, FL 34990.
Tel: 407 287 3340/800 327 8282
Fax: 407 287 3551

Produce clinical chemistry test kits and instrumentation.

BioAnalytics Inc

PO Box 388, Palm City, FL 33490.
Tel: 305 287 3340

Supply reagents for automated analyzer systems.

Biometra Inc

550 N Reo St, Tampa, FL 33609-1013.
Tel: 800 932 7250 Fax: 813 2875 163

Products include thermocyclers for a variety of applications including DNA amplification and sequencing.

Biotechnical Processes Inc

Castleton Beverage Corp
PO Box 26368, Jacksonville, FL 32218.
Tel: 904 757 1290 Fax: 904 757 1370

Construct and install anaerobic digestion plant for treatment of industrial wastewaters.

Biotechnology Institute for Technology Transfer

One Progress Blvd, PO Box 26, Alachua, FL 32615.
Tel: 904 462 3904 Fax: 904 462 5261

Established to commercialize University of Florida inventions, develop biotechnology products, market patents and support biotechnology companies. Areas of research and development include biopesticides, rDNA vaccines, diagnostic tools for plant, veterinary and medical use, tissue culture, plant genes and transformed plants.

Biotelemetry Inc

6520 Contempo Lane, Boca Raton, FL 33433.
Tel: 407 394 0315

Engineering contractors offering research and development services in biotelemetry and implantable electronics.

Clinical Supplies

3676 NW 16th St, Ft Lauderdale, FL 33311.
Tel: 305 581 8885 Telex: 4946289 nvtiro
Fax: 305 797 0374

Supply monoclonal and polyclonal antibodies, equipment and reagents for blood sampling and processing, histology and microbiology including stains, controls and standards as well as clinical diagnostics.

Coral Springs Improvement District

10300 North West 11th Manor, Coral Springs, FL 33065.
Tel: 305 753 0380

Investigating use of water hyacinth as a wastewater treatment system as well as studies on production of methane gas by anaerobic digestion of water hyacinth.

Coulter Corp

PO Box 169015, Miami, FL 33166-9015.
Tel: 800 327 6531 Fax: 305 380 8312

Manufactures and distributes equipment for counting and sorting cell types using light scattering or fluorescence techniques. Using a laser light source and multichannel data acquisition system analysis (based on any six of possible parameters) can sort up to 5000 cells per second, with results displayed on high-resolution graphic systems. Also supplies monoclonal antibodies of high specificity.

Coulter Immunology

440 West 20th St, Hialeah, FL 33010.
Tel: 305 883 6880/800 327 3778
Fax: 305 883 6899

Supplies immunological products including antibodies to human blood factors, B-cells, tumour antigens etc. Products include monoclonal and polyclonal antibodies. Division of Coulter Corp, US.

Part II Florida — FL UNITED STATES OF AMERICA

Diamedix Corp

formerly Cordis Laboratories Inc

2140 North Miami Ave, PO Box 37048, Miami, FL 33166.

Tel: 305 324 2329 Fax: 305 324 2395

Supplies laboratory diagnostic kits and immunological products for infectious and autoimmune diseases, ELISA test kits, complement and antisera.

Dvorkovitz and Associates

PO Box 1748, Ormond Beach, FL 32074.

Tel: 904 677 7033 Fax: 904 677 7113

Acts as an exchange for licence of technology on a subscription basis in areas of science and technology which include biotechnology and genetic engineering.

E-C Apparatus Corp

3831 Tyrone Blvd N, St Petersburg, FL 33709-4198.

Tel: 813 344 1644/800 EC RANGE

Telex: 514736 Fax: 813 343 5730

Supply equipment for electrofocusing, electrophoresis, DNA sequencing and immunodiffusion as well as densitometers and associated software.

University of Florida

Institute of Food & Agricultural Research

Department of Plant Pathology

Gainesville.

Tel: 904 392 3631 Fax: 904 392 6532

Carrying out research on genes for avirulence in plant pathogenic bacteria, genes for plant protection in plant viruses and genes for resistance in plants to plant pathogenic bacteria, viruses and fungi. Also carrying out research in biological control methods against fungi and weeds including the screening of microorganisms for the production of pesticidal compounds and evaluating the efficacy of fungal species, such as *Cercospora rodmani*, for use against water hyacinth.

University of Florida

Department of Agricultural Engineering

9 Roger's Hall, Gainesville, FL 32611.

Tel: 904 392 1864

Studying recycling of nutrients through growth of algal biomass on manure from a swine unit of 300 animals as well as investigating algal biomass as a source of protein feed or as raw material for biogas (methane) generation by anaerobic digestion.

University of Florida

Agricultural Experimental Station Department of Biochemistry & Molecular Biology

Gainesville.

Studying mode of action of cytoplasmic determinants conditioning male sterility in corn and sorghum and relationship to disease susceptibility. Also developing tissue culture methods and somatic hybridization and isolating episomal DNA from maize.

University of Florida

Interdisciplinary Center for Biotechnology Research

1301 Fifield Hall, Gainesville, FL 32611.

Tel: 904 392 8408 Fax: 904 392 8598

Coordinates biotechnology research activities at the University of Florida. Main areas offered include electron microscopy, flow cytometry, protein facility, DNA sequencing, DNA synthesis, plant containment, hybridoma and biological computing.

Future Medical Technologies International Inc

3874 Fiscal Ct., Suite 400, Riviera Beach, FL 33404.

Tel: 407 840 3684 Fax: 407 840 3683

Develops process monitoring control systems and software for use in diagnostic microbiology, including manifolds and image analysis systems.

Germfree Laboratories Inc

Equipment Manufacturing Division

7435 NW 41st St, Miami, FL 33166.

Tel: 305 592 1780/800 922 1780

Fax: 305 591 7280

Manufactures bacterial confinement systems.

Goodwin Biotechnology Inc

1850 NW 69th Ave, Plantation, FL 33313.

Tel: 305 321 5300 Fax: 305 587 6378

Contract producer of biological products; provides all the services required to develop a hybridoma cell line, both in vivo and in vitro production capabilities, process development, purification, protein modification, product formulation, sterile (aseptic) filling and labelling. These services are available for the production of both research and clinical grade materials. All services for clinical grade material are performed within strict compliance with GMP requirements. All services are performed on site, with the exception of the specialized quality assurance testing which is performed by an outside testing agency. GBI schedules and coordinates all testing and makes all arrangements.

Goodwin Institute for Cancer Research Inc

1850 NW 69th Avenue, Plantation, FL 33313.

Tel: 305 587 9020 Fax: 305 587 6378

Cancer research group focusing on the rational use of chemotherapeutics and monoclonal antibodies for the detection and treatment of various tumours as well as evaluation of antiviral drugs and vaccines using in vivo/in vitro herpetic models. Expertise in hybridoma development and production and human tumour xenograft growth has allowed for the generation of a number of paired in vitro/in vivo xenograft tumour models suitable for the pre-clinical evaluation of novel therapeutic agents. Have recently developed and characterized a spontaneously metastasizing human breast xenograft tumour model. Seeking collaborative research partnerships capable of utilizing these tumour and HSV model systems for the evaluation of new treatment modalities.

Harbor Branch Oceanographic Institution

Division of Biomedical Marine Research

5600 US 1 North, Fort Pierce, FL 34946.

Tel: 407 465 2400 Fax: 407 461 2221

Activities include discovery of bioactive molecules from marine invertebrates; expertise in acquisition of marine organisms; screening for bioactive molecules relevant to the pharmaceutical industry; and natural products chemistry. Source of marine natural products for high-throughput screening laboratories.

ImmunoVet Inc

5910-G Breckenridge Parkway, Tampa, FL 33610.

Tel: 813 621 9447 Fax: 813 621 0751

Produce vaccines including a rabies vaccine and immunotherapeutics.

IN/US Systems Inc

5809 North 50th St, Tampa, FL 33610-4809.

Tel: 813 626 6848 Fax: 813 620 3708

Manufacture radioactivity monitoring systems for measurement of eluants from HPLC systems. With four channels the instrument can be used with two isotopes and two non-isotopic detection systems (UV or luminescence).

Innovet Inc

1655 Palm Beach Lakes Blvd, Suite 510, West Palm Beach, FL 33401.

Tel: 407 687 8088

Develops and markets pharmaceuticals and biologicals for human and animal health care, including speciality feeds for dairy cattle and medical diagnostics.

Life Sciences Inc

2900 72nd St N, St Petersburg, FL 33710.

Tel: 813 345 9371/800 237 4323

Fax: 813 347 2957

Carrying out research on animal genetics as well as viruses, interferon, DNA modifying enzymes, nude mice and DNA diagnostic testing.

Medicore Inc

2343 W. 76 St., Hialeah, FL 33016.

Tel: 305 558 4000

Produces therapeutics, interferon and MABs. Formerly Automated Medical Labs.

Miami Serpentarium Labs

34879 Washington Loop Rd, Punta Gorda, FL 33982.

Tel: 813 639 8888/800 248 5050

Telex: 272565 serp Fax: 813 639 1811

Produce snake and reptile venoms.

University of Miami

Office of Technology Transfer (R-64)

1600 NW 10 Avenue, Miami, FL 33136.

Tel: 305 547 5689 Fax: 305 547 3549

PO 016960 (R-64), Miami, FL 33101

Offer a wide range of shared facilities at the School of Medicine for R&D and pathology resources. Currently carrying out R&D on blood diseases, burns, cancer, child development, diabetes, eye diseases, liver organ diseases, orthopedic rehabilitation, comprehensive pain, transplantation, clean energy, molecular and cellular evolution, remote sensing, AIDS, Alzheimer's, spinal injuries and heart diseases. Have a number of techniques and devices for licensing.

Milton Roy Co

LDC Division

PO Box 10235, Riviera Beach, FL 33404.

Tel: 407 844 5241/800 LDC HPLC

Telex: 513479

Manufactures liquid chromatography equipment including high performance liquid chromatography pumps, detector systems, sample injectors and data recording and integration devices and software.

Modern Talking Picture Service Inc

5000 Park St North, St Petersburg, FL 33709.

Tel: 813 541 7571 Fax: 813 546 9323

Distributor of educational videos, films and documentaries including coverage of biotechnology in agriculture. Titles available for purchase and on a free-loan basis.

Molecular Genetic Resources Inc

6201 Johns Road, Suite 8, Tampa, FL 33634.
Tel: 813 886 5338 Fax: 813 881 1589

Manufactures enzymes and products for genetic engineering including reverse transcriptase of high purity, transferase and an mRNA analysis kit.

Munters Corporation

PO Box 6428, Fort Myers, FL 33911.
Tel: 813 936 1555 Telex: 52785

Manufactures fixed film anaerobic digesters for treatment of potato and vegetable wastes on a commercial scale.

Mycogel Laboratories Inc

PO Box 6548, West Palm Beach, FL 33405.
Tel: 407 659 1764

Produce prepared mycology culture media and test plates.

North American Biologicals Inc

16500 North-West 15th Avenue, Miami, FL 33169.
Tel: 305 625 5303/800 327 7106
Telex: via ITT 4949797 Fax: 305 625 0925

Collects and manufactures human blood and blood products for the therapeutic and diagnostic markets. Also offers human tissue culture and quality assurance reagents for the infectious disease testing market.

PCP Inc

2155 Indian Rd, West Palm Beach, FL 33409-3287.
Tel: 407 683 0507/800 637 5307
Fax: 407 683 0507

Supply trace chemical detection equipment. Offer research and development services.

Petroferm Inc

5400 First Coast Highway, Suite 200, Fernandina Beach, FL 32034.
Tel: 904 261 8286 Telex: 802628

Markets polysaccharide, known as emulsan, for use in dispersal of oil spills, personal care products, emulsion stabilizer etc. Developing the use of microbial organisms in producing improved fuels. Subsidiary of Petroleum Fermentations NV, Netherlands Antilles.

Pharmatec Inc

PO Box 730, County Rd 2054, Alachua, FL 32615.
Tel: 904 462 1210/800 526 8222
Telex: 269332 phc ur Fax: 904 462 5401

Developing novel drug delivery technologies including a brain delivery system based on chemically modified cyclodextrins.

Pharmos Corporation

2 Innovation Drive, Alachua, FL 32615.
Tel: 904 462 1210 Fax: 904 462 5401

Developing pharmaceutical products, based on proprietary drug delivery systems, for use in neurology and ophthalmology.

Technimed Corp

4987 NW 23rd Ave, Ft Lauderdale, FL 33309.
Tel: 305 485 8443/800 232 8633
Telex: 514814 Fax: 305 485 8447

Supply monoclonal and polyclonal antibodies, antigens, blood fractions, reagents, standards and controls in clinical chemistry, EIA and RIA as well as a wide range of test kits.

Trace-America

7260 NW 58th St, Miami, FL 33166.
Tel: 305 592 8221/800 872 2313
Telex: 4974313 trace Fax: 305 477 0256

Manufacturer and supplier of diagnostic chemistry reagents, clinical chemistry analyzers, flow cytometry reagents and consumables as well as FBS media and cell and tissue growth promoters and inhibitors.

United States Department of Agriculture

Horticultural Research Laboratory

2120 Camden Road, Orlando, FL 32803.
Tel: 407 897 7300 Fax: 407 897 7309

Producing improved varieties of citrus trees with better resistance to disease and pests and higher tolerance to environmental conditions using conventional hybridization as well as genetic engineering techniques.

University Genetics Co

5299 West Lantana Rd, Lake Worth, FL 33463.
Tel: 305 969 0802 Fax: 305 969 0804

Technology-funding company which finances university research in genetic engineering. Assists in filing patents and negotiating licences with industry. Developing monoclonal cells and embryos for cloning and culturing plants.

USA Scientific Plastics Inc

PO Box 3565, Ocala, FL 32678.
Tel: 904 237 6288/351 1133/800 522 8477
Fax: 904 351 2057

Supply products for electrophoresis, blotting, cell and tissue culture, DNA and RNA sequencing, filtration and centrifugation as well as labware and liquid handling apparatus, acrylic radiation safety/shielding equipment and programmable thermal controller. Also promotes an extensive line of microcentrifuge tubes and pipet tips.

Viragen Inc

2243 West 76th St, Hialeah, FL 33016.
Tel: 305 557 6000 Fax: 305 557 1163

Vira-Tech Inc, 2243 West 76th St, Hialeah, FL 33016.
Tel: 305 556 0735 Fax: 305 364 8158

Developing techniques for radioimmunoassay of cancers and other disorders as well as hybridoma technology and production of antiviral and antitumour products including interferon, peptides and therapeutics.

World Precision Instruments Inc

175 Sarasota Center Blvd, International Trade Center, Sarasota, FL 34240-9258.
Tel: 813 371 1003 Fax: 813 377 5428

Supply a wide range of laboratory equipment for the life sciences including ion selective electrodes and others, tissue processors and transport kits, a fibre optic spectrometer and data acquisition systems.

Georgia — GA

Advanced Technology Development Center

430 Tenth St NW, Suite N116, Atlanta, GA 30318.
Tel: 404 894 3575 Fax: 404 894 4545

Technical innovation centre situated at the Georgia Institute of Technology includes Athens Research and Technology, developing human and veterinary diagnostics, and Horizon MicroEnvironments, developing gas permeable, non-porous, continuous surface membranes impermeable to bacteria or viruses.

Alcot Chromatography

1770 Corporate Drive, Suite 550, Norcross, GA 30093.

Tel: 404 279 2521 Fax: 404 279 9153

Manufactures HPLC autosamplers, chromatography accessories and detectors.

Alcott Chromatography Inc

5300 Oakbrook Parkway, Suite 100, Norcross, GA 30093.

Tel: 404 279 2521 Telex: 2799142
Fax: 404 279 9153

Supply liquid chromatography and HPLC pumps, autosamplers and accessories, sample handling equipment and high pressure valves.

Athens Research and Technology

1180 E Broad Street, Athens, GA 30601.
Tel: 706 546 0207 Fax: 706 542 6776

Produce ART biochemicals and diagnostic assays for animal and human diseases as well as human plasma proteins and protein inhibitors.

Biosystems Inc

762 US Highway 78, Loganville, GA 30249.
Tel: 404 466 1511

Research and development company offering services in microbiology as well as the production of monoclonal antibodies.

Chromatix Inc

2558 Mountain Industrial Blvd, Tucker, GA 30084.
Tel: 404 493 7000 Fax: TWX: 810 766 8099

Manufactures analytical laboratory equipment, including instruments for light-scattering measurement, gel permeation and liquid chromatography.

CTC Organics

PO Box 6933, Atlanta, GA 30315.
Tel: 404 524 6744 Fax: 404 577 1651

Supplies semi-bulk organic intermediates of unusual nature.

CytRx Corporation

154 Technology Parkway, Norcross, GA 30092.
Tel: 404 368 9500 Fax: 404 448 3357

Developing a series of proprietary compounds and related amphoteric molecules for use as critical care therapeutic agents. These molecules are able to alter the universal property of how cells and molecules interact with water. The company believes that by modulating this universal property in a quasi-specific manner, a therapeutic affect can be achieved without significant toxicity. Has established the capability to synthesize a wide variety of potential therapeutic agents based on this technology with applications in a range of pathological conditions. Molecules for use in the areas of oncology, immunology and cardiovascular and infectious diseases are in various stages of development (preclinical to clinical). The first product resulting from this technology, targeted for the treatment of vascular occlusive diseases, appears to adhere to the surfaces of cell membranes to provide rheologic, anti-thrombotic and cytoprotective properties to the patient. The product is in phase III development for myocardial infarction and phase II for the treatment of cerebral malaria and sickle cell crisis. Licensed on an exclusive basis to Burroughs Wellcome Co who are wholly responsible for its development and marketing worldwide.

Part II Hawaii — HI UNITED STATES OF AMERICA

Department of Health and Human Services

Center for Disease Control
1600 Clifton Road, North-East Atlanta, GA 30333.

GEMU Valves Inc

3800 Camp Creek Pkway, Bldg 2400, Suite 102,
Atlanta, GA 30332.
Tel: 404 344 8970 Fax: 404 344 9350

Distributes plastic, metal and sanitary valves
manufactured by GEMU Gebr Mueller Apparatebau
GmbH.

Georgia Institute of Technology

Engineering Experiment Station

Atlanta.

Tel: 404 894 3589

Developing a cellulose-to-ethanol process using
yeast fermentation of feed material obtained by
'steam explosion' of wood to yield lignin cellulose
and hemicellulose components followed by acid
hydrolysis.

University of Georgia

Biotechnology Program

Athens.

Tel: 404 542 5982

Facilitates university research in biotechnology with
main focus on basic plant molecular biology,
complex carbohydrates, fermentation of biomass to
useful feedstock, physiology and enzymology of
anaerobic bacteria and fungi.

Georgia Biomedical Partnership

750 Commerce Drive, Suite 201, Decatur, GA
30030.

Tel: 404 378 8000 Fax: 404 378 3397

Support biomedical research and development,
building on the specialities of associated research
organizations.

Health Science Technology Center

Medical College of Georgia, FM-D1, Augusta, GA
30912.

Tel: 404 721 2812

Resource centre set up to offer access to university
resources in biotechnology and in particular to
support and encourage start-up and relocated health
science-related technology enterprises in Georgia
and to create jobs, businesses and products. A
branch of the Advanced Technology Development
Center (ATDC) at the Georgia Institute of
Technology, Atlanta.

Immucor Inc

3131 Gateway Drive, Norcross, GA 30071.

Tel: 404 441 2051 Telex: 543641

Products include blood bank reagents, assay systems
to detect antibodies to platelets and unexpected
antibodies to red cells. Using recombinant DNA and
hybridoma/cell fusion techniques to develop
monoclonal antibodies to human blood groups as
well as diagnostic tests for infectious diseases.

International Society for Plant Molecular Biology

Department of Biochemistry, University of Georgia,
Athens, GA 30602.

Lee Laboratories

1475 Highway 78 SW, Grayson, GA 30221.

Tel: 404 972 4450 Telex: 550567

Fax: 404 979 9570

Manufacturer of immunodiagnostic products.
Custom products include bacterial/fungal antisera,
purified antibodies and antigen suspensions. Custom
services include fermentation, immunization,
conjugation, purification and packaging. Produces
syphilis reagents for FTA-ABS, USR, VRL and
other testing systems.

Murex Corp

3075 Northwoods Circle, PO Box 2003, Norcross,
GA 30071.

Tel: 404 662 0660/800 82 MUREX

Fax: 404 447 4989

Developing diagnostics, monoclonal antibody
reagents and antibody kits including test kits for
Rubella antibodies, Strep A, and Toxoplasma
antibodies.

Porex Technologies Corp

500 Bohannon Rd, Fairburn, GA 30213.

Tel: 404 964 1421 Telex: 4611040

Fax: 404 969 0954

Manufacture and market sample preparation devices.

Probiologics International Inc

1400 Lake Hearn Drive NE, Atlanta, GA
30319-1464.

R&D company producing new probiotics and
antibiotics with applications in human health care
and veterinary treatment.

Rhone Merieux Inc

115 Transtech Drive, Atlanta, GA 30601.

Tel: 706 548 9292 Fax: 706 543 1667

Produce pharmaceuticals, diagnostics and veterinary
products including vaccines.

SEAI Technical Publications

PO Box 590-E, Madison, GA 30650.

Tel: 404 342 9638

Consultancy organisation producing multiclient
studies and technical reports on areas such as
biosensors.

Select Laboratories

1168 Airport Pkwy., P.O. Box 2415, Gainesville,
GA 30503.

Tel: 404 536 8787 Fax: 404 534 8558

Produce veterinary vaccines. A division of Rhone
Merieux.

Shared Systems Inc

3961 Columbia Rd, Suite B, Martinez, GA 30907.

Tel: 706 868 0408 Fax: 706 855 6588

Produce rapid ELISA systems for diagnostic
applications.

Southern Micro Instruments Inc

120 Interstate North Pkwy East, Suite 308, Atlanta,
GA 30339.

Tel: 404 956 0343/800 241 3312

Fax: 404 953 4490

Manufacture a wide range of optical microscopes
and accessories including fluorescence, hot stage,
operating, phase contrast, stereo and student
systems.

Transgenic Products Inc

5505 Peachtree Dunwoody Rd, Suite 400, Atlanta,
GA 30342.

Tel: 404 250 5647 Fax: 404 257 0792

Developing recombinant DNA technology for
mammary gland expression of proteins and peptides
in domestic animals.

United States Department of Agriculture

R B Russell Agricultural Research Center

PO Box 5677, Athens, GA 30613.

Tel: 706 546 3314 Fax: 706 546 3412

Investigating physiology and biochemistry of
photosynthesis and establishing differing traits
among plant species which may then be used as a
base for increasing crop productivity and quality
through genetic engineering. Investigating
regulation of synthesis of carboxylases using
immunochemical techniques.

Universal Scientific Inc

2935 B Amwiler Rd, Atlanta, GA 30360.

Tel: 404 441 1134/800 992 SORB

Fax: 404 441 3402

Manufactures silica gel and alumina adsorbents for
preparative LC, HPLC and TLC as well as
speciality HPLC and simple preparative columns.

Hawaii — HI

Aphton

487 A Portlock Road, Honolulu, HI 96825.

Tel: 808 395 6188

Produces therapeutics for colorectal/gastric cancer,
chronic peptic ulcers and HIV.

Cyanotech Corp

PO Box 4384, Kailua-Kona, HI 96740.

Tel: 808 326 1353 Fax: 808 329 3597

Manufactures phycobiliproteins from algae for use
as fluorescent markers in medical diagnostics and
research based on flow cytometry, image analysis
and immunoassay. Also manufactures Spirulina,
which has applications as a complete food
supplement, and beta-carotene, which may have a
role as a cancer preventative. Presently engaged in a
research and development contract to develop a feed
ingredient.

Hawaii Biotechnology Group Inc

99-193 Aiea Heights Drive, Aiea, HI 96701.

Tel: 808 487 5561

Offer contract research in immunochemistry of
natural products and viral vaccine development
using techniques of molecular biology and
monoclonal antibodies. Market monoclonal
antibodies which recognize DNA-RNA hybrids.

University of Hawaii

Department of Biosystems Engineering

Honolulu.

Tel: 808 956 8186 Fax: 808 956 9269

Carrying out work in bioprocessing of plant cell
cultures for the production of useful metabolites;
design of perfusion system for high density cell
culture; development of continuous fungal
bioprocesses for the production of recombinant
proteins; entrapped microbial cells for waste water
treatment; automation of micropropagation.

University of Hawaii

Department of Plant Pathology

3190 Maile Way, Honolulu, HI 96822.

Tel: 808 956 2838 Fax: 808 956 2832

Investigating the mechanisms of enhanced plant growth resulting from associations between roots and populations of bacteria such as *Pseudomonas* which excrete iron chelators such as the peptide pseudobactin.

University of Hawaii

Biotechnology Program

Gilmore Hall 410, 3050 Maile Way, Honolulu, HI 96822.

Tel: 808 948 8329

Hawaiian Research Ltd

PO Box D, Kaunakaki, Molokai, HI 96748.

Tel: 808 553 5070

Offer contract services in field trials for new strains of crop plants.

Hawaiian Sugar Planters Association

99-193 Aiea Heights Drive, PO Box 1057, Aiea, HI 96701.

Tel: 808 487 5561 Fax: 808 486 5020

Research and development association for the cane sugar industries in Hawaii. Activities include cane breeding and work on plant tissue culture of sugar cane, disease resistance, photosynthesis and transport of sucrose in plants.

Moana Bioproducts Inc

3615 Harding Ave, Suite 507, Honolulu, HI 96816.

Tel: 808 732 1420 Fax: 808 732 6229

Supply pure okadaic acid and other research biochemicals.

Idaho — ID

University of Idaho

Department of Chemical Engineering

Moscow.

Tel: 208 886 6793 Fax: 208 885 7462

Developing aerobic and anaerobic bioremediation processes using bacteria to degrade nitro and chloro aromatic compounds. Also developing a process for the conversion of vegetable oils into a diesel fuel substitute.

University of Idaho

Institute for Molecular and Agricultural Genetic Engineering (IMAGE)

Moscow.

Tel: 208 885 6580 Fax: 208 885 5741

Carrying out research on bioremediation, bioengineering, bioreactor design, biohydrometallurgy, biocontrol, bioconversion, fate of GEMS, plant breeding and pathology, animal breeding and pathology and bacterial toxins.

Illinois — IL

A E Staley Manufacturing Co

2200 East Eldorado Street, Decatur, IL 62525.

Tel: 217 423 4411 Telex: 250113 decatur

Fax: 217 421 2881

Manufactures glucose and high fructose glucose syrups and other corn products. Has investment in Bio-Technical Resources Inc, US. Carrying out research on enzymes, speciality chemicals and protein isolates.

Aaron Equipment Co

Box 80, 735 E Green St, Bensenville, IL 60106.

Tel: 708 350 2200 Fax: 708 350 9047

Construct and install ethanol plant from reconditioned parts.

Abbott Laboratories

Diagnostics Division

Dept 90H, Abbott Park, IL 60064.

Tel: 708 937 4196/800 323 9100/800 888 8237

Fax: 708 937 2353

Produce a wide range of diagnostic test kits for therapeutic drug monitoring as well as instrumentation and reagents including automated analyzers, monoclonal and polyclonal antibodies, antigens, computer systems, EIA equipment and reagents, blood bank reagents and UV/VIS spectrophotometers and ancillary equipment.

Abbott Laboratories

Chemical and Agricultural Products Division

1401 N Sheridan Road, North Chicago, IL 60064.

Tel: 708 937 5841/800 323 9597

Fax: 708 937 6676

Produces pharmaceutical, immunological and other health-care products and agrochemicals including antibiotics (penicillin, erythromycin), plant growth hormones (gibberellins), biological control agents (*Bacillus thuringiensis*, insecticides) and other microbiological products such as soil inoculants, with applications in agriculture and forestry. Has research group in genetic engineering looking at applications in pharmaceuticals, diagnostics, agricultural and nutritional products, and enzymes including human urokinase. Developing diagnostics and therapeutics based on monoclonal antibodies. Major supplier of assays for drug abuse tests, AIDS tests for NIH screening and hepatitis B.

Affiliated Scientific Inc

PO Box 437, 604 Rollins Rd, Ingleside, IL 60041.

Tel: 708 740 0285

Manufactures diagnostics and therapeutics.

Alltech Associates Inc

2051 Waukegan Rd, Deerfield, IL 60015.

Tel: 708 948 8600 Telex: 6871132 altec

Fax: 708 948 1078

Applied Science Division: PO Box 440, State

College, PA 16804.

Tel: 814 238 2406 Fax: 814 234 3594/800 437 3784

Supplies reagents, standards, adsorbents, accessories etc, for gas/liquid, liquid, high performance liquid and thin layer chromatography and pharmaceuticals.

American Medical Association

535 North Dearborn Street, Chicago, IL 60610.

American Society of Clinical Pathologists

2100 W Harrison St, Chicago, IL 60612.

Tel: 312 738 4890/800 621 4142

Produce publications on clinical pathology and computer software for hospital clinical testing datatypes.

American Veterinary Medical Association

1931 N Meacham Rd, Suite 100, Schaumburg, IL

60173-4360.

Tel: 708 925 8070

Professional association. Membership open to qualified veterinary practitioners. Functions to maintain standards. Promotes research and development of health care in animals. Acts as a forum for the exchange of information and ideas which are disseminated through its various journals including *Journal of the American Veterinary Medical Association* and *American Journal of Veterinary Research*.

Amersham Corp

2636 South Clearbrook Drive, Arlington Heights, IL 60005.

Tel: 708 593 6300/800 323 9750

Fax: 708 593 8236/1044

Supplies radioactive and non-radioactive products for research in life sciences and health care (see Amersham International, UK).

Amoco Technology Co

55 Shuman Blvd, Suite 600, Naperville, IL 60563.

Tel: 708 717 2283 Fax: 708 717 7388

Developing diagnostics using rDNA and fermentation techniques. Products include diagnostics for AIDS and infectious diseases; DNA probes for *Salmonella*, *E Coli* and *Listeria*; speciality chemicals and software for research.

Amoco Technology Co

PO Box 3011 MC F-2, Naperville, IL 60563.

Tel: 708 420 5875 Fax: 708 420 3845

Operating under the name Imagenetics, supplies instrumentation and reagents for detecting genetic diseases.

Analytic Parameters

PO Box 25035, Chicago, IL 60625.

Tel: 312 465 2792 Fax: 708 866 1808

Supplies a wide range of scientific and analytical equipment including chromatographic accessories and detectors, densitometers, apparatus for electrophoresis, electrofocusing and immunoelectrophoresis, apparatus for immunodiffusion; radioautographic equipment, sample applicators, UV/VIS and laser scanners.

ANGUS Chemical Co

Alberta Natural Gas United States

2211 Sanders Rd, Northbrook, IL 60062.

Tel: 708 498 6700/800 323 6209

Fax: 708 498 6706

Supplies high purity tris(hydroxymethyl)aminomethane buffer in ultra pure, molecular biology and technical grades.

APV Crepaco Inc

9525 W Bryn Mawr Ave, Rosemont, IL 60018.

Tel: 708 678 4300 Fax: 708 678 4407

Supplies fermenters and bioreactors including large scale air lift systems for culture of animal cell lines. Subsidiary of APV plc (UK).

Part II Illinois — IL UNITED STATES OF AMERICA

Archer Daniels Midland Co

4666 Farles Parkway, PO Box 1470, Decatur, IL 62525.

Tel: 217 424 2675 Fax: 217 424 5447

Major producer of feed grade amino acids. Produces glucose syrups and large-scale fuel alcohol from corn. Using and researching enzyme methods of saccharification including studies of immobilized systems. Investigating improved fermentation systems for large-scale production. Private label, toll manufacturer of fermentation products for the food and feed industry.

The Barnant Co

28 W 902 Commercial Ave, Barrington, IL 60010.
Tel: 800 637 3739 Fax: 708 381 7053

Manufactures pH electrodes and meters. Division of Cole-Parmer Instrument Co, US.

Baxter Healthcare Corp

One Baxter Parkway, Deerfield, IL 60015.
Tel: 708 948 2000 Fax: 708 948 3948

Major producer of pharmaceutical products, including diagnostics distributed through its Clinical Assays Division which produces radioimmunoassay kits. Carrying out R&D in cell biology and medical areas related to immunological products. Has joint agreement with Genetics Institute, US to develop recombinant DNA processes to produce blood-clotting factor VIII. Products under development include AIDS diagnostics, monoclonal antibodies, TPA, gamma-interferon, interleukin-2 and alpha-fetoprotein radioimmunoassay kit.

Baxter Healthcare Corp

Pandex Division

909 Orchard Street, Mundelein, IL 60060.
Tel: 312 949 6700/800 472 6339
Fax: 312 949 6730

Markets equipment for screening of hybridomas based on fluorometric immunoassay.

Baxter Scientific Products Division

1430 Waukegan Road, McGaw Park, IL 60085-6787.

Tel: 312 689 8410 Fax: 312 473 1397

Supplies a wide range of equipment and reagents for life sciences including automated analyzers, immunological equipment and reagents, equipment and media for bacterial and cell culture, disinfectants and antibiotics, colony counters, sterilizers, analytical balances etc as well as a wide range of clinical test kits. Part of Baxter Healthcare Corp.

Bernard Wolnak & Associates

180 North Michigan Avenue, Suite 1016, Chicago, IL 60601.

Tel: 312 782 4926 Fax: 312 782 0894

Management consultancy firm specializing in the economics and technology of fermentation and biotechnology products, eg antibiotics, enzymes, vitamins, acids, polysaccharides and proteins based on rDNA technology.

Biohytech International Inc

3301 West Pershing Rd, Chicago, IL 60632.
Tel: 312 247 3379 Fax: 708 453 4480

Produces and distributes ELISA immunodiagnostic kits for medicine and research. Kits for autoimmune disease can detect antibodies to most of the common nuclear antigens which have clinical and investigational significance.

BioLabs Inc

15 Sheffield Court, Lincolnshire, IL 60069-3161.
Tel: 708 945 2767

Offer consulting services in biotechnology including company start-ups and turnarounds.

Biollipids Pharmaceutical Corp

2293 Keim Rd, Naperville, IL 60565-4004.
Tel: 788 369 8099 Fax: 312 338 5270

Supply enzymes and substrates as well as reagents for EIA and therapeutic and OTC products.

Biologos Inc

PO Box 920, Naperville, IL 60566.
Tel: 708 961 2440 Fax: 708 961 2443

Supply products for separation and purification including foetal bovine serum. Also supply products for tissue culture and other biologicals.

Bion Enterprises Ltd

674 Busse Highway, Park Ridge, IL 60068.
Tel: 708 692 9333 Fax: 708 692 4747

Supply diagnostic reagents for immunology and virology.

Biosynth International Inc

PO Box 541, Skokie, Illinois 60076.
Tel: 708 674 5160 Fax: 708 674 8885

Supply bulk biochemicals and substrates for microbiology, microbial diagnostics and molecular biology.

Biotech Consulting International

17W 697H Roosevelt Rd, Suite 187, Oakbrook Terrace, IL 60181.

Tel: 708 830 7338 Fax: 708 932 8941

Offer services in marketing and market research, strategic planning, product development, bioprocess engineering, scale up, regulatory affairs and QA.

Biotechnical Consulting Ltd

17W 697H Roosevelt Rd, Suite 187, Oakbrook Terrace, IL 60181.

Tel: 708 830 7338 Fax: 708 932 8941

Offers services in scale-up, strategic planning, marketing and regulatory affairs related to the bulk production of antibiotics, biologicals, MAbs, SCPs and vaccines.

Bohdan Automation Inc

1500 McCormick Blvd, Mundelein, IL 60060.
Tel: 708 680 3939 Fax: 708 680 1199

Manufacture automated sample preparation workstations utilizing robotics to weigh, pipet, dispense liquids/powders, solid-phase extract (SPE), measure pH, filter, evaporate, homogenize, inject, decap/cap, centrifuge and read bar-codes.

Candida Corp

175 West Jackson Boulevard, Suite A-1706, Chicago, IL 60604.

Tel: 312 431 1601 Fax: 312 431 1605

Management consultants in biological and chemical process technology.

Chicago University

Pritzker School of Medicine Department of Biochemistry

5801 South Ellis Avenue, Chicago, IL 60637.

Studying expression of insulin genes in neoplasia.

Cole-Parmer Instrument Co

7425 North Oak Park Avenue, Niles, IL 60714-9930.
Tel: 708 647 7600/800 323 4340

Telex: 289405 Fax: 708 647 9660

Manufacture a range of multichannel peristaltic pumps with precise digital control which allows repeatable flow at rates as low as 0.001 ml per minute, with 4, 8, 12 or 16 channels. Other products include affinity chromatography supports, columns and accessories for gas chromatography and HPLC, automated sampler preparation systems, densitometers and electrophoresis equipment and gels.

Continental Grain Co

10 South Riverside Plaza, Chicago, IL 60606.

Tel: 312 930 1050

Shareholder in Calgene Inc, US which is investigating applications of molecular biology techniques to agriculture.

Crystal Chem Inc

PO Box 60225, Chicago, IL 60660.

Tel: 312 764 3549 Fax: 312 764 8666

Manufacture and supply immunochemicals and biochemicals including recombinant human proteins and blood proteins, hormones, monoclonal and polyclonal antibodies, nucleotides and nucleosides.

Culligan International Co

1 Culligan Pkwy, Northbrook, IL 60062.

Tel: 708 205 6000 Telex: 277892 cgfr

Fax: 708 205 6030 3260

Manufacture deionizers, reverse osmosis system, membrane filters and ultrafiltration equipment as well as systems for deionized water.

DEKALB Plant Genetics

3100 Sycamore Road, Dekalb, IL 60115.

Tel: 815 756 3671 Telex: 210097 kalb ur

Fax: 815 758 3711

International researcher, producer and marketer of corn, soybeans, grain sorghum, alfalfa and forage sorghum. The company is involved in developing new technology to improve the efficiency of field breeding efforts and eventually to make genetic improvements which are not possible with traditional methods including hybrid seeds.

The Dial Corp

Glycerine Department

2000 Aucutt Road, Montgomery, IL 60538.

Tel: 312 892 4381 Telex: 720497

Produces glycerol and fatty acids. Subsidiary of The Greyhound Co, US.

Diosynth Inc

3432 West Henderson Street, Chicago, IL 60618.

Tel: 312 583 3134/800 621 1509

Telex: 255209 Fax: 312 583 7976

Operating group of the Akzo Pharma Division that manufactures heparin, biochemicals, steroids, peptides, opiate derivatives and assorted generic drug substances. Custom manufacturing services are available for organic chemical transformations as well as monoclonal antibody production scale-up and rDNA syntheses.

Diversified Biomedical Technologies Inc

1110 Thackeray Drive, Suite 170, Palatine, IL 60067.
Tel: 708 934 8080 Fax: 708 934 8125

Offer management consultancy services with respect to technology, quality systems and regulatory affairs in diagnostics, clinical tests, instrumentation and reagents.

Esox Inc

3864 Swanson Court, Gurnee, IL 60031.
Tel: 708 336 6600 Fax: 708 336 6628

Produces custom biochemicals and biologicals, develops immunoassays and provides a contract R&D service to biotechnology companies.

Farmer's Manufacturing Co Inc

Rural Rte 1, Dorsey, IL 62021.
Tel: 618 377 6237

Produce bacterial soil inoculants.

Fertility and Genetics Research Inc

135 La Salle Street, Suite 616, Chicago, IL 60603.
Tel: 312 236 5492

Developing techniques of non-surgical human ovum transfer.

Gaertner Scientific Corp

1201 Wrightwood Ave, Chicago, IL 60614.
Tel: 312 281 5335 Fax: 312 281 5591

Manufactures microscopes and ellipsometers for measuring the thickness of thin films and polarimeters.

Gas Research Institute

8600 West Bryn Mawr Avenue, Chicago, IL 60631.
Tel: 312 399 8229

Funds and manages programmes on: anaerobic digestion of biomass and waste materials to form high BTU biogas; bioremediation of contaminated soils; above-ground and in-situ water treatment processes; biocorrosion and hydrogen sulphide production in gas production, transportation and storage systems; biological production of chemicals from methane; probe/sensor development for laboratory and field applications.

Global Marketing Ltd

9030 N Clifton Ave, Niles, IL 60714.
Tel: 708 803 8656 Fax: 708 673 1516

License proprietary organic formulae for fertilizers and feed stimulants for manufacture internationally.

Griffith Laboratories Inc

1 Griffith Center, Alsip, IL 60658.
Tel: 312 371 0900 Telex: 254413

Produces seasonings and ingredients for the food industry.

Gynex Pharmaceuticals Inc

1175 Corporate Woods Pkwy., Vernon Hills, IL 60061.
Tel: 708 913 1144 Fax: 708 913 9919

Manufactures pharmaceuticals including oral contraceptives.

IIT Research Institute

10 West 35th St, Chicago, IL 60616-3799.
Tel: 312 567 4850 Telex: 282472

Carrying out research in areas of host resistance, immunomodulation, carcinogenesis, AIDS, immunotoxicology and inhalation toxicology as well as working in areas of regulatory and experimental toxicology.

University of Illinois

Department of Dairy Science and Microbiology

Urbana.
Tel: 217 333 2090

Studying microbiology of anaerobic degradation of organic matter. Isolating and documenting new species of bacteria which use volatile fatty acids and/or generate methane.

University of Illinois

Biotechnology Center

901 South Mathews St, Urbana, IL 61801.
Tel: 217 333 1695 Fax: 217 244 0466

The Industrial Affiliates Program provides formal long-term association between university and company scientists, administers research facilities and provides industry with graduate and postdoctoral job candidates. Areas of activity include anaerobic microbiology, protein engineering, plant molecular biology and transformation, computer visualization, genome mapping of bacteria and development of maps for unique plant and animal germplasm stocks.

Illinois Water Treatment Co

Life Sciences Group

4669 Shepherd Trail, Rockford, IL 61103-0560.
Tel: 815 877 3041

Telex: 257441/910 631 3438 Fax: 815 877 0172

Supplies equipment for reverse osmosis, ultrafiltration and deionized water systems.

Institute of Food Technologists

221 North La Salle Street Suite 2120, Chicago, IL 60601.

Institute of Gas Technology

3424 South State Street, Chicago, IL 60616.

Tel: 312 949 3650 Telex: 256189

Fax: 312 949 3776

Applies biotechnology research to the needs of the energy industries. Conducts laboratory research on such environmental issues as the removal of organic sulphur from coal and oil shales, degradation of heavy organic chemicals in soil and the decontamination of soil and ground water. Energy utilization research focuses on the production of chemicals and liquid fuels. Also conducts pilot-plant studies on production of gaseous fuels from biomass and wastes via anaerobic digestion and other processes. Organizes annual conferences on energy from biomass and wastes and on gas, oil and coal biotechnology.

International Bioproducts Inc

700 Bonded Parkway, Streamwood, IL 60107.

Tel: 708 213 0300

Supply food and diagnostic enzymes, test kits and semi-automated analyzers for clinical chemistry.

Iso-Data Inc

1500 Hicks Road, Rolling Meadows, IL 60008.

Tel: 312 259 8999/800 321 9632

Telex: 206689 mgdx palt Fax: 312 259 9262

Manufactures radioisotope counters and immunoassay data production software.

ISS Inc

2604 N Mattis Ave, Champaign, IL 61821.

Tel: 217 359 8681 Fax: 217 359 7879

Manufactures steady-state and time-resolved instruments for biotechnological applications, including a multifrequency phase and modulation

fluorometer, a photon counting spectrofluorometer and a near infra red oxygen sensor.

J R Snyder Inc

PO Box 3638, Champaign, IL 61826.

Tel: 217 352 9880

Biotechnology consultants offering services in assessment, management and commercialization.

John Brown

18th floor, 300 South Riverside Plaza, Chicago, IL 60606.

Tel: 312 902 1200 Telex: 254562

Fax: 312 902 99241236

International engineering and construction company serving the process industries with extensive specialist experience in food, biotechnology and pharmaceutical projects. A full range of services includes feasibility studies, process development and project execution and validation up to the turnkey level. R&D and pilot plant facilities are available for commercial development work. Corporate headquarters in Houston, TX (see individual State entries for details of other offices).

Lab-Line Instruments Inc

15th & Bloomingdale Avenues, Melrose Park, IL 60160-1491.

Tel: 708 450 2600/800 LAB LINE

Fax: 708 450 0943

Manufactures instruments and equipment for culture of tissues and cells, including biological shakers, carbon dioxide and standard incubators, environmental chambers and rooms, water baths, refrigerators/freezers and general laboratory apparatus.

Laboratory Technologies Inc

1517 S Wright Blvd, Schaumburg, IL 60193-4509.

Tel: 312 529 3112/800 542 1123

Fax: 312 529 3141

Supplies process monitoring software for acquisition and manipulation of laboratory data, equipment for EIA, standards and controls for RIA, radioactivity counters and radiation safety equipment.



Leica Inc

111 Deer Lake Rd, Deerfield, IL 60015.

Tel: 708 405 8152/800 248 0123

Fax: 708 405 0030

Supplies a wide range of microscopes and accessories including scanning electron microscopes and other research microscopes.

Liquid Carbonic

Specialty Gas Corporation

135 South LaSalle St, Chicago, IL 60603-4282.

Tel: 312 855 2500 Telex: 254165

Produce speciality gases.

Lyphomed

10401 W. Touhy Ave., Rosemont, IL 60018.

Tel: 708 390 6500 Fax: 708 390 1666

Developing therapeutics for AIDS and other diseases. Produces vitamin supplements for intravenous use, antibiotics and pentamidine, for the treatment of pneumonia. A subsidiary of Fujisawa Pharmaceutical Co. Ltd (Japan).

Part II Illinois — IL UNITED STATES OF AMERICA

Miles Inc

Diagnostics Division
195 West Birch St, Kankakee, IL 60901.
Tel: 815 937 8270/800 227 9412
Fax: 815 937 8285

Manufactures and distributes blood proteins and growth enhancement media supplements including aqueous lipoprotein cholesterol, transferrins, albumins and globulins.

Monterey Landfill Gas Corp

c/o Palmer Capital Corp, 6300 Sears Tower, Chicago, IL 60606.
Developing landfill gas extraction systems with gas used for electricity generation using internal combustion engines.

NESLAB Instruments Inc

12249 Rhea Drive, Plainfield, IL 60544.
Tel: 815 436 1151 Fax: 815 436 1195
Manufacturer of constant temperature bath/circulators, immersion coolers, personal freezers and recirculating chillers.

Northview Biosciences Inc

1880 Holste Rd, Northbrook, IL 60062.
Tel: 708 564 8181 Telex: 9103501051
Fax: 708 564 8269
Provides contract R&D support and testing in immunology, microbiology, toxicology/pharmacology, analytical chemistry and sterility assurance.

NuClin Diagnostics Inc

3322 Commercial Ave, Northbrook, IL 60062.
Tel: 312 498 5210 Telex: 297175
Fax: 312 564 1830
Supply reagents for RIA and EIA and diagnostic test kits.

Nunc Inc

2000 North Aurora Rd, Naperville, IL 60563.
Tel: 800 288 NUNC Telex: 910 240 3936
Fax: 708 416 2556
Manufacture disposable tissue culture chambers.

The Nutrasweet Co

Box 730 - 1751 Lake Cook Rd, Deerfield, IL 60015.
Tel: 312 940 9800/800 323 5321
Telex: 240330 nutra ur Fax: 312 405 7812
R&D Division, 601 E Kensington, Mt Prospect IL 60056.
Tel: 708 577 0770 Fax: 708 259 2170

Manufactures aspartame, a high intensity sweetener sold under the brand name 'NutraSweet'. A subsidiary of Monsanto, US.

Pambec Laboratories

36533 N Streamwood Drive, Gurnee, IL 60031.
Tel: 414 963 8594
Carry out custom and contract work in genetically engineered prokaryotes and eukaryotes, DNA probes, polypeptides, polynucleotides, conjugate synthesis and consulting.

Parr Instrument Co

211 53rd Street, Moline, IL 61265.
Tel: 309 762 7716/800 872 7720
Telex: 270226 Fax: 309 762 9453
Manufacture scientific laboratory equipment including bomb calorimeters, reactors, cell disintegrators, pressure vessels and accessories. Offer customized design services.

Petrogen Inc

2452 East Oakton, Arlington Heights, IL 60005.
Tel: 312 952 1309
Developing biosurfactants.

Pfanstiehl Laboratories Inc

1219 Glen Rock Avenue, PO Box 439, Waukegan, IL 60085.
Tel: 708 623 0370/800 383 0126
Telex: 253672 pfanlab Fax: 708 623 9173
Produces rare and simple sugars, polysaccharides, deoxysugars, sugar alcohols, glycosides and blocked sugars, diagnostic chemicals, pharmaceutical intermediates and research biochemicals.

Pierce Chemical Co

3747 N Meridian Rd, PO Box 117, Rockford, IL 61105.
Tel: 815 968 0747/800 8 PIERCE/800 874 3723
Telex: 910 631 3419
Fax: 815 968 7316/800 8425007

Produces a wide range of resins, buffers and standards for amino acid analysis, protein sequence analysis, peptide synthesis and chemical modification of proteins, as well as products for affinity chromatography and electrophoresis. Also supplies media, standards, derivatization reagents, accessories, glass vials and closures etc, for thin layer, high performance liquid and gas chromatography.

Plant Molecular Biology Center

Northern Illinois University, 319 Montgomery Hall, Dekalb, IL 60115.
Tel: 815 753 7841 Fax: 815 753 0461
Engaged in research in plant molecular biology. Provides research space for relevant industrial projects and collaborative ventures. Main focus is on host/parasite interactions, plant virology, transposable elements, RFLPs, plant regeneration and classical plant breeding.

Polyfoam Packers Corp

2320 Foster Ave, Wheeling, IL 60090.
Tel: 708 398 0110/800 323 7442
Fax: 708 398 0653
Manufacturer of stock insulated shipping containers and protective packaging, custom packages and temperature maintenance accessories including cryogenic blood banking equipment and transport kits.

PolyScience Corp

7800 Merrimac Ave, PO Box 48312, Niles, IL 60714.
Tel: 708 965 0611/800 229 7569
Fax: 708 965 7639
Manufacturer of a complete line of circulating baths, heating/refrigerated recirculators and liquid chillers, wide range of models is available to operate from -60 C to 200 C +/- 0.01 C; microprocessor control with temperature programming capabilities available. OEM enquiries invited.

PPG Industries

Specialty Chemicals
3938 Poret Drive, Gurnee, IL 60031.
Tel: 708 244 3410 Telex: 253310
Fax: 708 244 9633
Produces antifoams, emulsifiers and surfactants for food, pharmaceutical and cosmetic use.

Precision Scientific Inc

3737 W Cortland Street, Chicago, IL 60647.
Tel: 312 227 2660/800 621 8820
Fax: 312 227 1828
Manufacturer of constant temperature laboratory products. Has expanded its product line by purchasing Napco Scientific. The full product line consists of Napco carbon dioxide incubators, vacuum ovens and autoclaves, as well as Precision low temperature and general purpose incubators, water baths, ovens and vacuum pumps.

Prochrom Inc

5622 West 73rd St, Indianapolis, IL 46278.
Tel: 317 297 1667 Fax: 317 297 5564
Supplies lab and production preparative systems for liquid and gas chromatography and HPLC. Offers services in development, design and start up.

Regis Technologies Inc

8210 N Austin Ave, Morton Grove, IL 60053.
Tel: 708 967 6000/800 323 8144
Fax: 708 967 5876
Manufacture chromatography columns, packing material and reagents for HPLC. Offer custom synthesis (GMP) services in a FDA registered facility. Specialize in 1g to 100 Kg quantities.

Research Products International Corp

410 N Business Center Drive, Mount Prospect, IL 60056.
Tel: 312 635 7330 Telex: 282595
Supplies chemicals and vials for liquid scintillation counting as well as acrylic syringe shields for use with beta-emitting solutions.

RITA Corp

PO Box 556, Crystal Lake, IL 60014.
Tel: 815 455 0530
Offers custom synthesis of rare chemicals.

Safety Diagnostics Inc

Northwestern University, Evanston Research Park, 1890 Maple Ave, Evanston, IL 60201.
Tel: 312 475 6600 Fax: 312 475 8582
Develop products for medical diagnostic testing. Products include a non-invasive blood sampler and testing system.

Scientific Device Laboratory Inc

PO Box 88, 508 Zenith Drive, Glenview, IL 60025.
Tel: 708 998 6860 Fax: 708 803 8251
Supplies formalin- and xylene-free reagents, safety items, diagnostics, reagents, standards and controls, and custom printed slides as well as some computer software for labelling slides.

Scientific Products Inc

1430 Waukegan Rd, McGaw Park, IL 60085.
Tel: 312 689 8410
Developing monoclonal antibodies, DNA probes and cell culture products.

SciTech International Inc

Bailiwick Court Building, 2231 N Clybourn Ave, Chicago, IL 60614-3011.
Tel: 312 472 0444 Fax: 312 472 0472
Development: 312 472 0485 Catalog: 800 622 3345
Established in 1992 to market, distribute and publish scientific and technical software worldwide. Supplies over 1000 products for DOS, Mac, Windows and UNIX (see catalog number above).

SLM-AMINCO Instruments Inc

810 W Antony Drive, Urbana, IL 61801.
Tel: 217 384 7730/800 637 7689
Fax: 217 384 7744

Manufactures cell disintegrators, fluorometers and UV/visible spectrophotometers. Division of American Instrument Co, US.

Standard Oil Co of Indiana

200 East Randolph Street, Chicago, IL 60601.
Tel: 312 856 6111

Amoco Research Centre: PO Box 400, Naperville, IL 60566.
Tel: 312 420 5111

At Amoco Research Centre undertaking studies on a wide range of biological subjects, including microbiology, enzymology, fermentation, immunochemistry, photosynthesis and genetic engineering. Has significant investment in Cetus Corp, US.

Stoelting Co

620 Wheat Lane, Wood Dale, IL 60191.
Tel: 708 860 9700 Fax: 708 860 9775

Supply automated cell transfer systems.

Strategic Technologies International Inc

1590 S Milwaukee Ave, Libertyville, IL 60048.
Tel: 708 816 6112 Fax: 708 680 7917

Management consulting firm providing professional services in market research and planning, strategic planning, technology and business opportunity assessments, product and process licensing, acquisition evaluations and liaison services to biotechnology companies worldwide in the following industries: pharmaceuticals, chemicals, petrochemicals and polymers, speciality chemicals, pesticides, veterinary products, enzymes, laboratory and medical instruments, clinical diagnostics and food additives.

Technology Marketing Group

950 Lee Street, Des Plaines, IL 60016.
Tel: 708 297 1404 Fax: 708 297 1407

Consultants in areas of marketing research and development. Has carried out studies on interferon, recombinant DNA technology and biotechnology, using phone survey, mail survey and focus group techniques. Have also evaluated biotechnology products for use in diagnostic radiology.

Unimetrics Corp

501 Earl Rd, Shorewood, IL 60436.
Tel: 800 854 6931 Telex: 206775
Fax: 815 741 8418

Supply laboratory syringes and tubing flangers, and speciality OEM syringes and needles.

United Agriseeds Inc

PO Box 4011, Champaign, IL 618240.
Tel: 217 373 5300 Fax: 217 356 5300

Keltgen Seed Co., PO Box 143 Olivia, MN 56277.
Tel: 612 523 1331

Producing seedcorn, soy-beans and wheat using cell and tissue culture to develop new strains. Subsidiary of Dow Chemical, US.

United Dairy Industry Association

Dairy Center 6300 N River Rd, Rosemont, IL 60018.
Tel: 312 696 1860

Developing milk based carbonated beverages.

**United States Department of Agriculture
National Center for Agricultural
Utilization Research**

NRRL/ARS Culture Collection

1815 North University Street, Peoria, IL 61604.
Tel: 309 685 4011 Fax: 309 671 7814

Culture collection and patent depository for strains of agriculturally and industrially important bacteria, yeasts, moulds and actinomycetes (except for certain pathogens and moulds which cannot be preserved by lyophilisation).

UOP Inc

10 UOP Plaza, Des Plaines, IL 60016.
Tel: 312 391 2000

Develops and licenses processes related to petroleum refinery including fermentation and enzyme applications. Has a research programme in recombinant DNA technology related to production of food and chemical products.

UTI Tect Inc

2233-F Northwestern Ave, Waukegan, IL 60087.
Tel: 708 249 1212 Fax: 708 249 1448

Manufacturer of microbiological products.

Vitamins Inc

200 East Randolph Drive, Chicago, IL 60601.
Tel: 312 861 0700 Telex: 254717

Manufactures vitamins and protein concentrates for pharmaceutical, food and animal feed applications. Operates solvent and supercritical fluid extraction facilities.

Wright Chemical Corp

4328 N United Parkway, Schiller Park, IL 60176.
Tel: 312 678 4806 Telex: 206682

Supply reverse osmosis and ultrafiltration equipment for downstream processing of fermentation liquors by membranes. Products range from laboratory units to industrial plants.

Indiana — IN

Agdia Inc

30380 County Road 6, Elkhart, IN 46514.
Tel: 219 264 2014
Telex: 910 2502141 agdia mnuq
Fax: 219 264 2153

Produce diagnostic kits for detection of pathogens in agricultural and ornamental plants.

American Biogenetic Sciences Inc

PO Box 1001, Notre Dame, IN 46556.
Tel: 219 239 7755

Development stage biotechnology company in a joint venture with the University of Notre Dame to develop a diagnostic kit to detect blood clots and a method to dissolve blood clots utilizing monoclonal antibody technology. Also working on developing a recombinant vaccine against Hepatitis A.

American Maize Products Co

1100 Indianapolis Blvd, Hammond, IN 46320.
Tel: 800 348 9896

Carrying out enzyme and microbial research in relation to maize and maize products including high fructose corn syrup.

American Monitor Corp

AM Diagnostics
5425 W 84th St, PO Box 68505, Indianapolis, IN 46268.
Tel: 317 872 0300/800 428 1437
Fax: 317 875 6387

Supplies instruments and reagents for diagnostic laboratories including analyzers and enzyme/substrate reagents and standards for RIA and EIA as well as test kits.

Bangs Laboratories Inc

979 Keystone Way, Carmel, IN 46032.
Tel: 317 844 7176 Fax: 317 575 8801

Introducing silica particles that adsorb DNA, with a range of different surface chemistries permitting a variety of chemical coupling reactions. Offer worldwide free technical service and consulting in particle and surface chemistry especially for microspheres for immunodiagnosics including ideas for formatting tests and assays, particle selection and handling, ligand coating and final formulation. Pioneered production and application of uniform latex particles in medical diagnostics and biotechnology. Supply magnetic microspheres as supports for immunoassays and for cell tagging and removal, and a range of magnetic particles with high specific surface areas with 12-60% magnetite for fast solid/liquid separations; uniform polymer (latex) particles, around 18nm to 20 micro m, including polystyrene, polymethylmethacrylate and surface-modified with active groups like carboxylic acid, primary amine and hydroxyl, in a range of colours including fluorescent. Densities range from 1.03-1.5g/ml. Surface activator carboxylate and amide coating materials available for surface binding in solid phase immunoassays and DNA probes.

Bioanalytical Systems Inc

2701 Kent Ave, Purdue Industrial Research Park, West Lafayette, IN 47906.
Tel: 317 463 4527 Telex: 276141
Fax: 317 497 1102

Supply HPLC and accessories for analytical chromatography including a system for detection of trace metabolites, peptides and amino acids at or below picomole concentration levels. Researching assay systems based on mammalian cell culture products.

Bioproducts for Science Inc

PO Box 29176, Indianapolis, IN 46229.
Tel: 317 894 7536 Telex: 6713997
Fax: 317 894 4473

Produce growth factors for use in cell culture as well as monoclonal and polyclonal antibodies, including those reactive against cell surface markers and receptors, complement components, cytoskeletal proteins, enzymes, human blood group antigens, immunoglobulins, infectious agents, histocompatibility complex antigens, muscle proteins, serum proteins, steroids, tumour antigens etc. Distribute products of Serotec Ltd, UK.

Boehringer Mannheim Biochemicals Inc

9115 Hague Rd, PO Box 50414, Indianapolis, IN 46250-0414.
Tel: 317 576 7426/800 428 5433
Fax: 317 576 2754

Supplies a complete line of biochemical reagents for use in a variety of research applications. Over 2700 products for molecular biology, biochemistry, immunology and cell biology research including: restriction enzymes, RNA/DNA modifying enzymes, DNA labelling kits, nucleotides and other associated products such as DNAs, vectors and molecular weight markers for molecular biology;

Part II Iowa — IA UNITED STATES OF AMERICA

various laboratory reagents as well as products for protein and glycoprotein research, enzymatic analysis and DNA/protein purification for biochemistry; monoclonal antibodies, secondary antibodies and many other associated products for immunology; aerosol delivery systems; a complete line of factors and cytokines, harvesting and dissociating enzymes, speciality media supplements and other associated products for cell biology.

Bristol-Myers Co

US Pharmaceutical and Nutritional Group (USPNG)
2400 Pennsylvania Street, Evansville, IN 47721.
Tel: 812 429 5000

Manufacturer of pharmaceutical and nutritional products.

Chematics Inc

PO Box 293, N Webster, IN 46555.
Tel: 219 834 2406 Fax: 219 834 7427

Produce test kits for cholesterol, alcohol and glucose.

Consolidated Biotechnology Inc

1413 W Indiana Ave, PO Box 2086, Elkhart, IN 46515.
Tel: 219 295 6767 Fax: 219 295 1361

Research and development company with interests in the utilisation of biomass and starch for food products and ascorbic acid production.

Eli Lilly & Co

307 East McCarty Street, Indianapolis, IN 46285.
Tel: 317 261 2000/800 227 7853

Major pharmaceutical company producing cephalosporins, hygromycin, penicillins and tetracyclines, as well as plant growth substances (gibberellins) by fermentation using strains improved by mutation and selection. Interested in further improvements involving recombinant DNA technology as well as in production of human insulin in conjunction with Genentech Inc, US and its subsidiary Dista Products Ltd. Also has long term agreement with the International Plant Research Institute, US. Products under development include human growth factor, pro-insulin, vaccines, diagnostics and antibiotics. Have joint venture agreements with Genentech, Collagen Corp, California Biotechnology, Bio-Response, Damon Biotech, Hybritech and Synergen, all US.

Eli Lilly & Co

Elanco Division

Lilly Corporate Center, Indianapolis, IN 46285.
Tel: 800 227 7853 Telex: 276051
Fax: 317 276 6876

Manufacture insulin products.

Endress & Hauser Inc

2350 Endress Place, Greenwood, IN 46143.
Tel: 317 535 7138/800 428 4344
Telex: 272195 Fax: 317 535 7223

Fax: 317 535 8498 (Sales).

Supply moisture analyzers, flow meters and level and pressure controllers.

Glas-Col Apparatus Co

711 Hulman St, PO Box 2128, Terre Haute, IN 47802-2128.
Tel: 812 235 6167 Fax: 812 234 6975

Manufactures laboratory heating mantles, temperature controllers, shakers, stirrers, mixers and cell disruptors.

Harlan Bioproducts for Science Inc

PO Box 29176, Indianapolis, IN 46229.
Tel: 317 894 7536 Fax: 317 894 1840

Produces monoclonal and polyclonal antibodies, animal serum and plasma, including fetal bovine serum, growth factors, dynabeads for cell separation, a mouse embryo cyropreservation kit and chromogens. Also offers monoclonal antibody production services and develops hybridomas.

IMCERA Bioproducts Inc

PO Box 207, Terre Haute, IN 47808.
Tel: 812 232 0121/800 345 3843
Telex: 810 356 2125

1810 Frontage Rd, Northbrook, IL 60062.
Tel: 800 345 3843

Produce and market recombinant serum growth factors and related products for the animal and human health pharmaceutical industries. Market IGF-I (somatomedin-C) for use in cell culture as a means of reducing or eliminating serum requirements, manufactured using a genetically engineered E coli K-12. Developing adhesion peptides. A wholly owned subsidiary of International Minerals and Chemical Corporation, US previously known as the Imcell Products Division of IMC.

Indiana Biolab

RR 2 Box 407, Palmyra, IN 47164-9427.
Tel: 812 364 6739

Produces virus-free plants for agriculture using tissue culture techniques and microbial cultures for reference and research.

Indiana State University

Interdisciplinary Center for Cell Products and Technology

Science Building, Room 201B, Terre Haute, IN 47809.
Tel: 812 237 7660/3245

Promote interdisciplinary research among university and industrial scientists, focused on hybridoma and rDNA technologies, product development, market assessment, social impacts and ethical concerns.

Indiana University

Institute for Molecular and Cellular Biology

Jordan Hall 322A, Bloomington, IN 47405.
Tel: 812 335 4183

Promote and provide resources for research and research training in all aspects of basic science relevant to biotechnology.

Jordan Scientific Co

4315 S State Rd 446, Bloomington, IN 47401.
Tel: 812 334 1509/800 222 2092

Supplier of laboratory equipment and materials. Products include gel electrophoresis systems.

Miles Laboratories Inc

PO Box 70, 1127 Myrtle Street, Elkhart, IN 46515-0070.
Tel: 219 264 8111/800 248 2637
Telex: 258465 Fax: 219 255 3067

Manufactures and distributes biochemicals for research, clinical and industrial use. Products include enzymes for immunoassays, peroxidase, alkaline phosphatase and conjugates with a variety of antigens from human and other animal sources, industrial enzymes (amylases, pectinases, proteases, glucose isomerase, glucose oxidase), research and analytical enzymes, starter cultures for the dairy industry, coagulants, organic acids prepared by fermentation (citric acid and sodium citrate) and

monoclonal antibodies. Has extensive research programme in fermentation rDNA technology and other molecular biology techniques. Division of Bayer, US.

Phyto Dynamics Inc

624 South 775 East, PO Box 5418, Lafayette, IN 47905.

Tel: 317 296 3497 Telex: 298526
Fax: 317 296 3498

Supplies unique field crop inbreds and hybrids to the seed industry. Does contract research with all types of corn as well as with other plant species.

Pitman-Moore Inc

Research & Development

1331 South First St, Terre Haute, IN 47802.
Tel: 812 232 0121 Fax: 812 238 1077

Corporate Headquarters: One Conway Park, 100 N Field Drive, Lake Forest, IL 60045.
Tel: 708 615 3700

Manufactures fermentation products, fertilizers, animal feed ingredients, additives including bacitracin, supplements and antibiotics as well as veterinary products based on genetic engineering, and other related research techniques, for all aspects of reduction of subclinical infections and promotion of growth in food-producing animals including biopolymers, growth hormones, non-hormonal steroidal anabolic compounds and controlled release implant carriers.

Purdue University

Laboratory of Renewable Resources Engineering

West Lafayette.

Tel: 317 749 2591

Studying production of ethanol 1,2,3-butanediol and other chemicals by fermentation of chemical and enzyme hydrolysis of cellulose and woody materials. Also carrying out investigations on methods of downstream processing including separation of alcohols using absorbents.

SynChrom Inc

PO Box 5868, Lafayette, IN 47903-5868.
Tel: 317 447 6178/800 283 HPLC/800 284 5868
Fax: 317 447 5703

Manufactures chromatography column packings and columns for analytical, preparative and microbore HPLC.

US Development Corp

One Airport Road, West Lafayette, IN 47906.
Tel: 317 494 6456 Fax: 317 494 7953

Commercializing technology, developed in the Department of Food Science at Purdue University, using heat and sonic waves to produce low temperature dried natural product powders including fruit juices, tomato, milk, sauces and flavours as well as high fructose corn syrup and pharmaceuticals.

Iowa — IA

Acres Custom Research

PO Box 249, Cedar Falls, IA 50613.
Tel: 319 277 6661

Offer custom services in recombinant techniques in the development of products for crop protection and enhancement of plant crop yields.

Agrion Corp

PO Box 328, Des Moines, IA 50302.
Tel: 515 262 9341

Developing veterinary therapeutics and vaccines by fermentation, rDNA and cell and tissue culture.

Ambico Inc

PO Box 522, 902 Sugar Grove Ave, Dallas Center, IA 50063.
Tel: 515 992 3842 Telex: 3791826
Fax: 515 992 3831

Produces a range of vaccines, some of them unique, for the control of transmissible diseases of pigs in particular. Conducts contract research in the development of methods of biological control of disease in animals for pharmaceutical companies. Areas of research include virology, tissue culture, bacteriology, immunology, parasitology and haematology. Carries out preclinical and clinical evaluation of pharmaceuticals and vaccines on animals.

American Protein Corp

2325 North Loop Drive, Ames, IA 50010.
Tel: 515 296 7100 Fax: 515 296 7110

Manufacturer of spray dried animal proteins and peptones for use in reagent, fermentation and tissue culture applications.

Arko Laboratories Ltd

Hwy 69 North, Jewell, IA 50130.
Tel: 515 827 5648

Produce vaccines for turkeys.

Barnstead/Thermolyne Corp

Sybron Corp

PO Box 797, 2555 Kerper Blvd, Dubuque, IA 52004-0797.
Tel: 319 589 0538/800 553 0039
Fax: 319 589 0530

Supplies equipment for purification of water by distillation, reverse osmosis, ultra-violet irradiation and filtration for both industrial and laboratory applications as well as a range of general laboratory equipment. Division of Sybron Corp, US.

Diamond Scientific

2538 Southeast 43rd Street, Des Moines, IA 50303.
Tel: 515 262 9341 Fax: 515 262 9341

Produces immunobiologicals and pharmaceuticals for veterinary use. Involved in research and development for both human and animal health. Primary involvement in immunomodulating adjuvants and advanced virus inactivation technology. Subsidiary of Agrion Corp, US.

Diamond V

436 G Ave NW, PO Box 74570, Cedar Rapids, IA 52407.
Tel: 319 366 0745/800 373 7234
Fax: 319 366 6333

Leading supplier of yeast cultures including probiotics with digestive stimulatory properties to improve feed conversion and animal performance.

Fermented Products

PO Box 1483, Mason City, IA 50401.
Tel: 515 423 1460 Fax: 515 423 0832

Manufacture lactic fermentation products. Division of International Whey Technics Ltd.

Grand Laboratories Inc

R.R. 1, Box 193, Larchwood, IA 51241.
Tel: 712 477 2811 Fax: 712 477 2824

Develops veterinary vaccines.

Integrated DNA Technologies Inc

1710 Commercial Park, Coralville, IA 52241.
Tel: 319 645 2746/800 328 2661
Fax: 319 645 2921

Developing a new class of modified antisense reagents, antisense oligonucleotides.

Iowa State University

Agricultural Biotechnology Program

Office of Biotechnology, 1010 Agronomy Building, Ames, IA 50011.
Tel: 515 294 9818 Fax: 515 294 0907

Promote agricultural biotechnology in Iowa with the main focus on agricultural product development and manufacturing, development of techniques for bioprocessing agricultural raw materials, improved animal and plant production, genetic modification of animals, plants and microbes to produce novel products.

University of Iowa

Center for Biocatalysis and Bioprocessing

318 Pharmacy Building, Iowa City, IA 52242.
Tel: 319 335 8764 Fax: 319 335 8766

The Biocatalysis Research Group includes 38 faculty scientists from six departments within four colleges on the university campus from Departments of Biochemistry and Microbiology (College of Medicine), Chemistry (Liberal Arts), Chemical and Biochemical Engineering and Civil and Environmental Engineering (College of Engineering) and Medicinal and Natural Products Chemistry (College of Pharmacy). There are numerous funded projects in the following research areas: fundamental properties of biocatalysts; bioprocessing technology to isolate and purify materials prepared by biocatalysis; discovery of new biocatalysts; applications of biocatalysts including synthesis of chemicals, biosensing technology and development of bioactive agents; and bioremediation. The Center is seeking corporate members for an industrial affiliates programme.

Midland Bioproducts Corp

800 S Nedden Drive, PO Box 309, Boone, IA 50036.
Tel: 515 432 5516 Fax: 515 432 5462

Produce antisera to human serum proteins. Undertake contract antiserum production. Developing monoclonal antibody production and purification techniques. Subsidiary of Nitto Boseki, Japan.

Pioneer Hi-Bred International Inc

400 Locust St, Suite 700, Des Moines, IA 50309.
Tel: 515 245 3500

Microbial Genetics Division: 6800 Pioneer Parkway, PO Box 258, Johnston, IA 50131.
Tel: 515 270 3692 Fax: 515 270 3156

Major producer and marketer of hybrid corn. Developing corn with herbicide resistance as well as improved seed including corn and sunflower. Also has microbial genetics division which produces microbial cultures with agricultural applications including silage, Rhizobium and ruminant inoculants.

Retrogen Medical Inc

203 W Montgomery St, Iowa Biotech Center, Creston, IA 50801.
Tel: 515 782 3315

Produces therapeutics for the treatment of AIDS, hepatitis and cancer.

The Salzman Corporation

308 East River Drive, Davenport, IA 52801.
Tel: 319 324 1028 Telex: 6711608 salz uw
Fax: 319 324 6221/800 5538903

Supplies highly purified blood serums for use in cell culture, growth media and diagnostic assays, including foetal bovine serum, for pharmaceutical, vaccine and research use. Also supplies high yielding animal byproducts such as pancreas, pituitary and thyroid glands for pharmaceutical use collected from USDA inspected abattoirs and marketed throughout the world.

Soil Technologies Corp

PO Box 1415, Fairfield, IA 52556.
Tel: 515 472 3963 Fax: 515 472 6189

Produce a microalgae-based soil conditioner and bio-fertilizer using cyanobacteria (blue-green algae). Developing microalgal cultures for land reclamation (high pH and saline conditions).

Spectrochrom Ltd

2501 Loop Drive, Room 612, Ames, IA 50010.
Tel: 515 296 9913 Fax: 515 296 9910

Develops immunoassays, including diagnostics kits for pesticides.

Thermolyne Corp

2555 Kerper Blvd, PO Box 797, Dubuque, IA 52001.
Tel: 319 556 2241 Telex: 468545

Manufactures incubators, hot plates, water baths and other temperature regulation equipment. Subsidiary of Sybron Corp, US.

Washington Medical Inc

203 W Montgomery St, Creston, IA 50010.
Tel: 515 782 3315

Developing anti-cancer and anti-viral pharmaceuticals, AIDS therapeutics, gonadotropins and erythropoietin. Market gonadotropins.

Kansas — KS

Agripro Biosciences Inc

PO Box 2955, 6700 Antioch, Shawnee Mission, KS 66201-1355.

Tel: 913 384 4940 Fax: 913 384 0208

Produce hybrid wheat and other seeds of agricultural importance by recombinant DNA technology and cell and tissue culture.

Grinsted Products Inc

PO Box 26, Industrial Airport, KS 66031.
Tel: 913 764 8100 Fax: 913 764 5407

Supplies food additives and industrial enzymes (see Grinsted Products AS, Denmark).

HRA Inc

4510 W 89th, Prairie Village, KS 66207.
Tel: 913 341 1155 Telex: 42335 hesintl
Fax: 913 341 3625

Biotechnology consultants offering market research and analysis.

Part II Kentucky — KY UNITED STATES OF AMERICA

Immucomp Inc

11850 W 85th St, Lenexa, KS 66214.
Tel: 913 492 3652 Fax: 913 492 8880

Offers services in development and production of diagnostic and other in vitro assays based on EIA. Products developed include clinical assays for food allergies. Carrying out applied, basic and clinical research on immunomodulators, interleukins and lymphokines.

JRH Biosciences

13804 W 107th ST, PO Box 14848, Lenexa, KS 66215.
Tel: 913 469 5580/800 255 6032
Fax: 913 469 5584

Supply a complete product line of sera, media and reagents for cell culture in research, scale-up and production of vaccines and biotherapeutics.

Kansas State University

Department of Chemical Engineering

Manhattan.

Tel: 912 532 5584 Fax: 913 532 7810

Developing methods for extraction of ethanol from fermentation beers using liquid/liquid extraction with petroleum (gasoline) in a countercurrent system.

Monoclonal Production International

Twentieth and Sydney Streets, Fort Scott, KS 66701.
Tel: 316 223 4230

Produce monoclonal antibodies formed in the uterus of sheep or cows.

Oread Laboratories

1501 Wakarusa Dr, Lawrence, KS 66047.
Tel: 913 749 0034 Fax: 913 841 1991

Offers contract laboratory and preclinical study services to the biopharmaceutical industries. Also produces reagents and capillary electrophoresis columns.

Remel

12076 Santa Fe Drive, Lenexa, KS 66215.
Tel: 913 888 0939/800 255 6730

Manufactures prepared media for bacteriological cultures and animal blood products etc, as well as microbiological stains and reagents. Supplies a wide range of clinical microbiological test kits.

Syntro Corp

9669 Lackman Rd, Lenexa, KS 66219.
Tel: 913 888 8876 Fax: 913 894 9373

Developing vaccines containing genetically modified viruses which are marketed through its subsidiary Syntro-Vet. Have special expertise with pox and herpes virus vectors and gene deleted vaccines.

TechAmerica Group Inc

PO Box 338, Elwood, KS 66024.
Tel: 913 365 9071

Supply veterinary diagnostics.

Kentucky — KY

Advanced ChemTech Inc

5609 Fern Valley Rd, Louisville, KY 40228.
Tel: 502 969 0000/800 456 1403
Fax: 502 968 1000

Supplies a wide range of laboratory equipment and reagents including automated pipeters, liquid dispensers, radioactivity counters, scanners for ELISA and EIA assays, colony counters, homogenizers, roller apparatus, systems for cell culture, peptide synthesizers, etc.

Alltech Inc

Biotechnology Center

3031 Catnip Hill Pike, Nicholasville, KY 40356.
Tel: 606 885 9613 Telex: 218425
Fax: 606 885 6736

Specializes in supplying enzymes, fermentation equipment, plant design etc, for the production of alcohol as fuel from corn in particular as well as silage inoculants, cultured yeast, mould depressant and probiotics. Organizes seminars on power alcohol and related technology. Carrying out research on animal feeds, flavours and enzymes.

Aquionics Inc

Kenton Lands Rd, Box 18395, Erlanger, KY 41018.
Tel: 606 341 0710 Fax: 606 341 2302

Manufactures advanced ultraviolet systems for disinfection, TOC reduction, and ozone destruction. Incorporates the highest UV energy lamps available on the market with automation, validation monitoring, and progressive engineering for a wide variety of flows and applications.

ELISA Technologies

628 East 3rd Street, Lexington, KY 40505.
Tel: 606 254 1221 Fax: 606 255 5532

Supply immunoassay products including ELISAs, plate readers and reagents, microplate washers, prostaglandins, standards and controls as well as test kits for drug detection, environmental, immunological, research and veterinary applications.

University of Kentucky

Department of Biochemistry

Medical Center, Lexington, KY 40506.

Studying structural analysis of the arginine gene and its regulation using wild-type and synthetically altered cells. Investigating DNA transcription and provirus in mouse leukaemia and restriction analysis of cRNA tumour virions. Also studying sites of nucleotide metabolism, drug-DNA interactions and DNA turnover.

Peptides International Inc

10101 Linn Station Road, Suite 445, Louisville, KY 40223.
Tel: 502 425 8765/800 777 4779
Fax: 502 425 8771

PO Box 24658, Louisville, KY 40224

Supplies a full line of peptide related products such as amino acids, enzyme inhibitors and substrates, biologically active peptides and peptide synthesis accessories as well as custom synthesis.

Louisiana — LA

Clyde Engineering Service

PO Box 740644, New Orleans, LA 70174.
Tel: 504 362 7929

Supply cells on rotating fibres for wastewater cleanup and ethanol production. Uses include rapid metal removal, decolorization of pulp mill effluent by white rot fungus and growth of plant and mammalian cells. Also supply calcium magnesium acetate which is a non-corrosive deicer and can remove sulphur from coal smoke.

Ethyl Corp

421 Florida St, Baton Rouge, LA 70801.
Tel: 504 388 7040

Produces fatty alcohols and related organic chemicals.

Gelco Diagnostics Inc

220 Carroll St, Suite C, Shreveport, LA 71105.
Tel: 318 861 1416 Fax: 318 865 7224

Supply diagnostic polyclonal and monoclonal antisera, human control sera and standards for in vitro diagnostics and research including products for IEP, immunofixation and EIA.

Imreg Inc

144 Elk Place, Suite 1400, New Orleans, LA 70112.
Tel: 504 523 2875 Fax: 504 523 6201

Research and development company working on immunological products including immunoregulators with clinical applications in cancer, AIDS and arthritis treatments.

InterBio Inc

10201 Mayfair Drive, Baton Rouge, LA 70809.
Tel: 504 293 2033 Fax: 504 292 6665

Offer bioremediation services in toxic waste processing.

Louisiana Biologicals Inc

PO Box 1417, Opelousas, LA 70570.
Tel: 318 948 3044

Manufactures human blood plasma products.

Louisiana State University

Department of Microbiology

Baton Rouge.
Tel: 504 388 2211

Studying methods of immobilization of yeast cells using agar beads for alcohol production in a plug-flow reactor.

Louisiana State University

Department of Chemical Engineering

Baton Rouge.
Tel: 504 388 1426

Investigating production of biologically active plant secondary metabolites from large scale root culture as well as control of complex fermentations by cell affinity chromatography.

Microbe Masters

11814 Coursey Blvd, Suite 285, Baton Rouge, LA 70816.
Tel: 504 665 1903

Developing industrial wastewater treatment using stress acclimatized bacterial products.

Tulane University

Department of Microbiology
1430 Tulane Avenue, New Orleans, LA 70146.
Tel: 504 588 5150

General Information, Tel: 504 865 4000.

Undertaking studies on virally induced mammary tumours in mice and primates and organization of proviral DNA. Isolating DNA-binding proteins.

Maine — ME

Alerchek Inc

203 Anderson St, Portland, ME 04101.
Tel: 207 775 2574 Fax: 207 775 0594

Produce pyrogen removal products for manufacturing equipment and biological materials. Also produce diagnostic assays and carry out contract development of immunoassays and endotoxin assays as well as offering services in stable protein conjugation/labeling, canine allergy testing, protein/plastic immobilizations and endotoxin removal.

AN-TOX Inc

95 Darling Ave, S. Portland, ME 04106.
Tel: 207 772 3988

Produces immunoassays for the measurement of specific environmental hydrocarbons, pesticide assays, health products and polyclonal antibodies.

Anatek-EP

17 Bishop St, Portland, ME 04103.
Tel: 207 797 8445 Fax: 207 772 5644

Offers contract research service on protein chemistry and produces western blot strips for HIV-1 and other diseases.

Baker Co Inc

Sanford Airport, Department B, Drawer E, Sanford, ME 04073.
Tel: 207 324 8773/ 800 992 2537
Fax: 207 324 3869

Manufactures and supplies a wide range of biological safety cabinets, fume hoods and clean benches.

Binax Inc

95 Darling Ave, South Portland, ME 04106.
Tel: 207 772 3988/800 323 3199
Fax: 207 761 2074

Develops, manufactures and markets diagnostics for medical, veterinary and environmental use. Undertakes contract R&D and OEM services.

Blode

2 Oakwood Road, Cape Elizabeth, ME 04107.
Tel: 207 767 5602

Produce biosensors, including nucleic acid probe microsensors and MAB-guided acoustic wave sensors.

BIODESIGN International

RR2, PO Box 1048, Kennebunkport, ME 04092.
Tel: 207 967 4173 Fax: 207 967 4014

Develop immunological reagents including antisera. Products include over 3500 antigens, monoclonal and polyclonal antibodies.

Delta Biochem

Kidder Point Rd, PO Box 414, Searsport, ME 04974.
Tel: 207 548 2525

Produce chemicals, including ammonium sulphate, for culture media and isolation media of biological materials.

FMC Corp

BioProducts Division

191 Thomaston St, Rockland, ME 04841.
Tel: 207 594 3453/800 341 1574
Fax: 207 594 3491

Biosupport Materials Unit, 20 Chapin Rd., P.O. Box 2022, Pine Brook, NJ 07058.
Tel: 201 808 1224 Fax: 201 808 1242

Supplies products for molecular separations including agarose, precast agarose mini-gels, gel support films and DNA purification systems. Biosupport Materials Unit manufactures ion exchange and affinity nonbeaded cartridges for rapid purification of proteins and antibodies.

IDEXX Laboratories Inc

formerly Agritech Systems Inc

One IDEXX Drive, Westbrook, ME 04092.
Tel: 207 856 0300 Fax: 207 856 0346

Developing immunoassays and veterinary diagnostic tests for monitoring and detecting disease in animals and for the detection of contaminants in animal feed and foods.

ImmuCell Corp

56 Evergreen Drive, Portland, ME 04103.
Tel: 207 878 2770 Fax: 207 878 2117

Pioneer the use of low cost passive antibodies derived from cow's milk to prevent and/or treat human infectious diseases.

Immunosystems Inc

4 Washington Ave., Scarborough, ME.
Tel: 207 883 9900 Fax: 207 883 8088

Produces immunoassays for environmental contaminants, including pesticides, in food, water and soil.

Immunotech Inc

160 B Larrabee Rd, Westbrook, ME 04092.
Tel: 207 854 0426/800 458 5060
Fax: 207 854 0116

Supplies anti-human monoclonal antibodies against leukocyte surface markers, cell adhesion molecules, platelets, T-cell receptors, cytokine and cytokine receptors, cell cycle antigens, cell biology and immunoglobulins; radioimmunoassay and enzyme immunoassay kits for quantification of histamine and cytokines.

Maine Biotechnology Service

383 Presumpscot Street, Portland, ME 04103.
Tel: 800 925 9476 Fax: 207 773 1163

Supply an MAb isotyping kit and related products. Offer custom monoclonal antibody services including hybridoma development, ascites production, in vitro production, antibody characterization, subcloning and storage, fragmentation, conjugation and antigen conjugation.

Ventrex Laboratories Inc

217 Read Street, PO Box 9731, Portland, ME 04104-5031.
Tel: 207 773 7231/800 341 0463
Telex: 710 221 6452 Fax: 207 775 4734

Markets biologicals, diagnostics, clinical tests and pharmaceuticals, as well as equipment including bioreactors for the culture of cells. Other products include immunoregulatory compounds for research use, allergy diagnostics, serum-free media and gelatin microcarriers.

ViroStat Inc

PO Box 8522, Portland, ME 04104.
Tel: 207 883 1491 Fax: 207 883 1482

Supply serums, reagents, stains, standards and controls for microbiology, virology and immunology as well as viral and clinical diagnostic test kits.

Woods End Research Laboratories Inc

RD 2, Box 1850 Old Rome Rd, Mt Vernon, ME 04352.
Tel: 207 293 2457 Fax: 207 293 2488

Offers services in environmental biodegradation. Developing diagnostic kits for the biotransformation of solid wastes.

Maryland — MD

Acumedia Manufacturers Inc

3651 Clipper Mill Road, Baltimore, MD 21211.
Tel: 301 467 3200 Fax: 301 366 8563

Supplies dry products for cell culture and diagnostics including peptones and other materials for bacterial culture media as well as anaerobic culture systems and antibiotic sensitivity test systems.

Advanced Biosciences Laboratories

5516 Nicholson Lane, Kensington, MD 20895.
Tel: 301 881 5600

Offer contract research support, specializing in molecular biology and recombinant DNA technology. Member of the Organon Teknika group of companies.

Advanced Biotechnologies Inc

9108 Guilford Rd, Columbia, MD 21046.
Tel: 301 470 3220/800 426 0764
Fax: 301 497 9773

Produces: purified viruses, viral proteins, monoclonal antibodies, viral and cellular DNA controls, selected cell components purified for research purposes, in particular AIDS-related research; mass cell culture (BSL-3 laboratory facilities); virus and human retrovirus research reagents. Complete molecular biology services include: plasmid DNA purification, insert isolation, transformation, labelling and sequencing. Products for cell, tissue and bacteriological culture include: media, human and animal sera, buffered and balanced salt solutions, growth and attachment factors (human IL-2) and antibiotics/antimycotics for cell culture. Carry out contract R&D and provide other custom biological services.

Advanced Biotherapy Concepts Inc

802 Rollins Ave, Rockville, MD 20852.
Tel: 301 468 3269

Produce therapeutics for AIDS and other autoimmune diseases as well as alpha- and gamma-interferons.

Part II Maryland — MD UNITED STATES OF AMERICA

Alpha 1 Biomedicals Inc

6903 Rockledge Drive, Suite 1200, Bethesda, MD 20817.

Tel: 301 564 4400 Fax: 301 564 4424

Develop peptides and processes for treatment of immune system disorders. Products include: thymosin alpha 1 for treatment of chronic hepatitis B, chronic hepatitis C, cancer and AIDS, and for use as a vaccine adjuvant; peptide fragments of HIV p17 core proteins as vaccines and immunotherapeutics. Also carrying out research on AIDS vaccines in collaboration with Cel-Sci Corp, US (formerly Interleukin-2).

Ambience Awareness International

PO Box 4201, Frederick, MD-21705-4201.

Tel: 301 662 1023 Fax: 301 662 3764

Offers consultancy on joint ventures, technology transfer, etc between American and Japanese biotech companies.

American Association of Immunologists

428E Preston Street, Baltimore, MD 21202.

American Biotechnology Co

7658 Standish Pl, Suite 107, Rockville, MD 20855.

Tel: 301 294 9553

Develop and market medical products including growth factors and immunomodulators.

American Fluoroseal Corp

204 Stonegate Drive, Silver Spring, MD 20905.

Tel: 301 384 3343

Supply laser-welded, Teflon cell culture bags.

American HistoLabs Inc

7605-F Airpark Rd, Gaithersburg, MD 20879.

Tel: 301 330 1200 Fax: 301 330 6059

Offer contract services in histology. This includes microscopic slide production from paraffin and glycol methacrylate embedded tissues as well as cryotomy.

The American Institute of Chemists

7315 Wisconsin Avenue, Bethesda, MD 20814-3202.

Tel: 301 652 2447 Fax: 301 657 3549

American Society for Biochemistry and Molecular Biology

9650 Rockville Pike, Bethesda, MD 20814.

Tel: 301 530 7147 Fax: 301 571 1824

American Society for Cell Biology

9650 Rockville Pike, Bethesda, MD 20814.

Tel: 301 530 7153 Fax: 301 530 7139

American Type Culture Collection

ATCC

12301 Parklawn Drive, Rockville, MD 20852-1776.

Tel: 301 881 2600/ 800 638 6597

Fax: 301 816 4361

One of the most diverse culture collections in the world with over 60,000 different strains of authentic cultures of bacteria, fungi, yeasts, algae, protozoa, viruses, cell lines, plant tissues, actinomycetes, recombinant DNA materials and antiserums, with departments of bacteriology, cell culture, molecular biology, mycology, protistology and virology. Has initiated a collection of hybridoma cell lines, under contract to National Institute of Allergy and Infectious Diseases. Official depository for strains involved in patentable processes recognized by the US, European Patent Office and other countries.

AMVAX Inc

12040 Indian Creek Court, Beltsville, MD 20705.

Tel: 301 470 6100 Fax: 301 470 6198

Engaged in the research, development and production of vaccines, with an emphasis on vaccines for the prevention of pediatric infectious diseases. A subsidiary of North American Vaccine Inc.

Andrulic Research Corp

4600 East West Highway, Suite 900, Bethesda, MD 20810.

Tel: 301 657 1700 Fax: 301 657 3555

Develops therapeutics for AIDS and therapeutic macromolecule conjugates, with and without MAbs, for a wide variety of other applications.

Anmed Biosafe

7642 Standish Place, Rockville, MD 20855.

Tel: 301 762 0366 Fax: 301 762 7438

Offer contract services in cell line and monoclonal antibody product safety and evaluation testing.

Antibody Resources Inc

69E Lofstrand Lane, Rockville, MD 20850.

Tel: 301 762 0153 Fax: 301 738 6578

Provides antibody purification services and develops immunoassays.

Assay research Inc

Building 335, Paint Branch Dr., College Park, MD 20742.

Tel: 301 445 4220 Fax: 301 935 6079

Produce enzyme immunoassays for interferon-alpha, ACTH, beta-endorphin, interleukin-1 A, interleukin 2, LH and LHRH.

B/R Instrument Corp

9119 Centreville Rd, Easton, MD 21601.

Tel: 410 820 8800/800 922 9206

Telex: 3717918 Fax: 410 820 8141

Manufacture solvent recycling systems and distillation systems.

Becton Dickinson

Diagnostic Instrument Systems

383 Hillen Rd, Towson, MD 21228.

Tel: 301 337 8700/800 638 8656

Supply instrumentation and reagents for clinical assay including automated analyzers and microbiology instruments and associated computer software, prepared culture media as well as standards and reagents for EIA and RIA and clinical test kits.

Becton Dickinson & Co

Microbiology Systems Division

PO Box 243, 250 Schilling Circle, Cockeysville, MD 21030.

Tel: 410 771 0100/800 638 8663

Fax: 410 584 7121

Products include anaerobic culture equipment, bacteriological media and bacteriological detection, susceptibility and identification systems as well as antisera. Also supply rapid diagnostic test kits for syphilis, rubella, cytomegalovirus, group A strep, RSV, influenza Type A, meningitis testing, C difficile, Varicella-Zoster virus, rheumatoid factor and mononucleosis.

Bell-More Labs

4030 Gill Avenue, Hampstead, MD 21074.

Tel: 410 239 7554 Fax: 410 239 4314

Offers services in custom manufacture of pharmaceuticals particularly freeze-dried preparations.

Biocon Inc

416 Hungerford Drive, Suite 420, Rockville, MD 20850.

Tel: 301 762 3889 Fax: 301 738 6578

Research laboratory servicing the biomedical and biotechnology communities, specializing in animal related products and services. Research Services Division is equipped to provide all phases of custom antibody production, acute and subchronic toxicity studies, radioisotope studies, animal holding, animal breeding, animal diagnostics, animal colony management and contract technician services. Bioproducts Division services the needs of research facilities. Products include detergents and germicides, cageboard, and a urine absorbent and ammonia reducing polymer for animal cages.

BioConferences International Inc

4405 East West Highway, Suite 503, Bethesda, MD 20814.

Tel: 301 652 3072 Fax: 301 652 4951

Video Library: 9124 Wandering Trail Drive, Potomac, MD 20854

Supply a range of videotapes featuring FDA regulation of biologics/biotech products; biotherapies; medical and in vitro diagnostic devices CLIA requirements etc; biofoods: transgenic species; patent and technology licensing; FDA training workshops; and good clinical practice.

Biodynamics Inc

2211 Lewis Avenue, Rockville, MD 20851.

Tel: 301 801 2450 Telex: 287296 trci

Fax: 301 230 0813

Distributor for Janssen Biochimica, Belgium.

Biofluids Inc

1146 Taft Street, Rockville, MD 20850.

Tel: 301 424 4140/800 972 5200

Fax: 301 424 3619

Manufactures sterile cell and tissue culture media, buffers for cell biology and molecular cloning as well as animal sera including foetal bovine serum. Also manufacturing serum-free medium.

Biological Detection Systems

15200 Omega Dr 105, Rockville, MD 20850.

Tel: 301 990 0100 Fax: 301 990 8391

Manufacture cell sorting products.

Biological Research Faculty and Facility Inc

10075-20 Tyler Place, Jhamsville, MD 21754.

Tel: 301 831 8810 Fax: 301 831 8842

Produces MAbs against carcinogenic DNA adducts, regulatory proteins, serum-free media and cell culture products.

Biomedical Research and Development Laboratories Inc

8561 Atlas Drive, Gaithersburg, MD 20877.

Tel: 301 948 6506 Telex: 898083

Fax: 301 869 5570

Manufacture a multi-probe cell harvester for membranes, cells and tissues, a microharvester, plate washers, beta radiation shields, scintillation vials and components.

Biomedical Sciences Research Laboratories Inc

Box 179, Millersville, MD 21108.
Tel: 410 987 5616 Fax: 410 987 5616

Has developed a hybridoma-producing MAb against endogenous digoxin like factor (EDLF) which is involved in cardiovascular control. The antibody has potential diagnostic and therapeutic applications.

Bloqual Inc

11 Taft Court, Rockville, MD 20850.
Tel: 301 251 0633

Carrying out research services in immunology and transgenics.

Bioscience Contract Production Corp

9000 Virginia Manor Rd, Suite 290, Beltsville, MD 20705.
Tel: 301 210 0100 Fax: 301 210 0130

Provides a cGMP biotech facility for use by third parties on a contract or per diem basis.

Biospherics Inc

12051 Indian Creek Court, Beltsville, MD 20705.
Tel: 301 369 3900 Telex: 898072
Fax: 301 725 4908

Offers services in monitoring and toxicology testing, industrial hygiene, environmental microbiology and treatment of wastewaters using bacterial systems at pilot plant level. Licenses technology for removing phosphorus from industrial waste water. Developing Lev-O-Cal sweetener. Also coordinates clinical research and provides health information to the public.

Biotechnology Assessment Services

7413 Ottenbrook Terrace, Rockville, MD 20855.
Tel: 301 948 9412 Fax: 301 948 0401

Offer consultancy services in development of biological pharmaceuticals including interactions with the FDA and between the financial and biotechnology sectors.

Biotronex Laboratory Inc

4225 Howard Avenue, Kensington, MD 20895.
Tel: 301 564 1200

Design and manufacture electromagnetic blood flowmeters.

BioWhittaker Inc

8830 Biggs Ford Road, Walkersville, MD 21793-0127.
Tel: 301 898 7025/800 654 4452/800 638 8174
Fax: 301 845 8338

Supplies quality cell culture media, custom cell culture media, serums and reagents, serum-free media, powdered media, clinical diagnostic test kits and reagents for viral and other related diseases, cell cultures, endotoxin detection kits based on Limulus amoebocyte lysate (LAL), fluorescent immunoassays, EIA kits and molecular biology buffers and reagents, in vitro toxicity cell cultures and reagents, diagnostics, viral reagents, diagnostic kits for infections, respiratory and autoimmune diseases.

Braton Biotech Inc

1 Taft Court, Rockville, MD 20850.
Tel: 301 762 5301 Fax: 301 294 9467

Developing immunodiagnostics, hybridoma technology, growth factors, AIDS tests, veterinary tests, computer imaging systems.

British Bio-technology Inc

201 Defense Highway, Suite 260, Annapolis, MD 21401-8961.

Tel: 410 266 7909 Fax: 410 266 8032

The US subsidiary of British Bio-technology Group plc, UK, which currently has three anti-cancer drugs in development, including a Stem Cell Protector for use as an adjunct to chemotherapy, and oral and injectable matrix metalloproteinase inhibitors.

Cancer Diagnostics Inc

2101 E Jefferson St, Rockville, MD 20852.
Tel: 301 881 4080 Fax: 301 881 2065

Develop new and specific cancer markers. Manufacture a mobile phase disposable chromatography device capable of partial purification, concentration, macrofiltration, cell separation and optimization, sample transportation, field sampling etc.

Celco Inc

12321 Middlebrook Rd, Germantown, MD 20874.
Tel: 301 916 1000 Fax: 301 916 1010

Manufacture an artificial capillary cell culture system.

Cellmark Diagnostics

20271 Goldenrod Lane, Germantown, MD 20876.
Tel: 301 428 4980/800 USA LABS
Fax: 301 428 4877

Supply analytical services and products in medical, legal and forensic genetic fingerprinting. Parent company is Zeneca, UK.

Center for Advanced Research in Biotechnology

9600 Gudelsky Drive, Rockville, MD 20850.
Tel: 301 738 6272 Fax: 301 738 6255

A multidisciplinary centre for research in protein engineering, structure and function.

Corex Corp

10078 Tyler Court, Ijamsville, MD 21754.
Tel: 301 874 2622 Fax: 301 874 5756

Manufacture and market sensors, fermentation equipment, cell mass/optical density sensors, biosafety/biocontainment and process control equipment.

Ceva Laboratories Inc

PO Box 6, Berlin, MD 21811.
Tel: 301 641 2060

Market veterinary products including vaccines against common poultry diseases, antibiotics, pesticides and reproduction controls as well as feed additives.

ChemGen Corp

16016 Industrial Drive, Gaithersburg, MD 20855.
Tel: 301 330 4101 Fax: 301 948 5866

Offer research and development services in bioprocessing for the production of industrial and speciality chemicals including natural flavour chemicals, speciality enzyme products and pharmaceutical chemicals and pharmaceutical intermediates made by fermentation.

Chesapeake Biological Laboratories

6000 Metro Drive, Baltimore, MD 21215.
Tel: 410 358 9600/800 441 4245
Fax: 410 358 5935

Develop, manufacture and supply GMP sterile fill and packaging vials, syringes and droptainers. Specialize in short runs and investigational products.

Clonexpress Inc

504 E Diamond Ave, Suite G, Gaithersburg, MD 20877.

Tel: 301 869 0840

Has developed novel non-viral gene transfer techniques. Is using its proprietary technology to develop ELAN (Extended Life Almost Normal) primitive stem cell lines from cord blood and bone marrow-derived cells.

Crop Genetics International Corp

7170 Standard Drive, Hanover, MD 21076.
Tel: 410 712 7170 Telex: 380988

Fax: 410 712 0104

10150 Old Columbia Rd, Columbia, MD 21046-1704.
Tel: 410 381 3800 Fax: 410 381 3840

Has four divisions dedicated to the development and commercialization of different crop protection systems: developing and commercializing insecticidal virus products to control a range of insect pests on major crops; using recombinant DNA technology to develop plant vaccine systems in which plant seeds are inoculated with genetically engineered microorganisms to provide season-long and environmentally compatible pest control; developing proprietary bacterial agents for use in combination with reduced amounts of chemical herbicides to control a broad range of weed species; developed and now markets disease-free, high yielding sugarcane seed products. Sell disease-free sugarcane. Projects include inserting Bt in endophytes living on target plants.

Cryomedical Sciences Inc

1300 Piccard Drive, Suite 102, Rockville, MD 20850.

Tel: 301 417 7070 Fax: 301 417 7077

Manufacturer of low temperature biologicals including blood substitutes and equipment for medical use.

Custom Laboratories

930 West Baltimore St, Baltimore, MD 21223.
Tel: 301 539 8855 Fax: 301 539 8868

Manufacture glucose tolerance test solutions.

Department of Health and Human Services

National Institutes of Health

9000 Rockville Pike, Bethesda, MD 20205.

The following National Institutes are located at Rockville Pike: National Cancer Institute, National Eye Institute, National Heart Lung and Blood Institute, Allergy and Infectious Diseases, Arthritis, Metabolism and Digestive Diseases, Child Health and Human Safety, General Medical Sciences, Neurological Communicative Disease and Stroke and Division of Research Resources.

Design Engineering & Manufacturing Co Inc

4906 46th Ave, Hyattsville, MD 20781.
Tel: 301 277 7676

Manufacture custom research equipment.

Diagnon Corp

9600 Medical Center Drive, Rockville, MD 20850.
Tel: 301 251 2801 Fax: 301 251 1260

Life sciences contractor, primarily for the NIH. Research contracts relate to hepatitis, influenza, AIDS, cancer, immunological studies and transgenics.

Part II Maryland — MD UNITED STATES OF AMERICA

Digene Diagnostics Inc

2301-B Broadburch Drive, Silver Spring, MD 20904.
Tel: 301 470 6500 Fax: 301 680 0696

Medical diagnostics company specializing in the production of RNA probes, viral detection kits and hybridization products and accessories. In vitro diagnostic tests are available for human papilloma virus (HPV). Research-use-only tests are available to detect hepatitis B virus (HBV), HPV and a variety of infectious disease targets that have been amplified using the polymerase chain reaction. Hybridization products and accessories include: reagents, liquid and agar media, microbiological plates, sonicated DNA, and microscope slides.

Dynamac International Corp

11140 Rockville Pike, Rockville, MD 20852.
Tel: 301 468 2590 Telex: 248838
Fax: 301 468 2581

PO Box 13706, Research Triangle Park, NC 27709.
Tel: 919 544 6428

Carry out contract research in relation to health and environmental safety including the application of diagnostic techniques to product and process safety.

Dexall Biomedical Labs Inc

18904 Bonanza way, Gaithersburg, MD 29879.
Tel: 301 840 1884 Fax: 301 330 0883

Develop immunodiagnostic tests based on exclusive patented technology. Produce rapid enzyme immuno assay systems for the detection and quantification of immunoglobulins, compact automated photometers, micro strip readers and plate readers.

Electro-Nucleonics Inc

Diagnostics Division

7101 Riverwood Drive, Columbia, MD 21046.
Tel: 301 381 4800/800 346 4364

Produces immunodiagnostic kits against infectious diseases such as herpes, chlamydia, cytomegalovirus and respiratory viruses. Also produces antigens and supplies virus cultures.

Electro-Nucleonics Inc

Cell Science Institute

12050 Tech Road, Silver Spring, MD 20904-1912.
Tel: 301 622 4218/800 422 2236
Fax: 301 622 2705

Provides biotechnology reagents, clinical instrumentation and services in the following areas: centrifugal separation of viruses; cell membranes and components; monoclonal antibody production; protein purification and electrophoresis. Produces human lymphoblast interferon and immunodiagnosics, including radioimmunoassay kits.

Endocrine Society

9650 Rockville Pike, Bethesda, MD 20814.
Tel: 301 571 1802 Fax: 301 571 1869

Engineering Research Center

Biotechnology Program

ERC Wind Tunnel Building, College Park, MD 20742.
Tel: 301 454 1479

Supports faculty research in bioprocess technology and promotes ties with industry. Main areas of interest include microbial fermentation, rDNA fermentation and plant and cell culture.

EpiGene Inc

PO Box 4817, Baltimore, MD 21211.
Tel: 301 235 2375

Products include an electro-transfer system of nucleic acid recovery and electrophoretic equipment.

Exon-Intron Inc

9151 Rumsey Rd, Suite 130, Columbia, MD 21045.
Tel: 410 730 3984 Fax: 410 730 3983

Biotechnology education and consulting firm specializing in laboratory-intensive training programmes in molecular biology and related topics to scientists, researchers and physicians worldwide. In addition, provide training to middle and high school science faculty students and minority scientists. Distributors of electrophoresis units and power supplies as well as latex and vinyl examination gloves. Provide consulting services, grant review and tissue culture services.

Federation of American Societies for Experimental Biology

FASEB

9650 Rockville Pike, Bethesda, MD 20814-3998.
Tel: 301 530 7030 Fax: 301 530 7001

Filterite

Division of Memtec America Corporation

2033 Greenspring Drive, Timonium, MD 21093.
Tel: 301 252 0800/1 800 FILTERS
Fax: 301 252 6027

Manufactures cartridge filters and housings.

Frederick Research Center

431 Aviation Way, Frederick, MD 21701.
Tel: 301 694 3232 Fax: 301 694 7223

Developing cell sorting products.

Genetic Therapy Inc

938 Clopper Road, Gaithersburg, MD 20878.
Tel: 301 590 2626 Fax: 301 948 3774

Develop delivery systems for human gene therapy, a novel approach to treatment of genetic and acquired diseases through which genes are inserted into cells to produce therapeutic proteins in the body. Products include therapeutics, retroviral and viral vectors and targeted delivery systems.

Gentronix Inc

PO Box 34244, Bethesda, MD 20817.
Tel: 301 299 2037

Developing biochips and biomolecular electronics.

GIBCO BRL

PO Box 6009, 8717 Grovemont Circle,
Gaithersburg, MD 20884-9980.
Tel: 301 840 8000/800 828 6686
Fax: 301 6708599/800 331 2286

PO Box 68, Grand Island, NY 14072-0068.
Tel: 800 828 6686 Fax: 800 331 2286

Supplies basal media and serum-free media, media supplements and sera for the growth of mammalian, insect, plant, simple prokaryotic and eukaryotic cells. Also supplies reagents, kits, apparatus and other products for molecular biology, cell biology and immunology.

Harvey S Price

Biotechnology Advocate & Consultant

10001 Dellcastle Rd, Gaithersburg, MD 20879.
Tel: 301 330 8859

Offers consultancy in governmental affairs, public relations and legal aspects of biotechnical developments.

Hazleton Laboratories America Inc

5516 Nicholson Lane, Kensington, MD 20895.
Tel: 703 893 5400 Fax: 301 230 2369

Undertake contract product safety evaluation including in vivo and in vitro testing. Offer consultation services in new product registration.

HEM Pharmaceuticals Corp

9620 Medical Center Drive, Suite 101, Rockville,
MD 20850-3300.
Tel: 301 251 5999 Fax: 301 294 2374

One Penn Center, Suite 660, 1617 JFK Blvd,
Philadelphia, PA 19103.
Tel: 215 988 0080 Fax: 215 988 1739

Produces nucleic acid-based pharmaceuticals for the treatment of viral infections and carcinomas and immunotherapeutics.

Hosho-Somerset Corp

PO Box 759, Crisfield, MD 21817.
Tel: 301 623 2277 Fax: 301 623 2277

Manufacture chitin and chitosan as well as fertilizer and feed from crabs.

IBF Biotechnics Inc

7151 Columbia Gateway Drive, Columbia, MD 21046.
Tel: 301 290 1505/800 752 5277
Fax: 301 290 1509

Manufactures and markets products for separation and cell culture. Product range includes liquid chromatography systems, affinity ion exchangers, gel filtration and adsorption chromatography media, preparative and process HPLC systems. Also markets foetal calf serum substitute for cell culture.

IGEN Inc

1530 E Jefferson St, Rockville, MD 20852.
Tel: 301 984 8000/800 336 IGEN
Fax: 301 230 0158

Founded to develop alternative types and uses of monoclonal antibodies, now conducts research and product development in two areas: catalytic antibodies and the use of electrochemiluminescence as a detection method in research assays and clinical diagnostics. Also markets a line of proprietary reagents used in cell culture and immunology research.

Igene Biotechnology Inc

9110 Red Branch Road, Columbia, MD 21045-2097.
Tel: 301 997 2599 Telex: 650 251 9988
Fax: 301 730 0540

Collaboration with Molecules Naturelles, France, to develop and manufacture fermentation and other natural ingredients for food, feed, flavour and fragrance industries. Products include natural flavourings from fermentation of whey and beet sugar, polysaccharide gums from fermentation of sucrose, non-fat dry milk and egg white replacer as well as calcium and mineral food supplements derived from whey, natural protein food flavouring derived from crab meat, nematocides, chitin-based pesticides and products specifically for fish farming. Fermentation is carried out using genetically selected, non-pathogenic microorganisms and a proprietary process.

Immuquest Laboratory Inc

444 North Fredrick Ave., Ste. 407, Gaithersburg, MD 20877.
Tel: 301 990 3680 Fax: 301 990 8739

Offers an experimental diagnostics testing service. Produces diagnostics for breast cancer and immune competency tests for cancer and AIDS.

Inovar Chemicals Inc

7831 Cessna Ave, Gaithersburg, MD 20879.
Tel: 301 963 1890

Supply foetal bovine serum and growth supplements for cell culture media, thyroid hormones, custom organics and purified plant viruses.

Integrated Diagnostics Inc

PO Box 24124, 1901 Sulphur Spring Rd, Baltimore, MD 21227.
Tel: 301 247 2570/800 TEC INDX
Fax: 301 455 9398

Supply histocompatibility products, latex agglutination kits, HTLV-III antigen assay and clinical test kits as well as immunodiffusion and immunoelectrophoresis equipment.

Inter-American Research Associates Inc

18919 Premiere Court, Gaithersburg, MD 20879.
Tel: 301 926 0713 Telex: 4994466
Fax: 301 926 1348

Manufactures reagents for research and diagnostics including purified antigens, antisera, monoclonal and polyclonal antibodies, blood products and latex reagents. Offers services in custom made diagnostic kits and hybridoma growth enhancing media and supplements.

Johns Hopkins University

Applied Physics Laboratory

Johns Hopkins Road, Laurel, MD 20180.
Tel: 202 953 3720

Developing field-testing methods for assessing resource potential of landfill methane gas sites. Modelling gas generation and processing. Analyzing legal, environmental and socioeconomic effects of landfill gas recovery and use.

Kirkegaard & Perry Laboratories Inc

2 Cessna Court, Gaithersburg, MD 20879.
Tel: 301 948 7755/800 638 3167
Telex: 4997901 kplab Fax: 301 948 0169

Manufactures and markets research reagents for immunology, microbiology and biochemistry including affinity purified antibodies and substrates for microwell ELISA and Western blots. Universal biotin-streptavidin kits and staining reagents are available for immunohistochemical procedures. Also supply antibodies and kits to bacteria as well as poultry diagnostic kits.

LAO Enterprises Inc

19212 Orbit Dr., Gaithersburg, MD 20851.
Tel: 301 977 3127 Fax: 301 840 8308

Offers testing and analytical services and produces cytokines, lymphocytes, interleukin-1a, interleukin-1b, MAb to interleukin-1a, TNF-alpha and MAb to TNF-alpha.

Large Scale Biology Corp

LSB

9620 Medical Center Drive, Rockville, MD 20850.
Tel: 301 424 5989 Fax: 301 762 4892

Provides services and systems for large scale work in the area of two-dimensional gel electrophoresis, including contract research, startup support, consulting, workstation-based analytical software and computer-controlled instrumentation as well as databases (under ongoing development) of information on gene expression and xenobiotic effects in mammalian and plant systems. Produces a scale-independent synthesiser (based on novel patented technology) for the large scale production of oligonucleotides and other biopolymers. Also provides instrumentation for manufacturing western blot strip diagnostic kits.

Lofstrand Labs Ltd

7961 Cessna Avenue, Gaithersburg, MD 20879.
Tel: 301 330 0111 Fax: 301 948 9214

Provides contract support services to the biotechnology industry, including protein radiolabelling, monoclonal and polyclonal antibody production, DNA sequencing, oligonucleotide synthesis, serological testing, assay development, protein isolation and purification and plasmid isolation and insertion.

Mallinckrodt Chemical Inc

Performance and Laboratory Chemicals Division

16305 Swingley Ridge Drive, Chesterfield, MD 63017.
Tel: 314 530 2172 Fax: 314 530 2563

Produces high-grade reagents for genetic research and biotechnical applications and a wide range of other fine chemicals for medical use including medicinal narcotics, acetaminophen and mineral supplements. Operating unit of Mallinckrodt Group Inc, US.

Martek Corp

6480 Dobbin Rd, Columbia, MD 21045.
Tel: 410 740 0081 Fax: 410 740 2985

Produce from microalgae stable-isotope-labelled media and biochemicals for drug discovery, metabolic studies and gastrointestinal diagnostics. Products in development include polyunsaturated fatty acids for infant formula and enteral or parenteral nutrition, new chemical entities as potential pharmaceuticals and aquaculture larval feeds.

Maryland Biotechnology Institute

1123 Microbiology Building, University of Maryland, College Park, MD 20742.
Tel: 301 454 8119/8124 Fax: 301 454 8123

Independent component of the University of Maryland System, conducts basic research and training in biotechnology and provides the resources to further the state's economic and scientific development. Comprises six centres: Advanced Research in Biotechnology; Marine Biotechnology; Medical Biotechnology; Agricultural Biotechnology; Public Issues in Biotechnology; Biotechnology Manufacturing.

Maryland Biotechnology Institute

Medical Biotechnology Center

University of Maryland, 618 W Lombard St, 2nd floor, Baltimore, MD 21201.
Tel: 410 706 8181 Fax: 410 706 8184

Established to carry out basic and clinical research on health-related aspects of molecular biology and biotechnology with major focus on bioimaging, vaccine development, AIDS, nucleic acid metabolism, molecular neurobiology and immunology.

Maryland Plastics Inc

251 E Central Ave, Federalsburg, MD 21632.
Tel: 301 754 5566

Manufactures disposable labware.

University of Maryland

College Park, Baltimore, MD 21228.
Tel: 301 328 3100

Formed a centre for advanced research in biotechnology, a marine biotechnology unit and a university-wide programme in biotechnology to include an institute for biotechnology to be established with the National Bureau of Standards and Montgomery County, at the Shady Grove Life Sciences Center Industrial Park. Overall research includes plant sciences, animal sciences, vaccine development, biosensors and marine biotechnology producing pharmaceuticals, novel chemicals, pollution control systems and biomass from the sea.

University of Maryland

BioTechnology International

Program of International Development Management Center, College Park, MD 20742.
Tel: 301 454 6698 Fax: 301 454 3756

Promote the development of biotechnology worldwide by conducting assessments of government policy, basic research and industry development, organizing information, working with government agencies, universities and companies to develop cooperative and joint R&D ventures, and identifying and evaluating management mechanisms.

University of Maryland

Center for Agricultural Biotechnology

1206 H-J Patterson Hall, College Park, MD 20742.
Tel: 301 454 6056 Fax: 301 343 8143

Established to carry out basic research related to molecular biology of plant and animal protection, establish collaborative efforts with a variety of institutions and university departments, offer solutions to current agricultural problems and cultivate establishment and development of relevant new industries.

University of Maryland

Center for Public Issues in Biotechnology

1014 Administration Building, Catonsville, MD 21228.
Tel: 301 455 3733 Fax: 301 455 1210

Conducts research on all aspects of issues associated with applications of biotechnology and disseminates this information to the public, policy makers and scientists. Areas of investigation include intellectual property rights and patenting of life forms, regulation of associated risks and the role of local and state government, the use of human body parts for research and treatment, and the release of genetically engineered organisms into the environment.

Part II Maryland — MD UNITED STATES OF AMERICA

University of Maryland

Center of Marine Biotechnology

600 East Lombard St, Baltimore, MD 21202.
Tel: 301 783 4800/4803 Fax: 301 783 4806

Conduct basic research in marine molecular biology and biotechnology, provide advanced training in marine molecular biology and stimulate development of marine biotechnology-related industry. Main focus is on molecular biology and molecular genetics of growth, development and reproduction of marine fish, algae and shellfish, microbial products and processes, and ecological processes.

University of Maryland, Baltimore County

Department of Chemistry

Baltimore.

Tel: 410 455 2491 Fax: 410 455 2608

The Center for Structural Biochemistry in the Department specializes in primary and three-dimensional structural analysis of native and recombinant proteins, biopolymers, glycoproteins, carbohydrates, polysaccharides and nucleotides. The Center houses a 4-sector tandem mass spectrometer, a chromatograph/mass spectrometer, a 500 MHz NMR and a 600 MHz NMR with extensive molecular modelling facilities. Other departmental interests include regulation of genes, glyoxalase enzymes, folding and assembly of regulatory enzymes, mass spectrometric applications to biochemistry and biotechnology, helix destabilizing proteins, calcium binding proteins and NMR structural analysis of metalloproteins.

University of Maryland, Baltimore County

Department of Biological Sciences

Baltimore.

Tel: 301 328 3100 Fax: 301 455 3875

Studying the possibilities of increasing photosynthetic productivity by plant cell transformation.

University of Maryland, Baltimore

Center for Biotechnology Manufacturing

Baltimore Campus, Baltimore, MD 21228.

Tel: 301 455 3693 Fax: 301 455 1210

Established to perform research and provide services to industry in process engineering related to the manufacture of biotechnology products using fermentation, plant tissue culture and mammalian cell culture technologies.

Medical Marketing Consultants Inc

3 Bethesda Metro Center, Suite 750, Bethesda, MD 20814.

Tel: 301 656 3648 Fax: 301 656 4106

Provide a comprehensive range of services for companies developing biological diagnostic kits and products. Undertake clinical trials internationally, market research and educational support services. Offer a wide range of consultancy services on regulatory requirements and FDA submissions, product licensing applications and approval etc.

Medimmune Inc

35 W Watkins Mill Rd, Gaithersburg, MD 20878.

Tel: 301 417 0770 Fax: 301 417 6289

Develops therapeutics and vaccines, including a living vaccine for aids and CMV immunoglobulin.

MedTest Systems Inc

335 Paint Branch Drive, College Park, MD

20742-3811.

Tel: 301 403 8145 Fax: 301 314 9592

Has developed a portable, easy-to-use, hand-held cartridge, clinical chemical analyzer to test for electrolytes and organics including (Na, K, Li, Ca, Cl, BUN, creatinine, glucose, cholesterol), based on advanced electrochemical sensor technologies, suitable for clinical, doctor's surgery, paramedical or home visit use.

Microbiological Associates Inc

Life Sciences Center

9900 Blackwell Road, Rockville, MD 20850.

Tel: 301 738 1000 Fax: 301 738 1036

Perform biological testing and research services for the biotechnology and chemical industries. Also a major NIH contractor. For biopharmaceuticals offer cell characterization, retrovirus, final product and process validation testing for FDA submissions. For microbial pesticides, perform mammalian toxicology testing. Also offer general and genetic toxicology assays for evaluating chemicals and develop, evaluate and perform in vitro toxicity assays.

Microcarb Inc

300 Professional Dr, Suite 100, Gaithersburg, MD 20879.

Tel: 301 590 1029 Fax: 301 590 0731

Developing receptor-based vaccines and antibacterials.

National Cancer Institute

9000 Rockville Pike, Bethesda, MD 20892.

Tel: 301 496 4000

Conducts and sponsors research into the causes, prevention, diagnosis and treatment of cancer including research and development on chemo-prevention and cancer control, as well as into AIDS including virologic, immunologic, epidemiologic, genetic and therapeutic aspects. Carries out basic, preclinical and clinical studies of synthetic and purified agents that modify the response to cancer cells. Areas of research have also included the organization of genes coding for mouse polypeptide antigens and the promoter for human globulin genes and inheritance and structure of rDNA in *Drosophila*.

National Institute of Allergy and Infectious Diseases (NIAID)

Room7A-03 Westwood Bldg, Bethesda, MD 20205.

Tel: 301 496 7985

Supplies source material for culture of virus and mycoplasma as well as allergenic extracts and antiserums against human immunoglobulins, viruses and mycoplasma.

National Institutes of Health

Office of Recombinant DNA Activities

Building 31, Room 3B10, Bethesda, MD 20892.

Tel: 301 496 9898

National Institutes of Health

National Cancer Institute

Bethesda, MD 20892.

Tel: 301 496 4164

National Library of Medicine

8600 Rockville Pike, Bethesda, MD 20894.

New Horizons Diagnostics

9110 Red Branch Rd, Columbia, MD 21045.

Tel: 410 992 9357 / 800 888 5015

Fax: 410 992 0328

Produce monoclonal and polyclonal antibodies, reagents and diagnostics for the medical, environmental and food markets.

North American Vaccine Inc

12040 Indian Creek Court, Beltsville, MD 20705.

Tel: 301 470 6100 Fax: 301 470 6198

Engaged in the research, development and production of vaccines, with an emphasis on vaccines for the prevention of pediatric infectious diseases.

Nova Pharmaceutical Corp

6200 Freeport Center, Baltimore, MD 21224-6506.

Tel: 410 558 7000 Fax: 410 522 7199

Develop and commercialize innovative products in areas of significant medical need representing major pharmaceutical markets. Using tools of receptor technology, rational drug design and drug delivery technologies to develop new approaches to the treatment of disease, with a primary focus on two therapeutic areas: inflammation and central nervous system disorders. Has several projects in clinical study including a novel anti-inflammatory agent (Phase I/II), a drug delivery system used to treat primary brain cancer (Phase III), and a bone marrow purging agent (Phase III).

NovaScreen

7170 Standard Drive, Hanover, MD 21076.

Tel: 410 712 4410 Fax: 410 712 4412

Provides a biological screening service, focusing on receptor binding assays, enzyme assays and in vivo assays.

Oncologix Inc

19 Firstfield Rd, Gaithersburg, MD 20878.

Tel: 301 258 3400 Fax: 301 258 3434

A developmental stage biopharmaceutical company singularly focused in the provision of novel differentiated cancer therapeutics. Products under development include oncotoxins that target tumours which over-express erb B-2 oncogene (preclinical) and a drug to be used as adjuvant therapy in the treatment of non-small cell lung cancer (phase III).

Oncor Inc

209 Perry Parkway, Suite 7, PO Box 870,

Gaithersburg, MD 20884.

Tel: 301 963 3500 Telex: 6711699

Fax: 301 926 6129

Manufactures and markets products for nucleic acid analysis using Southern, Northern, in situ and dot/slot hybridization systems. Products include a patented system for integrated electrophoresis and vacuum transfer of DNA/RNA and all associated accessories and reagents for DNA extraction (organic and non-organic), restriction enzymes, electrophoresis and transfer buffers, nylon membranes and detection systems (non-isotopic and isotopic). Probes, primers, genomic DNAs and markers are available for B- and T-cell gene rearrangements, human papillomavirus, HIV in situ and DNA fingerprinting for parentage and forensic analyses.

Oncotherapeutics Inc

51 Monroe St, Suite 1700, Rockville, MD 20850.

Tel: 301 948 2970 Fax: 301 738 8832

Manufactures products for the delivery of cancer immunotherapeutics.

Osiris Therapeutics Inc

2001 Aliceanna St, Fells Point, Baltimore, MD.
Developing cellular implants and cell matrix products for the treatment of soft tissue and bone disorders.

OT Biotechnology Research Institute

1330-A Piccard Drive, Rockville, MD 20850.
Tel: 301 921 0422/800 354 0809
Fax: 301 840 2161

Comprehensive biomedical research and development organization engaged in internal research and development of rapid diagnostics and therapeutics for cancer and other diseases. Research services include monoclonal antibody development, characterization, and application; immunoassay development; and recombinant DNA technologies. In addition, offer quality research products including lipoproteins, apolipoproteins, monoclonal antibodies, labelled reagents and ELISA test kits.

Otsuka America Pharmaceutical Inc

9900 Medical Center Drive, Rockville, MD 20850.
Tel: 301 424 9055 Fax: 301 424 9054
Carrying out cell immunology research. Subsidiary of Otsuka Pharma, Japan.

P & S Biochemicals

7879 Cessna Avenue, Gaithersburg, MD 20879.
Tel: 301 670 9078 Fax: 301 963 7026

Manufacture products for use in molecular biology and genetic manipulation including DNA labelling systems for construction of single stranded probes from restriction fragments as well as restriction enzymes, lambda packaging systems and nucleotide synthesis systems. Also produce reagents for electrophoresis, separation technologies, monoclonal and polyclonal antibodies as well as disposable pipette tips and centrifuge tubes.

Peptide Technologies Corp

8401 Helgerman Court, Gaithersburg, MD 20877.
Tel: 301 869 7306 Fax: 301 869 7308

Offer custom synthesis of peptides, chromatography and amino acid analysis. Developing chromatography equipment and synthetic neuropeptides. Carrying out structure-activity research of neuropeptides and hormones.

Pharmacia ENI Diagnostics Inc

Cell Science Institute
8310 Guilford Rd, Columbia, MD 21046.
Tel: 301 381 4800/800 422 2236
Telex: 898491 Fax: 301 381 9164

12050 Tech Rd, Silver Springs, MD 20904-1912.
Tel: 301 622 4218/800 422 2236 Fax: 301 622 2705

Produce diagnostic kits for blood and clinical testing including AIDS tests, media for cell and tissue culture, mammalian and animal cell lines, reagents for immunology including EIA and viral antigens.

Pharmavene Inc

35 West Watkins Mill Rd, Gathersburg, MD 20878.
Tel: 301 417 0033 Fax: 301 417 6266

Developing therapeutics for the treatment of addictive disorders of the central nervous system.

Quality Biological Inc

7581 Lindbergh Drive, Gaithersburg, MD 20879.
Tel: 301 840 9331 Fax: 301 840 5450

Manufacturer and distributor of culture media and reagents including serum-free media and molecular biology products.

Scientific Specialities Service Inc

PO Box 352, Randallstown, MD 21133.
Tel: 410 712 4400 Fax: 410 712 4401

Supplies glass and plastic vials, bottles and jars for EPA protocol testing and for medical and industrial applications.

Selkagaku America Inc

30 West Gude Drive, Suite 260, Rockville, MD 20850.
Tel: 301 424 0546/800 237 4512
Fax: 301 424 6961

Supplies monoclonal antibodies for research.

Sigma-Tau Pharmaceuticals Inc

200 Orchard Ridge Dr, Suite 300, Gaithersburg, MD 20878.
Tel: 301 948 1041 Fax: 301 948 1862

Supplies pharmaceuticals and consumer health and dental care products. Developing products for the treatment of metabolic disorders associated with carnitine deficiency, peripheral arterial disease and Alzheimer's disease. A subsidiary of Sigma-Tau Spa (Italy).

Spiral Biotech Inc

7830 Old Georgetown Rd, Bethesda, MD 20814.
Tel: 301 657 1620 Fax: 301 652 5036

Produce equipment for microbiology including colony counters and platers, antibiotic susceptibility systems and computer software for clinical assays as well as gravimetric diluters and bacteriological air samplers.

SRA Technologies Inc

9600 Medical Center Drive, Ste 102, Rockville, MD 20850.
Tel: 301 309 8202 Fax: 301 309 9670

Provides practical and tailored applications of technologies such as PCR, flow cytometry and cellular immunology, to the diagnosis of most human infectious diseases including AIDS, hepatitis, influenza, HHV-6, EBV and leishmaniasis.

Stellar Bio Systems Inc

9075 Guilford Rd, Columbia, MD 21046.
Tel: 301 381 8550 Fax: 301 381 8984

Manufacture indirect fluorescent assay test kits and reagents for the detection of antibodies to infectious diseases. Undertake custom antibody and antigen production and development of in vitro diagnostics.

Sternberger Monoclonals Inc

Hopkins Bayview Research Ctr., 5210 Eastern Ave., Baltimore, MD 21224.
Tel: 301 550 2644 Fax: 301 550 2643

Produces MAbs for neuroscientific applications, antibodies for immunocytological and immunochemical detection, and staining reagents.

Supertechs Inc

P.O. Box 585, Bethesda, MD 20827.
Tel: 301 390 6695 Fax: 301 365 3364

Produces enzymes, MAbs, polyclonal antibodies, proteins and polynucleotides.

Survival Technology Inc

2275 Research Blvd, Rockville, MD 20850.
Tel: 301 926 1800 Fax: 301 926 6186

Technology-based health care company that designs, develops and produces automatic injectors and other drug delivery systems as well as medical electronics with the major focus on safe and convenient participation by the patient in injection therapy. The company's proprietary technology includes methods for enhancing absorption of high molecular weight proteins. Also offers delivery system design, pharmaceutical research and development and sterile product manufacturing worldwide.

Synthecell-Vega Biomolecules Corp

7101 Riverwood Drive, Columbia, MD 21046.
Tel: 410 312 5640/800 336 7455
Fax: 410 381 7547

Produce custom synthetic peptides, DNA and antisense DNA under GMP. Several grades based on levels of purity are offered. Quantities range from milligrams to kilograms. Many additional services are available including contract manufacturing and regulatory affairs consulting.

Terumo Corp

Diagnostics Division
PO Box 605, 950 E Elkton Blvd, Elkton, MD 21921.
Tel: 301 398 0043 Fax: 301 392 7218

Supply blood collection and processing equipment.

Theracel Corp

3 Bethesda Metro Center, Suite 750, Bethesda, MD 20814.
Tel: 301 961 1995 Fax: 301 762 2561

Develops growth factors, immunomodulators, antivirals and anti-inflammatory therapeutics.

Tissue Culture Association

1 Bank Street Suite 210, Gaithersburg, MD 20760.

Trans-Type Diagnostics

5716-G Industry Lane, Frederick, MD 21701.
Tel: 301 695 7087 Fax: 301 695 1447

Manufacture and market products for clinical, research and blood centre use to determine phenotypes in medical, research and parentage testing.

UNIPUB

4611-F Assembly Drive, Lanham, MD 20706-4391.
Tel: 301 459 7666/800 274 4888
Fax: 301 459 0056

For sales and subscriptions to publications of the European Communities.

Universal Biotechnology Inc

13 Taft Ct., Rockville, MD 20850.
Tel: 301 294 2297 Fax: 301 294 8095

Produces diagnostics, MAbs, western blot assays, RIA, EIA, diagnostics for human retroviruses, including herpes, molecular biology kits and antigen capture kits.

University Micro Reference Laboratory Inc

611 P Hammonds Ferry Rd, Linthicum, MD 21090.
Tel: 301 789 3636/800 468 4876
Fax: 301 789 3638

Holds microbial culture collections including bacterial reference strains. Carries out batch processing of microbial strains.

Part II Massachusetts — MA UNITED STATES OF AMERICA

Varex Corp

Burtonsville Commerce Center, 4000 Blackburn Lane, Burtonsville, MD 20866.
Tel: 301 421 1616 Fax: 301 421 1882

Manufacture HPLC equipment.

Viral Technologies Inc

Two Democracy Center, 6903 Rockledge Drive, Suite 1200, Bethesda, MD 20817.
Tel: 301 530 7038 Fax: 301 565 4424

50% owned subsidiary of CEL-SCI, US, developing HGP-30 for the prevention, treatment and diagnosis of the acquired immune deficiency syndrome (AIDS). Has been evaluated for safety in two clinical trials conducted with normal, HIV-negative individuals. Results of both studies show it to be well tolerated and to elicit immune responses.

Wallac Inc

9238 Gaither Rd, Gaithersburg, MD 20877.
Tel: 301 963 3200/800 638 6692
Fax: 301 963 7780/800 6386692

Manufacture label counting systems which can handle 96-well sample trays. As well as beta counters the system may include gamma counters, platereaders, luminometers and fluorometers.

WR Grace & Co

Research Division

7379 Route 32, Columbia, MD 21044.
Tel: 410 531 4000 Fax: 410 531 4367

Manufacture speciality chemicals using genetic engineering in pharmaceutical and veterinary medicine including products for bovine improvement as well as bull semen. Produce a mammalian cell culture system using hollow fibre cell culture reactors, improved membranes for diagnostic kits, artificial organs from membranes, mammalian cells and monoclonal antibodies.

Massachusetts — MA

A/G Technology Corp

101 Hampton Ave, Needham, MA 02194-9808.
Tel: 617 449 5774/800 AGT (248) 2535
Fax: 617 449 5786

Manufactures hollow fibre and tubular crossflow membrane cartridges for ultrafiltration and microfiltration. Applications include protein concentration and purification, perfusion and cell harvesting. Also provides compact, self-contained air separation systems for nitrogen generation or oxygen enrichment.

Aaston Inc

12 Falmouth Rd, Wellesley, MA 02181.
Tel: 617 237 3755 Fax: 617 239 0455

Manufactures and supplies a wide range of speciality proteins including: immunoglobulin binding proteins (Protein A, Protein Ab, Protein Abh, Protein G and Protein Lc); diagnostic proteins (streptavidin, lactate dehydrogenase, malate dehydrogenase, glucokinase, glycerol kinase, glycerol dehydrogenase, alkaline phosphatase and beta galactosidase); enzymes (tyrosinase, superoxide dismutase and beta lactamase); and growth factors (human somatotrophin, luteinizing hormone and follicle stimulating hormone). Developing next generation protein ligands for diagnostic applications and for separations.

Abbott Biotech Inc

119 Fourth Ave, Needham Heights, MA 02194.
Tel: 617 449 6002 Fax: 617 449 4010

Using cell culture, recombinant DNA and hybridoma technology in the development and production of therapeutics and diagnostics. Products include monoclonal antibodies, diagnostics for AIDS, drug delivery systems, TPA and a lung surfactant.

AD Instruments

MacLab Division

PO Box 845, Milford, MA 01757.
Tel: 800 234 1757 Fax: 508 634 8869

Products include laboratory software for data logging, analysis and imaging.

Adaps Inc

300 Greenlodge Street, Dedham, MA 02026.
Tel: 617 326 6935

Supplies medical electronic equipment, including automatic processor for bioassays with cell harvester and disposable chambers.

Advanced Instruments Inc

1000 Highland Ave, Needham Heights, MA 02194.
Tel: 617 449 3000/800 225 4034
Fax: 617 455 8468

Manufacture dedicated bilirubinometers, freezing point osmometers and sweat collection systems.

Advanced Magnetics Inc

61 Mooney St, Cambridge, MA 02138.
Tel: 617 497 2070/800 343 1346
Fax: 617 497 6927

Produces immunodiagnostics and immunoreagents including polyclonal antibodies, cell separation media, immobilized antibodies and conjugated antibodies as well as bacterial products such as Staphylococcus protein A and reagents for EIA and radioimmunoassay kits. Manufactures magnetic particles for cell sorting, lymphocyte isolation, molecular biology and immunoprecipitation. Also has extensive contract research, development and manufacturing experience and facilities.

AEM Consultants

30 Federal Street, Salem, MA 01970.
Tel: 617 744 5923

Management consultancy firm serving high technology industries on an international basis. Provides information, process evaluation, custom studies, marketing and operational reports. Experience includes large-scale fermentation and other biotechnology facilities, market evaluation of filtration systems, systems analysis of microprocessor control requirements, product assessment of control instrumentation, evaluation of heat transfer systems, market planning for process industries etc.

Alkermes Inc

64 Sidney St, Cambridge, MA 02139.
Tel: 617 494 0171 Fax: 617 494 9255

Developing therapeutics and drug delivery systems for treatment of CNS infections, brain tumours, Alzheimer's disease and AIDS dementia.

Alko Diagnostic Corp

Alko Park, 333 Fiske St, Holliston, MA 01746-0519.
Tel: 508 429 4600/800 828 2556
Fax: 508 429 4900

Supply automated analyzers, electrodes and reagents. Developing membrane-assay technology. Subsidiary of Alko, Finland.

Allied Instrumentation Laboratory

113 Hartwell Avenue, Lexington, MA 02173.

Manufactures an integrated analytical instrument which uses multiple detection techniques including absorbance, light scatter, fluorescence and potentiometry at the same time. Suitable for analysis of proteins and therapeutic drugs.

Alpha-Beta Technology Inc

One Innovation Drive, Worcester, MA 01605.
Tel: 508 798 6900 Fax: 508 754 2579

Main area of activity is the development of therapeutics. Products also include immunostimulants, wastewater treatment products, food additives and carbohydrate polymers.

American BioAnalytical Inc

10 Huron Drive, Natick, MA 01760.
Tel: 508 655 4336/800 443 0600
Fax: 508 655 2754

Supply ultrapure chemicals and products for electrophoresis, DNA synthesis, protein and peptide synthesis and cell culture.

American Holographic Inc

521 Great Rd, PO Box 1310, Littleton, MA 01460.
Tel: 508 486 9621 Fax: 508 486 9080

Manufactures spectral measurement devices for OEM and single sale. Offers engineering support for R&D, customsised measurements. Products include: holographic diffraction gratings (plane, concave and laser), spectrographs (single and dual beam) and monochromators (single and double).

American International Chemical Inc

17 Strathmore Rd, Natick, MA 01760.
Tel: 508 655 5805/800 238 0001
Telex: 948342 Fax: 508 655 0927

Supplier of purification reagents, biological buffers and speciality chemicals. Products include electrophoresis reagents, ceramic hydroxyapatite, ion exchange and affinity chromatography media, stains, enzymes, enzyme substrates and DNA synthesis reagents.

American Lewa Inc

132 Hopping Brook Rd, Holliston, MA 01746.
Tel: 508 429 7403 Fax: 508 429 8615

Supply high performance plunger and seal-less diaphragm pumps for use in liquid chromatography, laboratory and production processes. Also supply sanitary and CIP pumps as well as multiplex pumps for blending and proportioning.

Amicon Inc

W R Grace & Co

72 Cherry Hill Drive, Beverly, MA 01915.
Tel: 508 777 3622/800 4 AMICON
Telex: 275192 Fax: 508 777 6204

Manufactures and supplies a wide range of products related to separation technology including membrane ultrafiltration, microfiltration and chromatography. Membranes include a wide range of semipermeable types and disposable filter units including filters resistant to a variety of solvents. Materials for affinity chromatography include activated support ready to use immobilized ligands. Also produces chromatography media, advanced-design columns and chromatographs for preparative liquid chromatography.

Analytical Biotechnology Services

20 Staniford St, Boston, MA 02114.
Tel: 617 248 5810 Fax: 617 523 6649

Offer protein and peptide characterization and peptide synthesis services.

Andonian Cryogenics Inc

26 Farwell St, Newtonville, MA 02160.

Tel: 617 969 8010/800 446 3533
Fax: 617 969 0334

Manufacturer of cryogenic storage equipment, research cryostats and gas handling equipment.

Applied bioTechnology Inc

80 Rogers Street, Cambridge, MA 02142.

Tel: 617 492 7289 Fax: 617 492 8438

Developing vaccines based on viral vectors. Human vaccines include AIDS, TB and leprosy. Marketing an in situ diagnostic kit for HIV for the research market. Other in situ kits for viral and genetic testing are being developed. Has joint venture with Du Pont-Oncogenetics, US in cancer research. Using monoclonal antibodies and DNA probes for diagnostic and therapeutic uses in relation to cancer and the expression of oncogenes.

APV Gaulin Inc

500 Research Drive, Wilmington, MA 01887.

Tel: 508 988 9300 Telex: 0174257

Fax: 508 988 9111

Manufacture and market high pressure homogenizers.

APV Homogenizers Gaulin/Rannie

500 Research Drive, Wilmington, MA 01887-4400.

Tel: 508 988 9300 Fax: 508 988 9111

Manufactures a complete line of laboratory scale, pilot plant and industrial homogenizers and pumps.

Aquacultural Research Corp

PO Box 2028, Dennis, MA 02638.

Tel: 503 385 3933 / 800 334 1380

Carry out research in shellfish genetics and production.

Arcturus Pharmaceutical Corp

260 W. Cummings Park, Woburn, MA 01801.

Tel: 617 938 1686 Fax: 617 938 1337

Developing products for treatment of dermatological disorders including topical immunosuppressives, antipruritics and anaesthetics.

Ariad Pharmaceuticals Inc

26 Lansdowne Street, Cambridge, MA 02139.

Tel: 617 494 0400 Fax: 617 494 8144

Developing pharmaceuticals based on intracellular signalling technology.

Arthur D Little Inc

25 Acorn Park, Cambridge, MA 02140.

Tel: 617 864 5770

Contract research and consulting organisation offering a wide range of services including R&D and consulting in biotechnology such as immobilized proteins, biosensors, downstream processing and biotechnology-based diagnostics.

Artisan Industries Inc

73 Pond St, Waltham, MA 02254.

Tel: 617 893 6800 Fax: 617 647 0143

Design and supply custom, fully-automated bioreactors for mammalian cell culture as well as a range of associated equipment for fermentation systems.

Asfour Associates Inc

63 South St, Hopkinton, MA 01748.

Tel: 508 435 1926 Fax: 508 435 2657

Designs and constructs laboratories and mechanical systems and offers contract architectural and engineering services for biotechnology companies.

Associates of Cape Cod Inc

PO Box 224, Woods Hole, MA 02543-0224.

Tel: 508 540 3444/800 LAL TEST

Fax: 508 540 8680

Produce automated analyzers and test kits for LAL.

Autochrom Inc

PO Box 207, Milford, MA 01757-0207.

Tel: 617 478 2670

Manufacture equipment for preparative high performance liquid chromatography.

Autogen Instruments Inc

181 Elliott St., Suite 105, Beverly, MA 01915.

Tel: 508 922 9220 Fax: 508 922 1463

Manufactures fully automated nucleic acid extraction and purification systems.

Badger Engineers Inc

One Broadway, Cambridge, MA 02142.

Tel: 617 494 7000 Fax: 617 494 7740

Offers contract technology, engineering and construction services and environmental audits to the biotechnology industry.

Balston Inc

703 Massachusetts Ave, Box C, Lexington, MA

02173.

Tel: 617 861 7240/800 343 4048

Supply equipment and accessories for gas and liquid chromatography and HPLC, filtration, spectrometry and vacuum evaporation.

BASF Bioresearch Corp

195 Albany St, Cambridge, MA 02139.

Tel: 617 868 5700 Fax: 617 577 8129

Produces chemicals. Also developing agricultural crop protection products (see Basf AG, Germany).

Baxter Healthcare Corp

Clinical Assays Division

620 Memorial Drive, Cambridge, MA 02139.

Tel: 617 492 2526/800 225 1241

Telex: 921461

Manufactures radioimmunoassay diagnostic test kits for use in research and clinical laboratories.

Baxter Lytengen Systems Inc

formerly Amdev Inc

35 Cherry Hill Drive, Danvers, MA 01923.

Tel: 508 777 8690/800 822 8014

Fax: 508 777 8695

Manufacture and supply electrolyte analyzers, modules, electrodes and reagents. Develop, licence and manufacture electrochemical sensor technology.

BBN Software Products Corp

10 Fawcett St, Cambridge, MA 02238.

Tel: 617 864 1780

Supplies computer software for use in experimental design and data analysis including facilities for selection and application of statistical methods and the interpretation of statistical results.

BBN Systems and Technologies

A Division of Bolt Beranek and Newman Inc

10 Moulton Street, Cambridge, MA 02138.

Tel: 617 873 3000 Telex: 921470

Fax: 617 873 3776

Supplies graphics workstation software for research data management, analysis, visualization, information sharing and database access. Includes tools for statistics, biomath modelling, genetic sequence handling and molecular modelling.

Bio Rational Technologies Inc

218 Sudbury Road, Stow, MA 01775.

Tel: 508 562 7629

Produce a Mistifier (TM) for use in cell culture and tissue culture.

Bio-Eng Inc

216 Sylvania St, Arlington, MA 02174.

Tel: 617 641 0367 Fax: 617 354 4021

Produces biologics and natural products. Carries out R&D on microbial cell disruption, temperature-dependent viral inactivation and liposome formulation.

Bio-Rad Laboratories

Microscience Division

19 Blackstone St, Cambridge, MA 02139.

Tel: 617 864 5809/800 444 1422

Fax: 617 864 9328

Manufacturer of confocal laser scanning microscopy equipment, light microscopes and the dermascope.

Biofish Associates

11 Lakeridge Drive, Georgetown, MA 01833.

Tel: 508 352 7015 Fax: 508 352 7015

Written requests: PO Box 1598, Gloucester, MA 01931

Offer fish tissues and organs on a custom basis for use in immunological and biochemical studies.

Biogen Inc

14 Cambridge Center, Cambridge, MA 02142.

Tel: 617 252 9200 Telex: 710 320 1178

Fax: 617 252 9617

Using molecular biology and genetic techniques aimed at the production of pharmaceuticals and chemicals, including interferon, vaccines, insulin and ethanol. Interests include development of fibrinolytics, blood factor VIII, somatomedin C, alpha, beta and gamma interferons, lymphokines including interleukin-2 and tumour necrosis factor, erythropoietin, lipomodulin, human serum albumen, human vaccines to viral infections, foot and mouth disease vaccines, animal growth hormones and herbicides. Have developed DNA sequences, recombinant DNA molecules and processes for production of bovine growth hormone-type polypeptides.

Biohybrid Technologies Inc

910 Turnpike Road, Shrewsbury, MA 01545.

Tel: 508 842 4460 Fax: 508 842 7535

Produce artificial pancreas.

Biomeasure Inc

9-15 E Avenue, Hopkinton, MA 01748.

Tel: 508 435 6863 Fax: 508 435 4462

Offer services in custom synthesis of peptides and speciality chemicals and screening. Developing peptide based drugs.

Part II Massachusetts — MA UNITED STATES OF AMERICA

Biomedical Technologies Inc

378 Page St, Stoughton, MA 02072.
Tel: 617 344 9942 Telex: 910 240 3255
Fax: 617 341 1451

Manufactures protein hormones and other proteins and peptides, including insulin, calmodulin, EGF, TGF-beta, LDL, and cell growth factors, as well as monoclonal and polyclonal antibodies, radiolabelled compounds and isotopes, and materials and kits for radioimmunoassay. Offer custom services in protein purification, radioiodination and antiserum production.

The Biomedx Group Inc

8 Whittier Place, Suite 22 K, Boston, MA 02114.
Tel: 617 742 4432 Fax: 617 742 4432

Consortium of physician-scientists with expertise in a diversity of clinical and scientific areas as consultants to the biotechnology and health care industries. The Group offers a perspective on the scientific foundations as well as the diagnostic and therapeutic utility of research and investment proposals.

Biometrics

245 Winter St, Waltham, MA 02154.
Tel: 617 684 8331 Fax: 617 684 8335

Offers scale-up engineering services for the bulk production of antibiotics, single-cell proteins, vaccines, enzymes and MAbs.

Bioprocess Automation Inc

One Kendall Square, Suite 151, PO Box 9171, Cambridge, MA 02139.
Tel: 617 621 7175 Fax: 617 494 1394

Supply bioreactor control systems, data handling and analysis software.

Biopure

68 Harrison Ave, Boston, MA 02111.
Tel: 617 350 7800 Fax: 617 350 6614

Offer custom services in fermentation, protein purifications, development of enzyme technology and contract pharmaceutical research.

Biosource Inc

78 Burncoat Street, Worcester, MA 01605.
Tel: 508 853 8803 Fax: 508 853 8772

Recruitment consultants specialising in biotechnology, pharmaceuticals, diagnostics, membrane and biotech service industries.

BioSurface Technology Inc

64 Sidney St, Cambridge, MA 02139.
Tel: 617 494 8484 Fax: 617 494 6561

Developing the production of human skin tissue culture for repair therapy.

Biotechnology Development Corp

44 Mechanic Street, Newton, MA 02164.
Tel: 617 965 7255 Telex: 755709
Fax: 617 965 6952

Supplies equipment for biotechnology including microfluidizers for production of liposomes and microemulsions as well as drug delivery systems. Developing an AIDS vaccine.

Boston Biomedical Consultants

100 Fifth Avenue, Waltham, MA 02154.
Tel: 617 890 5060

545 Middlefield Rd, Suite 160, Menlo Park, CA 94025.
Tel: 415 326 5060 Fax: 415 326 1758

Provides management consulting services to the biomedical industry. Assists clients in reaching strategic market planning and business development decisions, as well as technological assessments of new products and processes. Additionally, the company conducts appraisals of potential acquisition, licensing and divestiture candidates for investment organizations and has participated in some of the major acquisition decisions in the industry.

Boston Biostatistics Inc

1007 Chestnut St, Newton Upper Falls, MA 02164.
Tel: 617 527 1332 Fax: 617 527 7989

Provides support for all phases of the clinical study process. Experienced in FDA submissions for therapeutics, devices and biologics. Conduct clinical studies for drugs (phases II, III and IV).

Brandeis University

Department of Biology

415 South Street, Waltham, MA 02154.

Investigating DNA sequences in micronucleus of *Tetrahymena*, regulation of gene expression during cell growth cycle of yeasts, regulation of differentiation in *Bacillus*, control of cell type and differentiation in yeast and in studies of mating genes, and synthesis of oocytes in RNA sequences.

Brandeis University

Rosenstiel Center, Medical Sciences Research Center

415 South Street, Waltham, MA 02254.
Tel: 617 736 2461

Studying the structure function relationship of the plasma membrane protein ATPase in yeast, to develop antifungal drugs for use by AIDS patients. Also studying transport of antibodies from mother to fetus across the placenta.

Brandeis University

Photobiology Group

Biology Department, Waltham, MA 02154.
Tel: 617 736 2685 Fax: 617 736 2689

Studying sulphur metabolism and chloroplast development in algae such as *Euglena* and hydrogen metabolism in intact green algae *Chlorella* and *Chlamydomonas*.

Brookfield Engineering Laboratories Inc

240 Cushing Street, Stoughton, MA 02072.
Tel: 617 344 4310/800 628 8139
Telex: 924497 Fax: 617 344 7141

Manufacture viscometers and accessories.

Brucker Instruments Inc

Manning Pk, Billerica, MA 01821.

Manufacture digital NMR and IR spectrometers

BioMolecular Assays Inc

25 Olympia Avenue, Unit #S, Woburn, MA 01801.
Tel: 617 932 3959 Fax: 617 932 8705

Offer contract product development services for immunoassays and DNA probe binding assays. Produce speciality biochemical tests.

Cambridge Analytical Associates Inc

12 Dak Park, Bedford, MA 01730-1414.

Develop microbial cultures for treatment of hazardous wastes including methane-utilizing bacteria.

Cambridge Isotope Laboratories

CIL

20 Commerce Way, Woburn, MA 01801.
Tel: 617 938 0067/800 322 1174
Telex: 951935 Fax: 617 932 9721

Manufacture a wide range of stable isotope labelled biochemical research products including amino acids, lipids and fatty acids, steroids and sugars labelled with carbon (¹³C), deuterium, oxygen (¹⁷O and ¹⁸O) and nitrogen (¹⁵N). Also offer custom synthetic services.

Cambridge Medical Diagnostics Inc

PO Box 315, Newton Highlands, MA 02161-0004.

Develop and manufacture kits and components for radioimmunoassays and automated immuno-coating as well as reagents for enzyme, biochemical and histochemical research and monoclonal and polyclonal antibodies. Offer custom iodination, lyophilization and antiserum production. Subsidiary of Cambridge Medical Technology, US.

Cambridge Neuroscience Research Inc

1 Kendall Square, Cambridge, MA 02139.
Tel: 617 225 0600 Fax: 617 225 2741

New research and development company working on new neuroscience products such as anti-psychotic and stroke drugs. Using techniques of molecular biology to characterize and express specific cell receptor systems as well as to model the molecular processes involved.

Cambridge Technology Inc

23 Elm Street, Watertown, MA 02172-2821.
Tel: 617 923 1181 Fax: 617 924 8378

Manufactures microplate fluorometers, microplate luminometers and ELISA microplate readers for 6, 12, 24, 48 and 96-well plates as well as cell harvesters for cytoproliferation and radioligand binding assays.

Cellcor Inc

200 Wells Ave, Newton, MA 02159.
Tel: 617 332 2500 Fax: 617 965 8398

Develop, manufacture and market immunotherapeutics based on living cells for the treatment of cancer and infectious diseases. Currently developing products for the treatment of metastatic and non-metastatic renal cell carcinoma, melanoma, prostate and chronic hepatitis B.

Center for Blood Research

CBR Laboratories Inc

800 Huntington Avenue, Boston, MA 02115.
Tel: 617 731 6470/800 437 8222
Fax: 617 738 8993

Provides preclinical testing services for the biotechnology industry as a source of revenue to support research on blood factors, immunogenetics and molecular techniques for the diagnosis of infectious diseases.

Charles River Laboratories (CRL)

251 Ballardvale Street, Wilmington, MA 01887.
 Tel: 508 658 6000/ 800 356 2544
 Fax: 508 658 7132

A contract manufacturer of murine-derived monoclonal antibodies. Has multiple GMP manufacturing sites and technical expertise in production of veterinary biologicals, diagnostics and clinical/therapeutic grade products for domestic and international markets. A Bausch & Lomb company.

ChemGenes Corp

145 Newton St, Waltham, MA 02154.
 Tel: 617 899 2959/9489/800 762 9323
 Fax: 617 647 3063

Produce intermediates for DNA synthesis, phosphoramidites, nucleosides, DNA-based diagnostics and RNA intermediates. Developing DNA-probe diagnostics and biologically active peptides.

Chemsoft Inc

892 Main St, Wilmington, MA 01887.
 Tel: 508 657 8881 Fax: 508 657 8228

Develop software systems for computer-aided molecular design.

Chesnut Hill Consultants Inc

55 Hallwood Road, Chesnut Hill, MA 02167.
 Consultants in the area of immunology.

Ciba-Corning Diagnostics Corp

Critical Care Division
 63 North St, Medford, MA 02502.
 Tel: 508 359 7711/800 255 3232

Manufactures reagents, human clinical diagnostics and kits for quality control in cell growth systems using simple isoenzyme electrophoresis. Have developed an automated monoclonal assay for thyroid hormones involving chemiluminescence and magnetic separation techniques. Subsidiary of Ciba-Geigy, Switzerland and Corning Glass, US.

Collaborative Diagnostics

100 Beaver St, Waltham, MA 02154.
 Tel: 617 487 7979 Fax: 617 487 7960

1365 Main St, Waltham, MA 02154

Provide comprehensive diagnostic services for genetic diseases. Subsidiary of Collaborative Research, US.

Collaborative Research Inc

2 Oak Park, Bedford, MA 01730.
 Tel: 617 275 0004/800 343 2035
 Fax: 617 275 7670

Products include growth factors, hormones, enzymes etc, for support of mammalian cells under defined medium conditions, defined sequence oligonucleotides, linkers, nucleotide cellulose and restriction enzymes etc, for recombinant DNA technologies. Entering into long-term commercial cooperations with major companies and government agencies to develop products in the health-care, agricultural and industrial fields. Offer clinical services in the use of DNA probes for bone marrow, cystic fibrosis, paternity testing and polycystic kidney disease. Licenses and sells DNA probes for use in paternity testing and forensic analysis.

Connecticut Valley Biological Supply Co Inc

82 Valley Rd, Southamptn, MA 01073.
 Tel: 413 527 4030/800 628 7748

Supply cultures of microorganisms including bacteria, yeasts, fungi and both marine and fresh water algae.

Consolidated Stills and Sterilizers

76 Ashford St, PO Box 297, Boston, MA 02134-0003.
 Tel: 617 782 6072 Fax: 617 787 5865

Manufacture sterilizers and stills.

Consulting Resources Corporation

CONRESKO

Six Northbrook Park, Lexington, MA 02173.
 Tel: 617 863 1222 Telex: 220883
 Fax: 617 863 1441

International management consultants providing professional services to executives involved in the biotechnology and chemical industry. Specialize in product and technologies assessment, business/market analysis and strategic planning. Knowledgeable in science and engineering as well as management and economics.

Continental Laboratory Products

Nine Cypress Drive, Burlington, MA 01803.
 Tel: 617 272 4458 Fax: 617 273 5468

Supply liquid handling products which include a complete line of biotechnology-grade pipette tips, sample collection and transport kits, microcentrifuge tubes, latex gloves and bio-hazard bags.

Costar Corp

One Alewife Center, Cambridge, MA 02140.
 Tel: 617 868 6200/800 492 1110
 Fax: 617 868 2076

Supplies a wide range of disposable laboratory ware ranging from culture dishes to well clusters and pipettes, microtitration plates, assay plates and strips designed for use in hybridoma studies, as well as bacterial detection systems, microcarriers and matrices, bacteriological and other filters, and radiation safety equipment.

Creative BioMolecules Inc

45 South St, Hopkinton, MA 01748.
 Tel: 508 435 9001 Fax: 508 435 6951

Discover and develop products for the regeneration and restoration of human tissues and organs. Products under development are based on two classes of naturally occurring proteins, morphogenic proteins and growth factors, that act as signals in initiating and regulating the cellular events involved in tissue and organ formation. Current product development efforts are focused on indications in orthopaedic reconstruction, dental therapeutics, gastrointestinal disorders and metabolic bone diseases.

Cyborg Division/ Fidelis Group Inc

97 Bridge St, Newton, MA 02158.
 Tel: 617 964 9020 Fax: 617 332 8819

Produce combined hardware and software systems with recorder, data logger, alarm monitoring, automatic data collection and data reduction facilities designed for use in the monitoring of processes, waste and effluent production, energy use, etc in food, pharmaceutical and chemical industries. Also suitable for accumulation and analysis of data from repeated laboratory procedures with scans of up to 64 parameters and frequencies varying from minutes to days. Calculations include first and second derivatives, areas under curves and statistical treatments.

Cytogen Research and Development Inc

89 Bellevue Hill Rd, W Roxbury, MA 02132.
 Tel: 617 325 7774 Fax: 617 327 2405

Supply Armenian and Chinese hamsters for production of stable hamster-mouse hybridomas worldwide.

Cytokine Sciences Inc

25 Harvard St, Boston, MA 02111.
 Tel: 617 742 6528

Develop and market radioimmunoassays for research including rabbit IL-1 alpha and IL-1 beta RIAs as well as other related cytokine reagents for analysis in rat and mouse.

Cytomed Inc

840 Memorial Drive, Cambridge, MA 02139.
 Tel: 617 661 3400 Fax: 617 661 7364

Develop and produce pharmaceuticals to treat inflammation and autoimmune diseases including a dual function antagonist, membrane cofactor protein and CD28 lymphocyte receptor.

Damon Biotech Inc

119 Fourth Avenue, Needham Heights, MA 02194.
 Tel: 617 449 0800/800 225 7786
 Telex: 200228

Manufactures and markets cell products on a contract basis. One of the largest suppliers worldwide of monoclonal antibodies to industry and the medical community. Conducts research on development of proprietary biological and pharmaceutical delivery products, AIDS diagnostics and TPA. Has patented system to encapsulate living cells. Subsidiary of Damon Corp, US.

Damon Corp

115 Fourth Avenue, Needham Heights, MA 02194.
 Tel: 617 449 0800

Manages a large network of independent clinical laboratories. Manufactures laboratory instruments and carries out product engineering and development.

Dan Kar Corp

PO Box 279, Reading, MA 01867.
 Tel: 617 944 1550
 Fax: 508 658 0380/800 9425542

Products include mini and standard sized electrophoresis apparatuses (horizontal and vertical), radiation safety shields, laboratory equipment and digitized power supply.

Department of Agriculture

Agricultural Research Service
 Plant Genetics and Germplasm Institute, Beltsville, MA 20705.

Maintains a seed bank as well as carrying out research on plant breeding.

Diacrin Inc

Building 96, 13th St, Charlestown Navy Yard,
Charlestown, MA 02129.
Tel: 617 242 9100 Fax: 617 242 0070

Develop therapeutics for multiple human diseases through cellular differentiation and transplantation technologies.

Digital Equipment Corp

3 Results Way, Marlboro, MA 01752.
Tel: 508 467 5111 Fax: 508 467 5640

Produces a range of computers, microcomputers and interfaces for data acquisition and management designed for locally controlled real time input/output functions without the need to access the host computer, suited to automated laboratory uses.

Diversified Biotech

46 Marcellus Drive, Newton Centre, MA 02159.
Tel: 617 965 8557 Fax: 617 964 7620

Manufacture prestained electrophoresis standards either in the form of kits (high range or low range) or as individual standards from 3 to 200 Kdaltons. Unstained kits are also available.

Du Pont-NEN Research Products

549 Albany Street, Boston, MA 02118.
Tel: 617 482 9595/800 225 1572
Telex: 940996

Biotechnology Centre: 85 Wells Avenue, Newton Center MA 02159 Tel: 617 964 9550, Nuclear Medical & Technical Complex: 331 Treble Cove R, North Billerica MA 01862 Tel: 617 964 9531

Manufactures radioactive chemicals for research, pharmaceuticals for diagnosis and radioactive and nonradioactive products for calibration. Provides custom synthesis and tritiation services. Over 1000 radioactive chemicals available including amino acids, steroids and nucleotides labelled with ¹⁴C, ³H, ³²P and ¹²⁵I as well as radioiodination kits, scintillation fluids, tissue and gel solubilizers, radioactivity decontaminants, vials and pipettes.

DynaGen Inc

99 Erie Street, Cambridge, MA 02139.
Tel: 617 868 8050 Fax: 617 354 3902

Formerly Dynatech Scientific. Provides research, development and consulting services under contract to industry and government in areas of chemical and mechanical engineering, including electrochemical conversion of biomass feedstocks and wastes to liquid and gaseous fuels. Also offers contract services for injectable therapeutics. Produces degradable polymers, bioadhesives, diagnostics for tuberculosis and a vaccine for hepatitis-A.

EA Bioengineering

46 Joseph Rd, Framingham, MA 01701.
Tel: 508 788 9983 Fax: 508 788 9983

Offer services in custom design, development and automation of downstream processing systems including low pressure process scale chromatography.

East-Acres Biologicals

236 Blackmer Rd, PO Box 727, Southbridge, MA 01550.
Tel: 617 765 9580 Fax: 508 765 1288

Produce antibodies against cell surface markers, chemicals, cytoskeletal proteins, hormones, infectious agents, peptides, serum proteins etc. Offer services in custom immunization.

EcoScience Corp

377 Plantation Street, Worcester, MA 01605.
Tel: 508 754 0300 Fax: 508 754 1134

Developing natural pest control products utilizing naturally-occurring microorganisms including biopesticides for the control of insects, weeds and diseases of plants, fruits and vegetables.

EMCorp

Biotechnology Supplies Division
PO Box 67285, Chesnut Hill, MA 02167-0004.
Tel: 617 965 6340/800 528 5252
Telex: 6719839 Fax: 617 964 1052

Supplies computer-based confocal microscope, vibrating microtome, diamond knives and resharping service, autoradiography enhancer, spray for CAT assays, equipment, reagents and supplies for electron microscopy, video densitometry system for blots, 1D and 2D electrophoresis, DNA/RNA sequencing, and quantitative image, gel and blot analysis system for 1D and 2D gels, morphometry, enhancement and 3D reconstruction.

Endogen Inc

68 Fargo St, Boston, MA 02210.
Tel: 617 439 3250 Fax: 617 439 0355

Developing monoclonal antibodies and quantitative diagnostic assays including ELISA kits for monitoring tumour necrosis factor alpha, GM-CSF interleukin-1 alpha and interferon gamma as well as ultrapurified cytokines and monoclonal and polyclonal antibodies to cytokines.

Enprotech Corp/BEA

1 Westinghouse Plaza, Hyde Park, MA 02136.
Tel: 617 361 5700/800 433 6433
Telex: 510 601 3130 Fax: 617 361 5708

Supply a wide range of fermentation equipment, shakers, probes, computerized controllers, computer software, protein separation equipment for pilot plant or production facilities, electrophoresis equipment, DNA sequencers, electrodes, gels and associated software. Agents for B E Marubishi and Daichi Pure Chemicals, Japan and Uniequip, Germany.

Environmental Bioscience

427 Newbury St., Boston, MA 02115.
Tel: 617 267 3366 Fax: 617 267 3404

Develops microbial technology for the desulphurization of petroleum.

The Enzyme Center Inc

36 Franklin Street, Malden, MA 02148-4120.
Tel: 617 322 4885/800 343 2170
Telex: 940195

Carries out large scale fermentation to produce a wide range of enzymes for research use. Products also include adsorbing agent for antibody and antibody-complexed antigen removal from solution.

Enzytech

763D Concord Ave, Cambridge, MA 02138.
Tel: 617 661 0940

Developing protein enhancement technology. Produce enzymes and drug delivery systems.

Epigen Inc

148 Linden Street, Wellesley, MA 02181.
Tel: 617 237 9102 Fax: 617 237 7458

Developing products for monitoring, treatment and diagnosis of cancer, including an in vitro blood test for carcinoma and an anti-carcinoma vaccine.

ESA Inc

45 Wiggins Ave, Bedford, MA 01730.
Tel: 617 275 0100 Fax: 617 275 5529

Supplies analytical chromatography equipment including HPLC systems, detectors etc, as well as chemical and elemental analyzers, computer software and clinical test kits. Offer contract research.

Exalpha Corp

P.O. Box 1004, Boston, MA 02205.
Tel: 617 558 3265 Fax: 617 969 3872

Produces and distributes monoclonal antibodies to cell surface antigens of humans, monkeys and mice.

Extech Instruments

335 Bear Hill Rd, Waltham, MA 02154.
Tel: 617 890 7440 Fax: 617 890 7864

Supplies portable meters for measurement of temperature, pH, conductivity and dissolved oxygen.

The Fidells Group Inc

Cyborg Division
94 Bridge St, Newton, MA 02158.
Tel: 617 964 9020 Fax: 617 332 8819

Produce combined hardware and software systems with recorder, data logger, alarm monitoring, automatic data collection and data reduction facilities designed for use in the monitoring of processes, waste and effluent production, energy use, etc, in food, pharmaceutical and chemical industries. Also suitable for accumulation and analysis of data from repeated laboratory procedures with scans of up to 64 parameters and frequencies varying from minutes to days. Calculations include first and second derivatives, areas under curves and statistical treatments.

Filtron Technology Corp

50 Bearfoot Rd, Northborough, MA 01532.
Tel: 508 393 1800/800 FILTRON
Fax: 508 393 1874

Manufactures ultrafiltration and microfiltration membranes and related products for critical separations in the laboratory and pilot and production scale process market. Products are suited to pharmaceutical and biotechnological applications.

Fisher Scientific Co

Medical Division
113 Hartwell Ave, Lexington, MA 02173.
Tel: 617 861 0710 Fax: 617 861 1908

Supply automated and other analyzers, clinical controls, electrodes, fluorimeters and accessories, reagents for EIA etc, sera and diagnostics.

Fisons Instruments Inc

32 Commerce Center, Cherry Hill Drive, Danvers, MA 01923.
Tel: 508 524 1000 Telex: 6819094
Fax: 508 777 0678

Manufacture, sell, service and support analytical instrumentation for biotechnology including organic mass spectrometers, gas chromatographs and process monitoring.

Fitzgerald Industries International Inc

4 Courthouse Lane, Suite 2, Chelmsford, MA 01824.
Tel: 508 970 5677 Fax: 508 970 3880

Produces monoclonal and polyclonal antibodies for thyroid function, fertility and pregnancy monitoring, infectious diseases, drugs of abuse, allergies, adrenal functions, diabetes, steroids, hematology and human serum proteins. Also produces purified antigens, affinity purified antibodies,

immunoglobulins, conjugates and precursors, chromogenic substrates, enzyme-labelled antibodies.

Fluid Management Systems Inc

125 Walnut St, Watertown, MA 02172-9859.
Tel: 617 926 1521 Fax: 617 923 2168

Supply automation systems for purification processes from laboratory to production scale as well as rapid assay systems for biological and environmental monitoring.

The Foxboro Co

Bristol Park, Foxboro, MA 02034.
Tel: 617 543 8750 Fax: TWX: 710 346 7630

151 Woodward Ave, PO Box 5449, S Norwalk, CT 06856-5449.

Tel: 203 853 1616 Fax: 203 838 2731

Manufactures chromatography equipment and supplies references and standards, capillary columns, environmental air monitoring equipment, hydrocarbon-in-water analyzers, spectrophotometers and liquid chromatography detectors.

Gene-Trak Systems

31 New York Ave, Framingham, MA 01701.
Tel: 508 872 3113/800 338 8725
Fax: 508 879 6462

Joint venture between Integrated Genetics Inc and Amoco to develop a non-radioactive DNA probe using the biotin-avidin system as well as radioactive DNA probes for Salmonella and Listeria.

Genesis Pharmaceuticals Inc

840 Memorial Drive, Cambridge, MA 02139.
Tel: 617 354 8050 Fax: 617 354 4043

Supply diagnostics.

Genetics Institute Inc

87 Cambridge Park Drive, Cambridge, MA 02140-2387.
Tel: 617 876 1170 Fax: 617 876 1504

Commercial research and development company applying recombinant DNA technology to human health care and agricultural and chemical products. Activities include DNA sequencing, fermentation technology, gene expression, mammalian enzymology, gene cloning, immunology, microbial physiology, nucleic acid and protein chemistry. Has a contract for development of blood-clotting factor VIII. Developing DNA probes, fibrinolytics, nerve growth factor, interferon, interleukin-3, TPA, AIDS therapeutics, human serum albumin, granulocyte macrophage colony stimulating factor (immuno-modulator for AIDS and related diseases) and improved seed and corn varieties. Have developed a method of purification of erythropoietin and related products.

Genica Pharmaceutical Corp

Two Biotech Park, 373 Plantation St, Worcester, MA 01605.
Tel: 508 756 2886 Fax: 508 752 7421

Innovative diagnostic testing company. Develops and commercializes diagnostics and therapeutics for neuromuscular and neurological disorders. Tests currently available include a DNA detection and dystrophin protein test for muscular dystrophy metabolic myopathy profiles; GM1, MAG and sulfatide autoantibody tests for peripheral, sensorimotor and motor neuropathies and lower motor neuron disorders; Yo, CAR, Hu and Ri autoantibody tests for paraneoplastic syndromes associated with breast and gynaecological cancers and small cell lung carcinoma; retinal degeneration associated with cancer; Myastheria gravis/Eaton Lambert syndromes testing; Lyme antibody capture assay.

Gensym Corp

125 Cambridge Park Dr., Cambridge, MA 02140.
Tel: 617 547 2500 Fax: 617 547 1962

Produces real-time expert system software for the biotechnological applications including diagnostics, clinical tests, pharmaceuticals and environmental and energy management.

Gentest Corporation

6 Henshaw Street, Woburn, MA 01801.
Tel: 617 935 5115 Fax: 617 938 8644

Carrying out research on effects of mutagens on specific cell lines and developing improved methods for the detection of mutagen effects of industrial chemicals. Marketing human cell lines engineered to express human cytochrome P450 enzymes as well as cytochrome P450 enzyme preparations.

Genzyme Corp

One Kendall Square, Cambridge, MA 02139.
Tel: 617 252 7500/800 332 1042
Fax: 617 252 7600

Develops and markets therapeutic and diagnostic products and genetic diagnostic services. Also develops processes for manufacturing pharmaceuticals and fine chemicals and for making therapeutic human proteins in the milk of transgenic animals.

Genzyme Transgenics Corp

One Mountain Rd, Framingham, MA 01701-9322.
Tel: 508 728 4000 Fax: 508 872 9080

Subsidiary of Genzyme Corp specializing in protein expression using transgenic technology by inserting a human gene controlled by proprietary milk protein promoter sequences into mammalian embryos using micromanipulation techniques. The resultant transgenic animals, upon lactation, secrete human protein into their milk from which protein is purified.

Harris Manufacturing Co

Puffer-Hubbard Division

PO Box 38, N Billerica, MA 01862.
Tel: 800 221 4201 Fax: 704 645 3368

Manufacture cryogenic equipment, freezers and refrigerators, chromatography columns and temperature controllers.

Harvard Apparatus Inc

22 Pleasant St., South Natick, MA 01760.
Tel: 508 655 7000 Fax: 508 655 6029

Specialist manufacturers of microprocessor-controlled infusion and peristaltic pumps and microdialysis products.

Hemagen Diagnostics Inc

34-40 Bear Hill Rd, Waltham, MA 02154.
Tel: 617 890 3766/800 722 2730
Fax: 617 890 3748

Supplies a range of diagnostic kits for screening and semi-quantitation of auto-antibodies associated with connective tissue disorders. The assays are available in ELISA and haemagglutination formats, including kits for: RNP/Sm, SS-A (Ro) - SS-B (La), Scl-70, Jo-1, DNA, RF, Serum Amyloid A, C-Reactive protein and Anticardiolipin.

HNU Systems Inc

160 Charlemont St, Newton, MA 02161-9987.
Tel: 617 964 6690 Fax: 617 558 0056

Supply laboratory equipment including gas chromatographs, chromatography detectors and ion specific electrodes.

Hybridon Inc

373 Plantation St, Worcester, MA 01650.
Tel: 508 752 7000

Develops therapeutics for HIV and influenza.

Hybrivet Systems Inc

P.O. Box 1210, Framingham, MA 01701.
Tel: 508 651 7881 Fax: 508 651 8837

Develop diagnostics for detection of environmental contaminants and for pesticides, drugs and pathogens in food. Produce Lead Check (TM), a versatile, presumptive test for lead.

Hygeia Sciences

330 Nevada St, Newton, MA 02160-1432.
Tel: 617 964 0200 Telex: 920407

Using hybridoma techniques for the development of monoclonal antibodies for diagnostics. Products include ovulation and pregnancy test kits. Subsidiary of Tambrands Inc, US.

Immologic Pharmaceutical Corp

One Kendall Sq., Bldg. 600, Cambridge, MA 02139.
Tel: 617 494 0060 Fax: 617 494 4964

Produces therapeutics for allergic and autoimmune diseases, including AIDS.

Immunetics

380 Green St, Cambridge, MA 02139.
Tel: 617 492 5416/800 227 4765
Fax: 617 868 7879

Develop and market Western blot technology for both research and clinical diagnostics. Products include a miniblott system used in AIDS testing and serological assays, and a confirmatory diagnostic test for Lyme Disease.

Immunogen Inc

60 Hamilton St, Cambridge, MA 02139.
Tel: 617 661 9312 Fax: 617 661 9334

Developing conjugated antibodies for therapeutic and diagnostic use in cancer treatment. Working with Sidney Faber Cancer Research Institute, US. Two initial products are in clinical trials at the Dana-Farber Cancer Institute for the treatment of the most common forms of lymphoma and leukemia.

Immunotech Corp

90 Windom Street, PO Box 860, Allston, MA 02134.
Tel: 617 787 1010/800 343 0555
Telex: 948179 Fax: 617 787 0315

Supplies medical diagnostics and immunodiagnostic test kits based on enzyme immunoassay methods. Offers custom conjugation to enzymes and proteins.

Ingold Electrodes Inc

261 Ballardvale St, Wilmington, MA 01887.
Tel: 508 658 7615/800 352 8763
Fax: 508 658 6973

Manufactures pH and dissolved oxygen sensors, retractable and stationary housings, ion specific electrodes and pH and dissolved oxygen transmitters.

Institute of Molecular Biology Inc

812 Huntington Ave., Boston, MA 02115-6202.
Tel: 617 738 4512 Fax: 617 730 8476

Produce therapeutics for wound healing and bone regeneration, platelet growth factor and insulin growth factor-1 for periodontal disease. Formerly Epoulon, Inc.

Instrumentation Laboratory Inc

113 Hartwell Avenue, Lexington, MA 02173.
Tel: 800 225 4040 Telex: 923440

Developing and marketing medical diagnostics. Part of Allied Corp, US.

Integra Biosciences Inc

Woburn, MA 01801.
Tel: 800 886 8675/ 617 937 8300
Fax: 617 937 8301

Produce portable bunsen burners, cell culture rollers and spinners, a cost-effective DNA sequencer and a bench-top system for the in vitro cultivation and isolation of cell products.

Integrated Chemical Sensors Corp

44 Mechanics St, Newton, MA 02164.
Tel: 617 965 6950

Developing diagnostics which combine the use of piezoelectric crystals with the specificity of monoclonal antibodies. Reaction between the sensor and the target molecule results in a change in the frequency at which the crystal vibrates under the influence of an electric current enabling the sensor to be used in screening for specific proteins or in clinical tests, in environmental monitoring or process control.

Integrated Genetics Inc

31 New York Avenue, Framingham, MA 01701.
Tel: 508 875 1336

Research and development company interested in the application of recombinant DNA technology to medical, agricultural and chemical fields. Has a joint venture with Serono SpA, Italy. Offers a clinical service in the use of radioisotope DNA probes for cystic fibrosis, polycystic kidney disease, sickle cell anaemia, thalassemia, haemophilia B and retinoblastoma. Maintains a genetic disease reference library. Developing a radioisotope DNA probe for Salmonella and a non-isotopic DNA probe for Campylobacter. Has produced a vector encoding hepatitis B surface antigen, diagnostics for food toxins, cancer and AIDS, TPA, human chorionic gonadotrophin and erythropoietin. About to merge with Genzyme, US.

Integrated Separation Systems

21 Strathmore Road, Natick, MA 01760.
Tel: 508 655 1500/ 800 433 6433
Fax: 508 655 8501

Supplies products related to electrophoresis, 2-D electrophoresis and western blotting specializing in pre-cast gradient poly-acrylamide gels (Sepragels) with reproducible characteristics which are available in a number of different gradients for separation of protein of various types and sizes.

International Biotechnology Laboratories Inc

67 Rogers St, Cambridge, MA 02142.
Tel: 617 868 0077 Fax: 617 661 6341

Produces monoclonal antibodies, recombinant EBV peptides, caseins, whey protein concentrates and milk-derived compounds.

International Equipment Company

IEC
300 Second Avenue, Needham Heights, MA 02194.
Tel: 617 449 8060 / 800 843 1113
Fax: 617 444 6743

Manufactures a wide range of laboratory centrifuges including ventilated and refrigerated systems as well as bench-top, under-counter and floor model types. Also supplies a full range of rotors, adaptors and other accessories.

InterTech Ventures Ltd

70 Walnut St, Wellesley, MA 02181.
Tel: 617 239 8251 Fax: 508 877 9114

Offer biotechnology and medical consultancy in financing, investment, licensing and marketing internationally. Services include: monitoring commercially valuable technologies; due diligence and location of potential partners; technology marketing and negotiation of collaboration agreements; development of licensing or business plans for start-up ventures.

Ionics Inc

65 Grove St, Watertown, MA 02172.
Tel: 617 926 2500

Produces electro dialysis systems for simultaneous desalting and concentration of protein solutions, Karl Fisher titrators, automatic titrators, electrofocusing apparatus etc.

Intracel Corporation

359 Allston St, Cambridge, MA 02139.
Tel: 617 547 5535/800 542 2281
Fax: 617 491 9015

1850 NW 69th Ave, Suite 3, Plantation, FL 33313.
Tel: 305 792 4786

Supply cell and tissue culture media. Offer custom services in molecular biology and immunology including hybridoma and monoclonal antibody production, cDNA and genomic library construction and screening, DNA sequencing and synthesis. Products include recombinant proteins, peptides, polyclonal and monoclonal antibodies and capture ELISA kits.

Jackson Laboratory

600 Main St, PO Box 258, Bar Harbor, MA 04609-0800.
Tel: 207 288 5845

Carrying out studies on activity of the Rous sarcoma virus by means of infection of cultured mouse cells to characterize mechanisms of transfection and effects of proviral sequences on transcription of flanking cellular genes.

Jeol USA Inc

11 Dearborn Road, Peabody, MA 01960.
Tel: 617 535 5900

Supplies electron microscopes and nuclear magnetic resonance spectrophotometers.

Koch Membrane Systems Inc

850 Main St, Wilmington, MA 01887.
Tel: 508 657 4250/800 343 0499
Fax: 508 657 7349

Manufactures ultrafiltration and microfiltration modules, including spiral, hollow fibre and tubular types in a range of molecular weight cut-offs and sizes, for use in systems to concentrate and/or purify enzymes, vaccines, vitamins, hormones, plasma, antibiotics, dextrose, gelatin and water. Systems are available from bench top units to production scale.

Laboratory Devices Inc

PO Box 6402, Holliston, MA 01746.
Tel: 508 429 1716 Fax: 508 429 6583

Supply constant temperature baths.

Labsystems Inc

33 Boston Post Rd, Marlboro, MA 01752.
Tel: 508 481 6800/800 LAB-PROD
Fax: 508 480 9999

Develop, manufacture and market products in the areas of liquid handling, diagnostics and instrumentation. Products include pipetting systems, 96-well microplates and precision laboratory consumables. Provide custom design and manufacturing services to the biotechnology industry. Manufacture disposable plasticware including cuvettes for spectrophotometry, fluorometry and nephelometry with 70% transmission at 340nm, centrifuge tubes, test tubes and pipette tips, as well as sample cups for automated chemistry equipment. Subsidiary of Labsystems, Finland.

Laser Science Inc

26 Lansdowne St, Cambridge, MA 02139.
Tel: 617 225 2929/800 447 1020
Fax: 617 225 0535

Produce nitrogen and tunable dye laser systems for fluorescence microscopy and microirradiation.

LC Services Corp

165 New Boston St, Woburn, MA 01801.
Tel: 617 938 1700 Fax: 617 938 5420

Supplier of reagents and biochemicals including enzyme inhibitors and activators.

Leeman Labs Inc

55 Technology Drive, Lowell, MA 01851.
Tel: 508 454 4442 Telex: 324509
Fax: 508 452 7429

Manufactures a high-precision, completely automated elemental analyzer for carbon, hydrogen, nitrogen, oxygen and sulphur.

Luft Instruments Inc

3 Hillside Rd, PO Box 214, Lincoln, MA 01773.
Tel: 617 259 9215 Fax: 617 259 9215

Supplies pH and process controllers, automatic titrators and liquid metering pumps.

Macrochem Corp

110 Hartwell Ave, Lexington, MA 02173.
Tel: 617 862 4003 Fax: 617 862 4338

Produces transdermal drug delivery systems and other therapeutic products.

Malvern Instruments Inc

10 Southville Road, Southborough, MA 01772.
Tel: 508 480 0200 Fax: 508 460 9692

Manufacture particle size analyzers including laser analyzers capable of measuring particles or droplets in the range 0.003-1800 microns. The PCS product line will measure zeta potential and sub-micron particle sizes of lipids, liposomes and proteins.

Massachusetts Biotechnology Research Institute

Three Biotech Park, One Innovation Drive, Worcester, MA 01605.
Tel: 508 797 4200 Fax: 508 799 4039

Independent non-profit corporation which provides scientific and business support to the biotechnology industry in Massachusetts, improves bioscience education and training as well as facilitating technology transfer particularly in the areas of diagnostics, therapeutics, agriculture, animal health and toxic waste treatment.

Massachusetts Institute of Technology

Department of Nutrition & Food Science

Cambridge.

Studying production of chemicals by fermentation of cellulosic material by anaerobic and thermophilic organisms including clostridia for ethanol and butanol.

Massachusetts Institute of Technology

Department of Biology & Cell Culture Center

77 Massachusetts Avenue, Cambridge, MA 02139.

Tel: 617 253 6430

Researching into molecular genetics of eukaryotes and prokaryotes using plasmids and bacteriophage. Also studying RNA initiation and processing in adenovirus and murine leukaemia virus oncogenesis.

Massachusetts Institute of Technology

Department of Microbiology

Cambridge.

Constructing chromosome maps of *Bacillus thuringiensis*. Carrying out identification of sporulation and crystal-forming genes with assessment of the role of phage in crystal formation.

Massachusetts Institute of Technology

Biotechnology Process Engineering Center

18 Vassar St, Building 20A-207, Cambridge, MA 02139.

Tel: 617 253 2126/2504 Fax: 617 253 2400

The Center takes an innovative, cross-disciplinary approach to the multidisciplines of biotechnology, integrating the life sciences and bioprocess engineering with the goal of producing advanced manufacturing technologies. Joint research projects with industry involve engineering and scientific principles in therapeutic protein production and purification.

Matritech Inc

763 Concord Ave, Cambridge, MA 02138.

Tel: 617 661 6660 Fax: 617 661 8522

Developing cancer diagnostics using patented nuclear matrix protein technology. Planning to submit to the FDA a urine-based assay for bladder cancer in 1994. Additional products will include serum assays for colon, breast and lung cancer and an antibody-based improvement for the cervical Pap smear. The company also manufactures and markets cell death, apoptosis and oncology research kits.

Matrix Technologies

44 Stedman St, Lowell, MA 01851.

Manufacture programmable sample processors with optional on-board washing and shaking units.

Mattek Corp

200 Homer Ave, Ashland, MA 01721.

Tel: 508 881 6771 Fax: 508 879 1532

Manufactures and markets human-derived cell and tissue based dermal and ocular models for research and toxicology applications.

McPherson Division of S I Corp

530 Main St, Acton, MA 01720.

Tel: 508 263 7733/800 255 1055

Fax: 508 263 1458

Supply equipment for, HPLC fluorescence, bioluminescence and chemiluminescence, chromatography, electrophoresis and spectrophotometry.

Med-Chem Products Inc

444 Washington St., Woburn, MA 01801.

Tel: 617 938 9328 Fax: 617 933 0178

Produces diagnostics for veterinary use and hyaluronic acid.

MediSense Inc

128 Sidney St, Cambridge, MA 02139-4239.

Tel: 617 492 2373 Telex: 951131

Fax: 617 576 6560

Manufactures and sells a blood glucose monitoring system for diabetic blood glucose management. Carrying out research and development of advanced biosensors and diagnostics in the US and UK.

Memtek Corp

28 Cook St, Billerica, MA 01821.

Tel: 508 667 1731 Fax: 508 667 1731

Manufacture a reverse osmosis water recycling system.

Micro Video Instruments Inc

PO Box 518, 11 Robbie Rd, Avon, MA 02322.

Tel: 508 580 0080 Fax: 508 580 8623

Offers customized microscope service and accessories including illuminators.

Microcal Inc

22 Industrial Drive East, Northampton, MA 01060.

Tel: 413 586 7720 Fax: 413 586 0149

Supplies fully automated ultrasensitive isothermal titration and differential scanning calorimeters.

Microfluidics Corp

90 Oak St, PO Box 9101, Newton, MA 02164-9101.

Tel: 617 969 5452/800 370 5452

Fax: 617 965 1213

Manufactures and markets disruption and homogenization equipment. Subsidiary of Biotechnology Development Corp, US.

Micron Separations Inc

135 Flanders Road, PO Box 1046, Westboro, MA 01581.

Tel: 508 366 8212/800 444 8212

Fax: 508 366 5840

Manufactures nylon, PVDF, nitrocellulose and cellulose acetate membranes and filters in pore sizes from 0.1 to 20.0 microns, with applications in the biotechnology membrane, diagnostic media, microfiltration and process markets. Incorporate these filter membranes in a broad range of devices and filter units.

Middlesex Sciences Inc

100 Foxborough Blvd, Suite 220, Foxborough, MA 02053.

Produce antibody purification kits for recovery of IgG antibodies from polyclonal sera.

MilliGen/Biosearch

Division of Millipore Inc

186 Middlesex Turnpike, Burlington, MA 01803.

Tel: 617 229 2870/800 872 0071

Fax: 617 229 2459

Established to develop and produce instrumentation, reagents and control systems for the synthesis and sequencing of biomolecules. Products include small and large scale DNA and RNA synthesizers, covalent protein sequencers and automated peptide synthesizer systems, incorporating continuous flow instruments, and reagents. Currently developing multiplex DNA sequencing technology.

Millipore Corp

80 Ashby Road, PO Box 225, Bedford, MA 01730.

Tel: 617 275 9200/800 225 1380

Fax: 617 275 5550

PO Box 9162, Marlborough, MA 01752-9747

Supplies a wide range of membranes and filtration equipment, including the CX ultrafilter for concentration, desalting and dialysis of macromolecular solution of 1 to 100 ml without shearing or polarization and without sample loss; available in 10,000 and 30,000 molecular weight cut-offs. Also supplies a range of defined porosity filters, microbial filters, water treatment systems etc, peptide and DNA synthesizers and analyzers, enzymes, diagnostic kits and electrophoresis equipment. Produces equipment for liquid chromatography through its subsidiary Waters Associates Inc, US.

MKS

Six Shattuck Rd, Andover, MA 01810.

Tel: 508 975 2350/800 227 8766

Fax: 508 975 0093

Manufacture closed-loop process air, oxygen, nitrogen and carbon dioxide flow control products for fermentation and cell culture systems.

Neozyme

1 Kendall Sq., Bldg. 1400, 5th floor, Cambridge,

MA 02139.

Tel: 617 252 7500

Produces TSH, diagnostics for cholesterol, therapeutics delivery lipids, therapeutics for severe burns and cystic fibrosis, and technology for the isolation of fetal cells from maternal blood.

The Nest Group

45 Valley Road, Southboro, MA 01772.

Tel: 508 481 6223/800 347 6378

Fax: 508 485 5736

Supply high performance liquid chromatography columns, narrow bore to preparative scale, for the separation and scale-up of proteins, peptides and nucleic acids.

NET MidAtlantic Inc

Cambridge Division

12 Oak Park, Bedford, MA 01730.

Tel: 617 275 3535

Produces bacterial nutrient formulations, microbial cultures and fermentation equipment for trichloroethylene degradation and a biofilter for the removal of gaseous contaminants.

New England Biolabs Inc

32 Tozer Road, Beverly, MA 01915.

Tel: 508 927 5054/800 632 5227 (NEB LABS)

Fax: 508 921 1350

Email: info@neb.com.

Has over 150 different restriction endonucleases available, many in recombinant form. Also offers ligases, polynucleotide kinase, polymerases, nucleases, methylases, DNA sequencing vectors, DNA labelling systems, chemiluminescent DNA detection systems, DNA molecular weight standards, linkers, adapters, primers, reagents for mRNA isolation and genomic research products, kits for protein fusion, purification and thermal cycle DNA sequencing, protein modification reagents and protein molecular weight markers (prestained and unstained).

New England Immunology Associates

53 Smith Place, Cambridge, MA 02138.
Tel: 617 661 1117

Offer custom services in antiserum production as well as in the preparation of antibodies conjugated with enzymes or fluorochromes.

Nova Biomedical Corp

200 Prospect St, PO Box 9141, Waltham, MA 02254-9141.
Tel: 617 894 0800/800 458 5813
Telex: 200127 nova Fax: 617 894 5915

Manufactures ISE/biosensors for diagnostic instrumentation, including automated blood gas, electrolyte, haematology and chemistry analyzers for hospital laboratories. Also develops and manufactures custom ISE/biosensor based products, subsystems, special purpose biosensors, reagents, controls and standards.

Oculon Corp

26 Lansdowne St, Cambridge, MA 02139.
Tel: 617 621 3141 Fax: 617 621 1434

Developing ophthalmic pharmaceuticals for the diagnosis and treatment of cataracts as well as instruments for diagnosing lens opacity.

Omega Specialty Instrument Co

4 Kidder Rd, Unit 5, Chelmsford, MA 01824.
Tel: 508 256 5450 Fax: 508 256 8015

Produce surface active micro titre plastic plates. Developing genetically produced alkaline phosphatase.

OmniGene Inc

763 D Concord Ave, Cambridge, MA 02138.
Tel: 617 576 1966 Fax: 617 547 9256

Founded in 1991, the company acquired the diagnostic and bioproducts business and research activities of BioTechnica International. Its major focus is on DNA manipulation technologies: cloning, engineering and expressing genes. Products include DNA probe based tests for periodontal disease. Bioproducts are based on four host organisms: *Bacillus subtilis*, *Streptomyces lividans*, *Escherichia coli* and *Saccharomyces cerevisiae*.

Oncolab Inc

36 The Fenway, Boston, MA 02215.
Tel: 617 536 0850

Developing cancer diagnostics, therapeutics and vaccines. Subsidiary of Brain Research Inc.

OraVax Inc

Cambridge, MA.

Developing oral vaccines based on immunogenic virus particles. Owns Oxford Virology, which held the original patents to the virus particle technology.

Organogenesis Inc

150 Dan Rd, Canton, MA 02021.
Tel: 617 575 0775 Fax: 617 575 0440

Provide living human tissue and organ constructs for toxicology testing and dermatological research.

Orion Research Inc

The Schraft Center, 529 Main St, Boston, MA 02129.
Tel: 617 242 3900 Telex: 4430019
Fax: 617 242 7885

Manufacture a wide range of pH and ion-selective electrodes (ISEs) and meters; dissolved oxygen and conductivity meters and probes; infusion withdrawal pumps; micro, ultra-micro and semi-micro balances.

Owl Scientific Plastics Inc

PO Box 566, Cambridge, MA 02139.
Tel: 617 242 9748 Fax: 617 241 5609

Designs and manufactures bioresearch products including electrophoresis systems, DNA sequence electroblotter, thermal cyclers, gel drying systems and laboratory radiation safety equipment. Also offers custom manufacturing services.

Oxford Instruments North America Inc

3A Alfred Circle, Bedford, MA 01730.
Tel: 617 275 4350 Telex: 230 951 352

Manufacture cryogenic systems including cryogenic containers, refrigerators, thermometers, valves, magnets and cryostats.

PAREXEL International Corp

195 West St, Waltham, MA 02154.
Tel: 617 487 9900 Fax: 617 487 0525

Specializing in the design and management of clinical research Phases I-IV including regulatory and biostatistical services to support development of pharmaceutical, biotechnology, medical device and diagnostic products worldwide. Develop Registration Strategies and Clinical Operating Plans, reviewing and compiling regulatory documents, and supporting quality assurance through SOP writing and GCP, GLP and GMP auditing.

PerSeptive Biosystems Inc

38 Sidney St, Cambridge, MA 02139.
Tel: 617 621 1787/800 899 5858
Fax: 617 621 2575

Develop and market bioseparations equipment and instrumentation including chromatography perfusion columns, media and instrumentation as well as immunodetection systems and instrumentation.

Polyfiltronics Inc

100 Weymouth St, Rockland, MA 02370-1136.
Tel: 617 878 1133 Fax: 617 878 0822

Produces membrane 96-well filter bottom microplates, specialized collection plates for scanning, UF and GF plates for drug screening and receptor studies, filter cups, dipsticks and other diagnostic disposables.

Polymer Laboratories Inc

Separation Sciences Division
Amherst Fields Research Park, 160 Old Farm Rd, Amherst, MA 01002.
Tel: 413 253 9554 Fax: 413 253 2476

Supply high performance polymeric media and chromatography columns for reverse phase, ion exchange and gel filtration suitable for protein and peptide purification and specialist detectors featuring evaporative mass and chiral detectors.

Precision Systems Inc

16 Tech Circle, Natick, MA 01760.
Tel: 508 655 7010 Fax: 508 653 6999

Supply automated and other analyzers and osmometers.

Procept Inc

840 Memorial Drive, Cambridge, MA 02139.
Tel: 617 491 1100 Fax: 617 491 9019

Carrying out R&D in the area of human immune cell receptors and growth modifiers for the production of novel therapeutics for the treatment of immune system diseases. Using rational drug design to develop small, orally active drugs for treatment of autoimmune disease, AIDS, organ transplant rejection and allergies.

Protein Engineering Corp (PEC)

765 Concord Ave, Cambridge, MA 02138.
Tel: 617 868 0868 Fax: 617 868 0898

Developing phage display methods for the engineering of proprietary proteins for pharmaceutical applications, particularly the treatment of respiratory disorders including hypersecretion resulting from bronchitis and cystic fibrosis. Patents are pending on a range of engineered enzyme inhibitors, including inhibitors of serine proteases and neutrophil elastase.

Rainin Instrument Co Inc

Mack Road, Box 4026, Woburn, MA 01888-4026.
Tel: 617 935 3050/800 4 RAININ/800 FOR HPLC
Fax: 617 938 8157

5400 Hollis St, Emeryville, CA 94608-2508.
Tel: 510 654 9142 Fax: 510 652 8876

Manufacture and distribute hand-operated microlitre pipettes and disposables including motorized battery-operated pipettes, affinity, ion exchange and HPLC equipment and supplies.

Remediation Technologies Inc

9 Pond Lane, Concord, MA 01742.
Tel: 508 371 1422 Fax: 508 369 9279

7011 North Chaparral Ave, Tucson, AZ 85718.
Tel: 602 577 8323 Fax: 602 577 7455

Undertake on site remediation of toxic organic wastes.

Repligen Corp

One Kendall Square, Building 700, Cambridge, MA 02139.
Tel: 617 225 6000/800 622 2259
Telex: 881987 Fax: 617 494 1786

Research and development company working on recombinant DNA technology, enzymology and monoclonal antibodies. Developing animal and health-care products including AIDS vaccine, enzymes and proteins, as well as protein A in association with Applied Immune Science, US. Have produced recombinant AIDS virus protein for research use. Also have interest in pesticides.

Repligen Sandoz Research Corp

128 Spring St, Lexington, MA 02173.
Tel: 617 861 3816 Fax: 617 861 9241

Joint venture set up to develop Bt insect pest control products and enzymatic lignin degradation processes for the pulp industry.

Research Biochemicals International

One Strathmore Rd, Natick, MA 01760.
 Tel: 508 651 8151/800 736 3690
 Telex: 510 601 5087 Fax: 508 655 1359

Manufacturer and supplier of pharmacologically active compounds including adrenergics, benzodiazepines, cholinergics, dopaminergics, enzyme inhibitors, excitatory amino acids, GABA-ergics, histaminergics, ion channel modulators, protein kinase inhibitors, neurotoxins, opioids and serotonergics as well as compounds active at the cocaine, PCP and sigma receptors, HPLC reference standards and USP grade drugs. A rodent anaesthetic (thiobutabarbital) and a cloned D3-Dopamine receptor are new additions.

Rohm Tech Inc

195 Canal St, Malden, MA 02148.
 Tel: 617 321 6984 Telex: 200721
 Fax: 617 322 0358

Supply columns, packings and supports for ion and affinity chromatography (see Rohm Pharma, Germany).

Romicon Inc

100 Cummings Park, Woburn, MA 01801.
 Tel: 617 935 7840/800 356 4031
 Telex: 949333 Fax: 617 935 7183

Manufacture equipment and membranes for filtration including large diameter hollow fibre membranes in a variety of different molecular weight cut-offs and polymers suitable for use with solutions of high viscosity or high solids content.

Rowley Biochemical Institute

Route 1, Rowley, MA 01969.
 Tel: 617 948 2067 Fax: 508 948 2206

Specializes in the supply of dyes, stains and auxiliary reagents for histology, pathology, haematology and microbiology.

Safer Inc

189 Wells Ave, Newton, MA 02159.
 Tel: 800 423 7544

Supply biological control agents based on natural plant and animal oils.

Scanalytics/CSPI

40 Linnell Circle, Billerica, MA 01821.
 Tel: 617 272 6020 Fax: 508 663 0150

Produce an image analysis system for interpretation of gel electrophoretograms including a comprehensive software package.

Sepracor Inc

33 Locke Drive, Marlborough, MA 01752-1146.
 Tel: 508 481 6700/800 752 5277
 Telex: 510 601 6953 Fax: 508 481 7683

The Bioprocessing Division develops, manufactures and markets chromatography- and membrane- based media and systems for downstream processing. Products include microfiltration membranes and systems for cell/protein separations; affinity membranes and systems for antibody purification; and large scale chromatography media and systems for protein purification. Recently introduced a new separation mode called hyperdiffusion chromatography for high speed methods development and improved productivity for scale-up.

Seragen Inc

97 South St, Hopkinton, MA 01748.
 Tel: 508 435 2331 Fax: 508 435 9805

Develops and manufactures a new class of pharmaceutical products, known as fusion toxins, for the treatment of a wide variety of autoimmune diseases, cancers, and AIDS/HIV infection. Currently testing its products in clinical trials.

Serono Laboratories Inc

100 Longwater Circle, Norwell, MA 02061.
 Tel: 617 982 9000 Fax: 617 871 6754

Manufacture diagnostic test kits based on the use of monoclonal antibodies using magnetic immunoassay, diagnostics and therapeutics for fertility (including natural products), growth and human growth hormone as well as immunological products and vaccines. Part of the Ares-Serono Group, US.

Shimadzu Scientific Instruments Inc

7102 Riverwood Drive, Columbia, MA 21046.
 Tel: 410 381 1227 Telex: 087959
 Fax: 410 381 1222

Manufacture a wide range of analytical instruments including UV/visible/near infra-red and fluorescence spectrophotometers, scanning densitometers, atomic absorption systems, a complete range of gas, liquid and thin layer chromatographs, analytical, semi-prep and prep HPLC, balances, integrators and particle analyzers.

T Cell Diagnostics Inc

38 Sidney St, Cambridge, MA 02139.
 Tel: 617 621 1400/800 624 4021
 Telex: 910 240 1560 Fax: 617 621 1420

Develop and manufacture products used by the medical research community in the study of autoimmune diseases, AIDS, transplant rejection and certain cancers, and by the diagnostic community to measure response to hairy cell leukemia therapy and to monitor renal disease and rheumatoid arthritis.

T Cell Sciences Inc

38 Sidney St, Cambridge, MA 02139.
 Tel: 617 621 1400/800 624 4021
 Telex: 910 240 1560 Fax: 617 621 3589

Utilizing proprietary T cell receptor and complement receptor technology to develop pharmaceutical products to treat heart disease, inflammatory diseases, autoimmune diseases and certain cancers.

TASC

55 Walkers Brook Dr, Reading, MA 01867.
 Tel: 617 942 2000 Fax: 617 942 7100

Developing protein classification and advanced imaging techniques.

Technical Evaluations

430 Marrett Rd, Lexington, MA 02173.
 Tel: 617 862 0890 Telex: 650 284 4338 mci
 Fax: 617 862 2027

Technical management consultants in design, development and evaluation of immunodiagnosics, therapeutic products and biosensors.

Therion Biologics Corp

76 Rogers St, Cambridge, MA 02142.
 Tel: 617 876 7779 Fax: 617 876 9391

Engaged in the development of vaccines and immunotherapeutics for the prevention and treatment of AIDS, other viral diseases and certain cancers. Employs genetic engineering techniques on poxviruses to develop both live poxvirus vaccine to stimulate immune response to HIV and non-living virus-like particle vaccines containing proteins of the live pathogenic virus to enhance immune protection.

ThermedeTec Inc

470 Wildwood St, PO Box 2999, Woburn, MA 01888-1799.
 Tel: 617 938 7050 Telex: 755764
 Fax: 617 933 4476

Supply analyzers for detection of nitrosamines, amines, ethyl carbamate, explosives, nitroso amino acids, nitroso ureas and nitrosamides.

Thermo Jarrell Ash Corp

PO Box 9101, Franklin, MA 02038.
 Tel: 508 520 1880 Telex: 174230
 Fax: 508 520 1732

Manufacture advanced furnace/flame atomic absorption spectrometers.

3i Ventures Corp

99 High St, Suite 1530, Boston, MA 02110.
 Tel: 617 542 8560 Fax: 617 542 0394

3000 Sand Hill Rd, Bldg 3, Suite 105, Menlo Park, CA 94025

International venture capital firm with investments in biotechnology-related companies. Also invests in start-up and early stage companies in computer hardware, software and services for industrial automation. Biotechnology and healthcare investments include Albion Instruments, Amylin, Autoimmune, Biomagnetic Technologies, Biopure, Biosys, Gensia Pharmaceuticals, IDEC, Membrex, Neomorphics, PerSeptive Biosystems, Targetech and Viagene, Applied bioTechnology, Adeza Biomedical, Applied Virology.

Toxikon Corp

225 Wildwood Avenue, Woburn, MA 01801.
 Tel: 617 933 6903/800 458 4141
 Fax: 617 933 9196

Multidisciplinary laboratory with comprehensive capabilities in all aspects of toxicology testing. The AAALAC accredited facilities are registered with FDA, EPA and USDA.

Transformation Research Inc

155 N Beacon St, Brighton, MA 02135.
 Tel: 617 783 4124

Carrying out research on antibodies and growth factors.

Transkaryotic Therapies Inc

195 Albany St, Cambridge, MA 02139.
 Tel: 617 349 0200 Fax: 617 491 7903

Developing factors, human growth hormone, erythropoietin, insulin, LDL receptors and gene therapy systems.

Part II Michigan — MI UNITED STATES OF AMERICA

Tropix Inc

47 Wiggins Ave, Bedford, MA 01730.
Tel: 617 271 0045/800 542 2369
Fax: 617 275 8581

Developer of chemiluminescent detection products for Southern, Northern and Western blotting, DNA sequencing, ELISA and beta-galactosidase reporter gene assays.

TSI Corp

Innovation Drive, Worcester, MA 01605.
Tel: 508 755 0550 Fax: 508 754 3519

Developing animal models of human diseases. Performs toxicological evaluation and efficacy testing of new biologics, drugs, chemicals and devices serving clients in the pharmaceutical, biotechnology, chemical and medical device industries, as well as the government.

United States Department of Agriculture

Plant Physiology Institute

Beltsville.

Studies aimed at improving biological nitrogen fixation in forage legumes and in grasses include genetics, lectins and binding proteins in Rhizobium strains and assessment of nitrogen fixation in associative fixation between Spirillum and corn or sorghum. Developing cell and tissue culture methods and establishing conditions for embryogenesis in cells of crop plants. Also studying plant viruses: pathology, biochemistry and host-vector relationships.

Vaponics

An Osmotics Company

20 Reservoir Park Drive, Rockland, MA 02370.
Tel: 617 982 9900/ 800 343 2226
Fax: 617 982 7108

Manufactures high quality ultrapure water equipment for laboratory and industrial markets. Product technologies include distillation, pure steam generation, ion exchange, ultrafiltration, reverse osmosis and ozonation.

Vertex Pharmaceuticals Inc

40 Allston St, Cambridge, MA 02139.
Tel: 617 576 3111 Fax: 617 576 2109

A drug discovery and development company with programs in hemoglobin disorders, HIV, Multi-drug resistance in cancer chemotherapy, inflammation, autoimmune diseases and hepatitis C. Uses structure-based rational drug design to discover drugs.

Vestec Corp/PerSeptive Bio Systems

38 Sidney St, Cambridge, MA 02139.
Tel: 617 621 1787 Fax: 617 621 6973

Supplies matrix assisted Laser Desorption Time-Of-Flight Mass Spectrometers for analyses on sub-picomolar quantities of peptides, proteins, oligonucleotides and other biological polymers present in complex biological samples as well as a dedicated electrospray system for coupling microbore LC and CZE separation techniques providing accurate molecular weight determination, fragmentation and peptide sequence information.

Vicam Inc

211 Corporation Way, Medford, MA 02155.
Tel: 617 396 1026

Supply food diagnostics including a test for aflatoxin.

Vio-medics

Massachusetts Biotechnology Park, 365 Plantation St, Worcester, MA 01605.
Tel: 617 791 8934

Supply fluorescent labeled products including avidin, streptavidin, protein A and secondary antibodies as well as a range of low molecular weight fluorochromes.

Waters Corporation

34 Maple St, Milford, MA 01757.
Tel: 508 478 2000/800 252 HPLC
Telex: 948413 Fax: 508 872 1990

Develops, manufactures and markets a wide range of HPLC instruments, accessories, prepacked columns and other related supplies. In particular, modular instruments allow for flexibility in operating conditions, detection systems, data recording, logging and processing. Has pioneered development of prepacked columns for separation of sugars and oligosaccharides, peptides, proteins, nucleotides, nucleic acids, pharmaceuticals and various food flavourings and additives, as well as a scanning fluorescence detector.

Watson-Marlow Inc

220 Ballardvale St, Wilmington, MA 01887.
Tel: 508 658 6168/800 282 8823
Fax: 508 658 0041

Products include peristaltic pumps and tubing for use in dispensing and dosing systems. Subsidiary of Spirax-Sarco, US.

Woods Hole Oceanographic Institution

Woods Hole.
Tel: 617 548 1400 Telex: 951679

Developing methods for growing seaweeds as a biomass source for fuel production by anaerobic digestion as well as for the production of gums, other polysaccharides, animal feed and fertilizer.

Worcester Polytechnic Institute

Department of Biology and Biotechnology
Institute Road, Worcester, MA 01609.
Tel: 508 831 5543 Fax: 508 831 5483

Carrying out research on: bioreactor development for plant tissues; secondary products from plant tissues in culture; bioprocess education and training; controlled environments for plant culture; gene design for therapeutic proteins; molecular probes for aquaculture applications; eukaryotic gene structure and function; peptides and single amino acids as neurotransmitters; alternative cell culture methods for LAL production; microbial fermentations; physiology of immobilized cells; optimization and scale up of fermentation; developmental biology of the nematode; use of biotrap for retrieval of heavy metals in wastewaters.

Zolon Research Inc

214 Lincoln St, Allston, MA 02134.
Tel: 617 782 5713

Produces reagents for electrophoresis, immunodiagnosics and antibodies, protein purification for the production of diagnostics and therapeutics, nucleic acid sequencing services and process development for waste remediation.

Zymark Corp

Zymark Center, Hopkinton, MA 01748.
Tel: 508 435 9500 Fax: 508 435 3439

Supplies automated laboratory systems for high-throughput screening as well as a wide range of immunoassays and bio-assays.

Michigan — MI

ACT Biomedical Inc

321 Fisher Bldg, Detroit, MI 48202.
Tel: 313 871 3606 Fax: 313 873 4935

Developing immunotherapy systems for adoptive cellular therapies including T-cells for cancer.

American Society of Agricultural Engineers

2950 Niles Rd, St Joseph, MI 49085.
Tel: 616 429 0300 Fax: 616 429 3852

The Anspec Company Inc

50 Enterprise Drive, Ann Arbor, MI 48103.
Tel: 313 665 9666/800 521 1720
Fax: 313 665 6402

Supplies a wide range of chromatographic equipment, reagents and accessories.

Better Trees Inc

7894 Maple Rapids Rd, St Johns, MI 48879.
Tel: 517 682 4637

Produce biochemical fingerprints of plants and genetically-engineered trees.

BioImage Corp

1460 Eisenhower Place, Ann Arbor, MI 48108.
Tel: 313 971 7500/800 624 5894
Fax: 313 971 1061

Manufactures electrophoresis apparatus and analytical imaging instruments, densitometers, scanners and associated computer software. Subsidiary of Eastman Kodak.

Bioelectronics Corp

1852 Thunderbird, Troy, MI 48084.
Tel: 313 362 2727

Manufacture electrofusion systems.

BioQuant Inc

1919 Green Rd, Ann Arbor, MI 48105.
Tel: 313 995 2176 Fax: 313 995 0550

Produce a saliva collection device for research diagnostic purposes which overcomes the problems traditionally encountered with saliva collection. The patented device is a semipermeable membrane enclosing an osmotically active substance. It purifies saliva in situ and collects an ultrafiltrate that is an excellent medium for diagnostic assays.

Burdick & Jackson

1953 South Harvey Street, Muskegon, MI 49442.
Tel: 616 726 3171/800 368 0050
Fax: 616 728 8226

Purifies solvents for high performance liquid chromatography, spectrophotometry, fluorescence analysis of biological products, pesticide residues, etc.

Covalent Technology Corp

PO Box 1868, Ann Arbor, MI 48106.
Tel: 313 769 5377

Developing diagnostics for hormones and diseases. Subsidiary of KMS Industries, US.

Coy Corp/Coy Laboratory Products Inc

14500 Coy Drive, Grass Lake, MI 49240.
Tel: 313 475 2200 Fax: 313 475 1846

Manufacturers of a variety of thermal cyclers and equipment for use in DNA amplification and other applications. Also manufacture environmental chambers for anaerobic, anoxic, hypoxic and hyperoxic applications. Accessories include an oxygen/hydrogen analyzer and oxygen and humidity controllers.

Cryomed Inc

51529 Birch St, New Baltimore, MI 48047.
Tel: 313 725 4614 Fax: 313 725 7501

Supply cryogenic equipment, temperature probes and level monitors.

Difco Laboratories Inc

PO Box 331058, Detroit, MI 48232-7058.
Tel: 313 462 8500/800 521 0851
Fax: 313 462 8517

Produces microbial culture media, monoclonal and polyclonal antibodies, antigens, computer software for clinical testing systems, equipment and reagents for EIA, serums, stains, standards and controls, diagnostic test kits, plastic labware, microplate readers and laboratory reagents.

DowElanco

1701 Building, Midland, MI 48674-1701.
Tel: 517 636 1000 Fax: 517 636 5666

Major producer of chemicals, including plastics for industrial, agricultural and domestic use. Developing industrial enzymes and related processes.

Eberbach Corp

505 S Maple, PO Box 1024, Ann Arbor, MI 48106.
Tel: 313 665 8877 Fax: 313 665 9099

Manufactures laboratory equipment including separation and purification equipment, shakers and blenders, cooling plates and incubators etc.

Enzymes of America Inc

50575 Ryan Rd, Utica, MI 48087.
Tel: 810 731 6424 Fax: 810 731 0670

Produce custom urinary proteins for use in immunodiagnosics. Products include urokinase, pro urokinase, M-CSF, HUK and HGH.

Fenwal Biomedical Systems

1425 Lake Cook Rd, Deerfield, MI 60015.
Tel: 800 5 FENWAL Fax: 708 940 5766

Produce cell culture systems, apheresis systems for cell separation and plasma separation, freezing containers, media transfer systems, cell culture harvesting equipment and magnetic cell separation systems for immuno-specific cell selection. Division of Baxter Healthcare Corp, US.

Gelman Sciences Inc

600 South Wagner Road, Ann Arbor, MI 48103-9019.
Tel: 313 665 0651/ 800 521 1360
Fax: 313 913 6114

Develops and manufactures microfiltration products for use in research and clinical laboratories, health care facilities and industrial processes. Products include a patented membrane, an inherently hydrophilic polyethersulfone material, which is configured in devices to filter from 1 ml to 1000 litres, and therefore is particularly suited to the design of filtration systems for scale-up. Also produces a disposable syringe-tip filter which is

available in various pore sizes, diameters and membrane types for diverse applications.

Kellogg Co

236 Porter Street, Battle Creek, MI 49016.
Tel: 616 966 2000

Major producer of food products and breakfast cereals in particular. Has a substantial investment in Agrigenetics, US.

Leeco Diagnostics Inc

24475 West 10 Mile Rd, Southfield, MI 48034.
Tel: 313 353 2620/800 950 2620
Fax: 313 358 5039

Produce monoclonal antibodies, reagents for RIA and a range of clinical, microbiological diagnostic test kits including a test for AIDS.

Lipshaw Corp

7446 Central Ave, Detroit, MI 48210.
Tel: 313 834 8855/800 LIPSHAW
Fax: 313 834 1534

Supply monoclonal and polyclonal antibodies, laboratory equipment and diagnostics.

Lumigen Inc

PO Box 07339, Detroit, MI 48207.
Tel: 313 393 0085 Fax: 313 577 2299

Market chemiluminescent enzyme substrates.

Mallinckrodt Sensor Systems

1230 Eisenhower Place, Ann Arbor, MI 48108.
Tel: 313 973 7000/ 800 262 3654
Fax: 313 973 0189

Manufacture GEM systems for cost-effective, 'point-of-care' blood gas and electrolyte analysis (all electrochemical components are contained in a disposable cartridge).

McCann Associates Inc

3139 S. Wayne Rd., Wayne, MI 48184.
Tel: 313 721 0300 Fax: 313 761 3159

Developing a gene probe for diagnosis of Lyme's disease. Produces MAb-based diagnostics for cancer.

Meridian Instruments

2310 Science Parkway, Okemos, MI 48864.
Tel: 517 349 7200 Fax: 517 349 5967

Manufactures a line of laser scanning confocal microscopes, including slit scanning and stage scanning models, for high resolution imaging, data collection and analysis.

Michigan Biotechnology Institute

3900 Collins Rd, PO Box 27609, Lansing, MI 48909.
Tel: 517 337 3181 Fax: 517 337 2122

A non-profit, commercially-focused R&D company working in industrial and environmental biotechnology. "MBI's goal is to bring technologies to 'investment-grade' for new business creation, joint ventures, licensing and other commercialization structures."

Michigan Technological University

1400 Townsend Drive, Houghton, MI 49931-1295.
Tel: 906 487 2327 Fax: 906 487 2245

Carries out R&D in forest biotechnology including genetic engineering of hardwood and softwood trees to increase resistance to herbicides, insects and stress and to alter lignin content and structure; genetic engineering of mycorrhizal fungi; development of molecular probes for the detection of fungal pathogens; development of novel biological control mechanisms.

University of Michigan, Ann Arbor

Medical School Department of Biological Chemistry

1335 East Catherine Street, Ann Arbor, MI 48104.

Investigating isolation analysis of polyoma virus tumour antigens, cloning of coding sequences into plasmids and production of proteins in E coli.

MRC Systems Ltd

24079 Research Drive, Farmington Hills, MI 48024.
Tel: 313 476 7795 Fax: 313 476 6589

Supply clean rooms and controlled environment installations.

Neogen Corp

620 Leshar Place, Lansing, MI 48912-1509.
Tel: 517 372 9200 Fax: 517 372 2006

Produce diagnostic products for food, agriculture and veterinary healthcare industries, centring on mycotoxins and pesticides.

Nuclear Diagnostics/Sterling Biochemical Inc

NDI/SBI

1640 Hilton Rd, Ferndale, MI 48220.
Tel: 313 585 7600/800 521 9861
Fax: 313 585 8895

Produce polyclonal antibodies, reagents, standards and controls for RIA, clinical chemistry and histology as well as diagnostic test kits.

Oakland University

Institute for Biochemistry & Biotechnology
Rochester, MI 48309.
Tel: 810 379 2085 Fax: 810 370 2321

Oxford Biomedical Research Inc

1858 Star Batt Drive, Rochester Hills, MI 48309.
Tel: 313 852 8815 Fax: 313 852 4466

Manufacture enzymes and tests for prostaglandins.

Plas-Labs Inc

917 E Chison St, Lansing, MI 48906.
Tel: 517 372 7177/800 866 7527
Fax: 517 372 2857

Supplies anaerobic culture apparatus and glove boxes as well as microbiological hoods and bacteriological safety enclosures.

Pointe Scientific Inc

1025 John A Papalas Drive, Lincoln Park, MI 48146.
Tel: 313 383 7220/800 445 9853
Fax: 313 383 7841

Supply semi-automated analyzers, reagents, standards and controls for clinical chemistry as well as test kits.

Part II Minnesota — MN UNITED STATES OF AMERICA

Polycell Inc

321 Fisher Building, Detroit, MI 48202.
Tel: 313 873 0200 Telex: 9102500840
Fax: 313 873 4935

Developing diagnostics and therapeutics based on bifunctional monoclonal antibodies with applications in AIDS, ovarian cancer and neurochemistry research as well as imaging for heart disease. Licensed to Centocor, Cetus and Medicorp, US and in Japan. Subsidiary of Quest BioTechnology Inc, US.

Proteins International Inc

1858 Star Batt Drive, Rochester, MI 48309.
Tel: 313 852 1067 Fax: 313 852 4466

Produce immunodiagnostics and custom monoclonal antibodies.

The Quadroma Center

321 Fisher Building, Detroit, MI 48202.
Tel: 313 871 4151 Fax: 313 873 4935

Joint venture between MCA Development, Netherlands and PolyCell, US to provide custom development of bispecific monoclonal antibodies for diagnostics and therapeutics.

Quest BioTechnology Inc

321 Fisher Bldg, Detroit, MI 48202.
Tel: 313 873 0200 Telex: 910 250 0840
Fax: 313 873 4935

Research and development company using techniques of recombinant DNA technology and hybridomas to produce diagnostics and pharmaceuticals. Acquires, develops and commercializes biotechnological and human health-care products and processes. Products include bispecific monoclonal antibodies, in vitro diagnostics and therapeutics for cancer and imaging techniques. Acquired American Monitor Corp for the development of a clinical instrumentation and diagnostics division.

Quest Blood Substitute Inc

320 Fisher Building, Detroit, MI 48202.
Tel: 313 873 0200 Fax: 313 873 4935

Developing blood substitute products based on its modified cross-linked haemoglobin technology. Subsidiary of Quest BioTechnology Inc, US. Licensed to: Northfield Laboratories; Baxter International; Biopure Corp.

Recomtex Corp

4700 S Hagadorn Rd, Suite 290, East Lansing, MI 48823.
Tel: 517 332 1600

Produce genetic medical diagnostics.

ScienTemp

3565 S Adrian Hwy, Adrian, MI 49221.
Tel: 517 263 6020 Telex: 4972559
Fax: 517 263 5492

Offer a complete line of chest-type laboratory freezers from -20 to -96 degrees C.

Solohill Labs Inc

1919 Green Rd, Ann Arbor, MI 48105.
Tel: 313 665 0453 Fax: 313 663 9902

Manufacturing: 912 N Main St, Ann Arbor, MI 48104

Produces glass, plastic and collagen coated beads for use as microcarriers in cell culture applications.

Sterling Diagnostics Inc

6226 Product Drive, Sterling Heights, MI 48310.
Tel: 313 979 2141/800 637 2661
Telex: 501728 Fax: 313 979 4971

Supplies a wide range of diagnostic test kits.

Upjohn Co

7000 Portage Road, Kalamazoo, MI 49001.
Tel: 616 323 4000
Telex: 224401 upjohn ofc kmz
Fax: 616 323 7034

Has groups developing basic techniques in the following areas: molecular biology; cell biology; biopolymer chemistry. Results are made available to groups in pharmaceutical, agricultural fermentation and diagnostics research. Supports basic research in areas of molecular biology, protein and peptide chemistry including viral protein technology in relation to epitope immunology and novel vaccines, antibiotics, tetracycline, bovine growth hormone, seeds, recombinant DNA and hybridoma technology. The biotechnology group supports both product lead-finding and development. Products under development include immuno-modulator for AIDS and AIDS-related diseases.

Viran Clinical Diagnostics Inc

PO Box 172, Stevensville, MI 49127.
Tel: 616 429 0066

Produce a diagnostic test for Varicella-Zoster antibodies. Screening and titrating kits are available.

Minnesota — MN

American Biosystems Inc

PO Box 112, Marine-on-St Croix, MN 55047.
Tel: 612 430 3643

Offer services in custom immunoassay development, custom immunization and production of antisera to peptides and steroids. Sell products in bulk quantities only.

American Crystal Sugar Co

101 North Third Street, Moorhead, MN 56560-1990.
Tel: 218 236 4400

Sugar manufacturer involved in biogas production from sugar factory effluent.

American Phytopathological Society

3340 Pilot Knob Road, St Paul, MN 55121.
Tel: 612 454 7250

Acts as a forum to promote all aspects of research and exchange of information concerning the diseases of plants and their management and control. Organizes meetings and disseminates information by various means including publication of the journals Plant Disease, Phytopathology, Molecular Plant Microbe Interactions.

Angelon Corp

13000 Hwy 55, Plymouth, MN 55441.
Tel: 612 559 3370 Fax: 612 559 5909

Manufactures a biological pacemaker, small diameter vein graft material, angoplasty products and dilators.

Betaseed Inc

PO Box 195, Shakopee, MN 55379-0195.
Tel: 612 445 8090 Telex: 4310025 betaspk
Fax: 612 496 0205

Breed, produce and market seed of improved varieties of sugar beet.

Bio-Metric Systems Inc

9924 West 74 Street, Eden Prairie, MN 55344.
Tel: 612 829 2700 Fax: 612 829 2743

Produce reagents for the surface modification of medical devices.

Biomedical Frontiers Inc

1095 10th Ave SE, Minneapolis, MN 55414.
Tel: 612 378 0228 Fax: 612 378 3601

Developing iron chelation products including anti-oxidant and magnetic resonance imaging contrast agent.

BioTrol Inc

11 Peavey Rd, Chaska, MN 55318.
Tel: 612 448 2515 Fax: 612 448 6050

Specialize in environmental services including microbiological treatment and elimination of toxic and hazardous contaminants in water or soil. Products include bioreactors, a proprietary bacterial inoculant and other biotreatment systems. Services include soil washing, biotreatment and treatability testing.

Cellex Biosciences Inc

formerly Endotronics

8500 Evergreen Boulevard, Minneapolis, MN 55433.

Tel: 612 786 0302/800 325 1112
Telex: 910 380 4006 Fax: 612 786 0915

Manufactures a line of scaleable cell culture instruments for the continuous production of mammalian cell secreted proteins incorporating hollow fibre, ceramic core, stirred tank and fluidized bed bioreactors. Offers process feasibility studies and contract production services in GMP facilities.

DiMed Corp

1955 West County Road B2, St Paul, MN 55113.
Tel: 612 633 7003/800 328 1221
Fax: 612 633 3398

Produce prepared culture media.

Ecochem Research Inc

11 Peavey Road, Chaska, MN 55318-2321.
Tel: 612 448 4337 Fax: 612 448 1651

Offer services in custom synthesis, modification and immunoassay development.

GalaGen Inc

4001 Lexington Ave. N, Arden Hills, MN 55126.
Tel: 612 481 2193 Fax: 612 481 2380

Developing biopharmaceuticals derived from the milk and colostrum of dairy cows and transgenic animals, including polyclonal antibodies for therapeutic applications, primarily the treatment of gastrointestinal diseases in immunologically-compromised individuals.

Genesis Laboratories Inc

5182 West 76th St, Minneapolis, MN 55435.
Tel: 612 835 3446

Produce diagnostics including a blood glucose test and techniques for drug monitoring. Carrying out research on animal breeding and improvement.

Idea Scientific Co

PO Box 13210, Minneapolis, MN 55414.
Tel: 612 331 4612/ 1 800 433 2535
Fax: 612 331 4217

Manufactures electrophoresis equipment including vertical slab SDS polyacrylamide and other gels, electrophoretic blotting apparatus and Western blot strip testing equipment.

Immunotherapeutics

3505 Riverview Circle, Moorhead, MN 56560.
Tel: 701 232 9575

Produces immunomodulators.

Incstar Corp

1990 Industrial Blvd, Box 285, Stillwater, MN 55082.

Tel: 612 439 9710/800 328 1482
Fax: 612 779 7847

Supply radioimmunoassay, EIA, nephelometric and turbidimetric test kits and reagents for endocrinology, infectious disease, autoimmune disease, immunology, cardiology, transplantation and immune response. Reagents are also supplied on an OEM/custom basis to other manufacturers, including bulk quantities of catalogue products as well as custom manufacturing, custom immunization services and antisera.

Kallestad Diagnostics

1000 Lake Hazeltine Drive, Chaska, MN 55318.

Tel: 612 448 4848/800 666 5111

Telex: 166587 Fax: 612 368 1110

Manufactures a wide variety of radioimmunoassays and other immunoassay systems for medical diagnostics. Carries out diagnostic tests in areas of immunology, haematology and endocrinology on a contract basis for physicians, hospitals and research organizations.

Lifecore Biomedical Inc

3515 Lyman Blvd., Chaska, MN 55318.

Tel: 612 368 4300 Fax: 612 368 3411

Produces hyaluronic acid and hydroxyapatite. Also offer small volume clinical aseptic fill production capability on a contract basis.

Lifecore Inc

Microbiological Products

315 27th Avenue, SE Minneapolis, MN 55434.

Tel: (612) 379 8080 Telex: 4996985 diagnos

Market biological materials, speciality biochemicals, veterinary products, pharmaceuticals and derivatives of hyaluronic acid.

Micro-Bio-Logics

217 Osseo Ave North, St Cloud, MN 56303.

Tel: 612 253 1640/800 626 0001

Fax: 612 253 6250

Supply culture media, antibiotic sensitivity tests, freeze dry equipment, reagents and stains for bacteriology and serology as well as microbiological test kits.

Minn Vitro Inc

15 West 36th St, Minneapolis, MN 55408.

Tel: 612 825 8862

Undertake contract research and contract plant micropropagation. Developing methods of cloning plant material for production of tree species for reforestation.

University of Minnesota

Gray Freshwater Biological Institute

PO Box 100, Navarre, MN 55392.

Tel: 612 471 7777

Carrying out research on the enzyme thioredoxin reductase and its involvement in cell division and protection from sunburn.

University of Minnesota

Institute for Advanced Studies in Biological Process Technology

240 Gortner Laboratory, 1479 Gortner Ave, St Paul, MN 55108.

Tel: 612 624 6774

Minnesota Valley Engineering Inc

407 7th St NW, New Prague, MN 56071-0234.

Tel: 612 758 4400 Fax: 612 758 8252

Manufacture of liquid nitrogen freezers for low temperature (cryogenic) applications.

University of Minnesota, Minneapolis

School of Medicine Department of Biochemistry

1305 Mayo, Minneapolis, MN 55455.

Studying biochemistry of genetic recombination in yeast.

University of Minnesota, St Paul

Department of Plant Biology

St Paul.

Investigating gene structure and regulation in developmental biology of chloroplasts and nitrogen fixation in vascular and non-vascular systems.

National Biosciences Inc (NBI)

3650 Annapolis Lane North, #140, Plymouth, MN 55447-5434.

Tel: 612 550 2012/800 747 43623

Fax: 612 550 9625/800 3695118

Email: nbi@biotechnet.com.

Provides software and research services to the biotechnology industry. Mac and PC software includes programs for PCR analysis, DNA and protein sequence analysis, molecular modelling, genetic pedigree drawing/analysis, human genome mapping and multiple sequence alignment. Lab services include custom DNA/RNA, phosphorothioate, gene synthesis, DNA sequencing, oligonucleotide design, cloning, library screening and construction.

NuAire Inc

2100 Fernbrook Lane, Plymouth, MN 55447.

Tel: 612 553 1270/800 328 3352

Telex: 290781 nuhop Fax: 612 553 0459

Manufactures controlled environment safety cabinets of classes P1 to P3, carbon dioxide water-jacketed incubators and laminar airflow equipment.

Osmonics Inc

5951 Clearwater Dr, Minnetonka, MN 55343.

Tel: 612 933 2277/800 848 1750

Telex: 290847 Fax: 612 933 0141

Manufacture reverse osmosis, ultrafiltration, microfiltration, ozonation and distillation systems, depth and pleated cartridge filters, silver metal membranes, ceramic filters and high purity DI laboratory water systems.

Plant Science Research Inc

10320 Bren Road East, Minnetonka, MN 55343.

Tel: 612 936 6101

Developing improved varieties of crop plants and transgenic plants expressing insecticide genes. Subsidiary of BioTechnica International.

ProtaTek International Inc

1491 Energy Park Drive, St Paul, MN 55108.

Tel: 612 644 5391 Fax: 612 644 6831

Develop and produce hemotropic vaccines for the prevention of blood diseases in animals. Also produce immunofluorescent antigen slides for research purposes related to animal diseases. Offers diagnostic laboratory services to the veterinary profession.

R&D Systems Inc

614 McKinley Place NE, Minneapolis, MN 55413.

Tel: 612 379 2956/800 343 7475

Fax: 612 379 6580

Develops and markets cytokines and related reagents, including neutralizing antibodies, ELISAs, genes and probes for cytokines, cytokine receptors and adhesion molecules.

Research Inc

Control Systems

PO Box 24064, Minneapolis, MN 55424.

Tel: 612 941 3300 Fax: 612 941 3628

Produce laboratory-grade, process management and control equipment and computer software suitable for LIMS applications.

Resource Processing Services

15301 Hwy 55, Plymouth, MN 55447.

Tel: 612 550 1588 Fax: 612 550 1488

Provides contract freeze-drying and packaging services for regulated and non-regulated products. Proprietary lyophilization system utilizes advanced heat transfer technology that can speed drying cycles up to seven times faster than conventional methods. In addition, the system is capable of lyophilizing products at ultra-low temperatures which is shown to have beneficial effects successfully drying challenging solutions. Offers laboratory, pilot and production scale processing services to its customers. The laboratory services include assistance with laboratory lyophilization, formulation, cycle development, cycle optimization, scale-up and stability testing.

Sanofi Diagnostics Pasteur

1000 Lake Hazeltine Drive, Chaska, MN 55318.

Tel: 612 448 4848 Fax: 612 368 1110

Manufactures a wide variety of immunoassay systems for medical diagnostics. Carries out diagnostic tests in areas of immunology, haematology and endocrinology on a contract basis for physicians, hospitals and research organisations.

Stat-Ease Inc

Hennepin Square, Suite 191, 2021 East Hennepin Ave, Minneapolis, MN 55413.

Tel: 612 378 9449 Fax: 612 825 3429

Design and market software packages for use on IBM-compatible personal computers for design of experiments and drawing 3D response surface maps.

Systec Inc

3816 Chandler Drive, Minneapolis, MN 55421.

Tel: 612 788 9701/800 882 9662

Fax: 612 788 9502

Develops and manufactures biocompatible solvent handling systems and filters.

3M Bioapplications

275-2N-06 3M Center, St Paul, MN 55144.
Tel: 612 733 1952 Fax: 612 737 1273

Manufacturer and worldwide distributor of chemicals and chemical products. Has biotechnical research programmes in relation to pharmaceutical, diagnostic, medical and agricultural objectives with associated aspects of cell culture, virology, biochemistry etc.

Trend Scientific Inc

PO Box 120266, St Paul, MN 55112-0266.
Tel: 612 633 0925/800 328 3949
Fax: 612 633 6073

Supplier of quality control materials and stains for parasitology and microbiology, EIA test kits for infectious disease diagnosis, reagents for histology, microbiology and immunology, serological reagents, and a hazardous waste detoxifier for neutralization of formaldehyde solutions for safe drain disposal, subject to approval by federal, state and local disposal regulations.

Mississippi — MS**National Aeronautics & Space Administration (NASA)**

Earth Resources Laboratory

NSTL Station.
Tel: 601 688 3155

Developing total energy recovery systems based on growing plants on recycled minerals, capturing energy photosynthetically and converting it into methane and ethanol using digestion and fermentation.

Missouri — MO**American Radiolabeled Chemicals Inc**

11612 Bowling Green Drive, St Louis, MO 63146.
Tel: 314 991 4545 Fax: 314 991 4692

Produce speciality chemicals and radiolabelled chemicals.

American Soybean Association

ASA
777 Craog Rd, Box 27300, St Louis, MO 63141.
Tel: 314 432 1600

Anheuser-Busch Inc

One Busch Place, St Louis, MO 63188.
Tel: 314 577 2000

Carrying out research on yeast metabolism and growth including both aerobic and anaerobic conditions in continuous cultivation as well as studies on yeast molecular biology and the control of gene expression. Products include beer, yeast and interferon produced by recombinant DNA techniques.

Aquascience Research Group Inc

1100 Gentry Street, North Kansas City, MO 64116.
Tel: 816 842 5936

Supplies products for aquaculture including antibiotic (neomycin).

Biokyowa Inc

975 Nash Rd, Box 1550, Cape Girardeau, MO 63701.
Tel: 314 335 4849

Developing feed additives. Products include L-lysine and L-tryptophan as feed supplements for poultry or pigs.

Biosoft

PO Box 10938, Ferguson, MO 63135-9913.
Tel: 314 524 8029 Fax: 314 524 8129

Publishers of a comprehensive range of scientific software for PC and Macintosh computers including: experiment design; data acquisition; data analysis for radioligand binding; ELISAs, IRMAs, blots, kinetics etc; numerical and statistical modelling; genetic sequence manipulation and scientific presentation graphics.

Boehringer Ingelheim Animal Health Inc

2621 N Belt, St Joseph, MO 64502.
Tel: 816 233 2571 Fax: 816 233 0215

Produce veterinary products and pharmaceuticals. Using recombinant DNA technology to develop animal vaccines. Subsidiary of Boehringer Ingelheim, US.

CompuGene

223 Renaldo Drive, Chesterfield, MO 63017-2210.
Tel: 314 434 7250/800 231 4545

Produces computer software packages for use in molecular biology and analysis of DNA suitable for IBM PC or VAX systems.

Cultech Diagnostics

1013 Commercial Drive, Owensville, MO 65066.
Tel: 314 437 4117/800 325 0167

Supply culture media and diagnostics for clinical microbiology.

HEMCO Corp

111 N Powell, Independence, MO 64056.
Tel: 816 796 2900/800 779 4362
Fax: 816 796 3333

Manufacture fume hoods, biohazard enclosures and clean rooms.

In Vitro Scientific Products

823 Hanley Ind Court, St Louis, MO 63144.
Tel: 314 963 1993/800 325 2104
Fax: 314 963 9869

Manufacture tissue culture products including roller bottles and flasks.

Invitron Corp

4649 Le Bourget Drive, St Louis, MO 63114.
Tel: 314 426 5000/800 325 1792
Fax: 314 426 6331

Large-scale contract manufacturer of biopharmaceuticals derived from mammalian cell culture utilizing proprietary perfusion culture technology. Provides comprehensive services to complete all phases of production, process qualification and purification starting from a cell line to bulk finished therapeutic grade biopharmaceutical material. Products are manufactured under cGMPs. Major contracts: Rorer Group Inc to produce Factor VIII and a monoclonal antibody to purify Factor VIII; and SmithKline Beckman Corp for the development and production of soluble T4 (a potential AIDS therapeutic).

Kinetek Systems Inc

11810 Borman Drive, St Louis, MO 63146.
Tel: 314 432 0870/800 222 2995
Fax: 314 432 0357

Supply cell and tissue culture equipment and supplies, bioreactors and supports and packings for affinity chromatography and HPLC.

Labconco Corp

8811 Prospect Ave, Kansas City, MO 64132.
Tel: 816 333 8811/800 821 5525
Fax: 816 363 0130

Supplies laminar flow Class II biohazard safety cabinets, fume hoods, lyophilizers, centrifugal concentrators, electrophoresis instruments, evaporators and water purification systems.

Labomatic Instruments Inc

901 Cosby St, Liberty, MO 64068.
Tel: 816 792 3719 Fax: 816 792 1922

Supply columns for preparative HPLC chromatography (see Labomatic, Switzerland).

Merck & Co Inc

Isotopes Division

4545 Oleatha Avenue, St Louis, MO 63116.
Tel: 800 325 9034 Fax: 314 353 3754

PO Box 2951 Terminal Annex, Los Angeles, CA 90051.
Tel: 800 372 6454

Supplies isotope-labelled compounds and stable isotopes: deuterium, carbon-13, nitrogen and oxygen isotopes.

Midwest Research Institute

Life Sciences Department

425 Volker Boulevard, Kansas City, MO 64110.
Tel: 816 753 7600 Fax: 816 753 8420

Independent research institute with over 50 years of experience. Offers contract research services to the biotechnology industry including pharmaceutical product development and preclinical pharmaceutical studies. These studies include toxicology and metabolism, drug formulation and development, clinical research on new pharmaceuticals, bioremediation, biodetection, immunoassay development and PCR-based DNA probe assay development. Provides research and regulatory support in product safety, analytical chemistry, engineering, microbiology and molecular biology as well as assistance in drug and pesticide regulation submissions. Projects involve bench-level bioremediation studies, design of new systems for environmental sampling and detection and microencapsulation of various products. Has facilities for handling of hazardous materials as well as biologic safety level 3 (BSL-3) microbiology labs.

University of Missouri

Department of Biochemistry

117 Schweitzer Hall, Columbia, MO 65211.
Tel: 314 882 4845 Fax: 314 882 5635

Offers bachelor and graduate programmes in biotechnology with an emphasis on agriculture, particularly relating to crop improvement, animal reproductive biology and genetic mechanisms.

University of Missouri

Department of Agricultural Engineering

215 Agricultural Engineering Building, Columbia, MO 65211.
Tel: 314 882 2369 Fax: 314 884 5650

Developing methods for isolation and enumeration of microbial populations in anaerobic digesters as well as determination of nutritional and environmental requirements of pure cultures of some organisms; developing standards for constructed subsurface wetlands; food engineering, especially extrusion cooking; investigation of vegetable oil as a fuel for compression-ignition engines.

Monsanto Chemical Co

800 North Lindbergh Blvd, PO Box 7090, St Louis, MO 63167.
 Tel: 314 694 1000 Telex: 447282
 Fax: 314 694 4105

Has developed composite hollow fibre membrane systems for separation of individual gases from mixtures, suitable for recovery of hydrogen, methane and other valuable gases from waste streams or from biogas generated by anaerobic digestion or on landfill sites. Supporting a significant programme of research on the structure of oligosaccharides at the Biochemistry Department, Oxford University, UK. Also carrying out research on mechanisms of pesticide and herbicide resistance.

Monsanto Co

700 Chesterfield Village Pkwy, St Louis, MO 63198.
 Tel: 314 694 1000

Manufactures agrochemicals and pharmaceuticals. Carrying out research over a wide area including aspects of agriculture, biochemistry and other life sciences. Research interests include aspects of plant genetic manipulation using the Ti plasmid as vector as well as studies of the mechanism of resistance to virus infection.

P J Cobert Associates Inc

PO Box 460046, St Louis, MO 63146.
 Tel: 314 993 2390 Fax: 314 993 2491

Distributes a wide range of chromatography equipment and supplies for GC, HPLC, TLC etc.

Pathfinders Laboratories Inc

11542 Fort Mims Drive, St Louis, MO 63146.
 Tel: 314 569 0681

Supply a wide range of carbon 14-labelled organic compounds including amino acids, carbohydrates, lipids, pesticides etc, as well as general biochemicals and chemicals.

Petrolite Corp

369 Marshall Avenue, St Louis, MO 63119.
 Tel: 314 968 6109 Telex: 193164
 Fax: 314 968 6142

Provides services related to optimization of purity and yield for fermentation processes, including production of antibiotics, enzymes, amino acids, organic acids, hormones, vitamins, immunotherapeutics, bioinsecticides, ethanol, etc; and products with applications in foam control, emulsion control, solids control, viscosity reduction, nutrient emulsification, filter aids and membrane separation enhancement. The company was a pioneer in penicillin production improvement during World War II, and presently operates with secrecy agreements with major pharmaceutical firms worldwide.

Precision Stainless Inc

3300 E Pythian, PO Box 668, Springfield, MO 65802.
 Tel: 417 865 2990 Fax: 417 865 0906

Manufacture stainless steel processing equipment including fermenters and reactors.

Saf Bulk Chemicals

3050 Spruce St, St Louis, MO 63103.
 Tel: 314 534 4900 Fax: 314 652 0000

Supply reagents for chromatography and microbiology, amino acids, proteins and peptides, enzymes, chemicals for molecular and cell biology. Offer custom synthesis.

Scientific Associates Inc

6200 S Lindbergh Blvd, St Louis, MO 63123.
 Tel: 314 487 6776 Fax: 314 487 8991

Undertake contract analytical services in the pharmaceutical, feed, food and chemical industries.

Seller Instrument & Manufacturing Co Inc

170 E Kirkham Ave, St Louis, MO 63139.
 Tel: 314 968 2282 Fax: TWX: 910 760 1658

Supply a range of optical and fluorescence research microscopes including models working with incident light, incident light and transmitted light or phase contrast allowing alternate or simultaneous use of fluorescence and contrast techniques.

Sigma Chemical Co

3050 Spruce St, St Louis, MO 63101.
 Tel: 314 771 5765/800 325 3010
 Fax: 314 771 5757/800 2629141

PO Box 14508, St Louis MO 63178.

Supplies a very wide range of fine chemicals, biochemicals, chemical reagents and enzymes, including affinity chromatography media, deuterated compounds, fermentation nutrients, immunochemicals, gel filtration media, ion exchangers, venoms, lectins, stabilised red blood cells, materials for tissue culture, absorbents for thin layer chromatography, restriction enzymes, nucleotides etc. Also supplies diagnostic kits and reagents for automated analysis.

Sigma Diagnostics

545 South Ewing Ave, St Louis, MO 63103.
 Tel: 314 771 5750/800 325 3010
 Telex: 910 761 0593 Fax: 314 652 9930

Supply a wide range of reagents, stains, standards and controls for clinical chemistry as well as test kits and monoclonal antibodies.

Simmler Inc

4156 Hoffmeister Ave, St Louis, MO 63125.
 Tel: 314 638 6300/800 325 0786
 Telex: 910 761 1080 simchem
 Fax: 314 638 5934

Supply reagents, standards and controls as well as diagnostic kits for clinical chemistry.

Sverdrup Corp

801 North Eleventh St, St Louis, MO 63101.
 Tel: 314 436 7600 Telex: 910 761 1085
 Fax: 314 436 2959

Offer consulting and engineering services in development, design, construction and operation of facilities in the biotechnology and pharmaceutical industries.

Technical Products International Inc

5918 Evergreen, St Louis, MO 63134.
 Tel: 314 522 8671 Fax: 314 522 6360

Supply stage mounted and free standing pneumatic driven micromanipulators; a microforge; fresh/fresh fixed tissue sectioning systems.

Tripos Associates Inc

1699 South Hanley Road, Suite 303, St Louis, MO 63144.
 Tel: 800 323 2960 Fax: 314 647 9241

Produces molecular modelling and analysis software and provides related scientific support services for the pharmaceutical, biotechnology and chemical research industries. Provides biopolymer and 'small' molecules software in a single package, and rapid and flexible construction and manipulation of macromolecules, including insertions, deletions and point mutations. Subsidiary of Evans & Sutherland.

Vitek Systems

595 Anglum Drive, Hazelwood, MO 63011.
 Tel: 314 731 8500/800 MD VITEK
 Fax: 314 731 8800

Supply antibiotic susceptibility testing systems, gamma counters, equipment and reagents for immunology, serology and bacteriology.

University of Washington

Department of Molecular Microbiology
 660 South Euclid Avenue, St Louis, MO 63110.
 Tel: 314 362 7059 Fax: 314 362 1232

Carrying out studies on genome research, bacterial genetics, bacterial pathogenesis, parasite pathogenesis, RNA virology, and antivirals.

University of Washington

Department of Biological Chemistry
 4559 Scott Avenue, St Louis, MO 63130.
 Studying control of nucleic acid synthesis and DNA sequences.

University of Washington

Department of Plant Biology
 4559 Scott Avenue, St Louis, MO 63130.
 Studying synthesis of sub-units of soya storage protein in cell-free systems using RNA isolated from soybean. Also studying regulation of synthesis of seed storage proteins.

University of Washington

Department of Internal Medicine
 St Louis.
 Tel: 314 362 8834
 Carrying out research into applications of plant molecular biology including aspects of the use of the barley seed amylase regulatory system as a vehicle for expression of foreign genes.

Montana — MT

Alcotech

Box 150, Ringling, MT 59642.
 Tel: 406 547 2116 Fax: 406 547 3877

Developing cellulose breakdown products by biomass conversion and fermentation processes.

ChromatoChem Inc

2837 Fort Missoula Rd, Missoula, MT 59801.
 Tel: 406 728 5897/800 426 7227
 Fax: 406 728 5924

Develop and manufacture affinity chromatography columns for protein purification. Also develop and manufacture supports for removal of metals from liquid waste streams.

Gametrics Ltd

HC 69, Box 50, Alzada, MT 59311.
 Tel: 307 878 4494 Fax: 307 878 4499
 324 South Third St, 2nd floor, Las Vegas, NV 89101.
 Tel: 702 384 1049 Fax: 702 384 7338

Research company working on pest control and sex determination in humans and other mammals through sperm manipulation. Owns X/Y Genetics Ltd, US.

Part II Nebraska — NE UNITED STATES OF AMERICA

Montana State University

Department of Plant Pathology

Bozeman, MT 59717.

Has developed a novel method for the production of the cancer therapeutic taxol using the fungus *Taxomyces andreanum*, which was discovered in the phloem tissues of the Pacific yew tree, *Taxus brevifolia*. Licensing rights for the new technology have been granted to Cytoclonal Pharmaceuticals, US.

National Institute of Allergy & Infectious Diseases

Rocky Mountain Laboratories

903 South 4th St, Hamilton, MT 59840.

Tel: 406 363 3211

Developing vaccines by conventional methods as well as through use of recombinant DNA technology. Activities include attempts to produce a safer vaccine against whooping cough.

National Institutes of Health

National Institute of Allergy & Infectious Diseases

Rocky Mountain Laboratories, Hamilton, MT

59840.

Tel: 406 363 3211

Omega Biologicals Inc

910 Technology Blvd, Bozeman, MT 59715.

Tel: 406 586 3790 Telex: 6502927844 mciuw

Fax: 406 586 3792

Supplies purified enzymes, hormones, antigens and antibodies for the manufacture of clinical diagnostics.

Quad Five

361 Rothiemay Rd, Ryegate, MT 59074.

Tel: 406 568 2911/406 248 8128

Fax: 406 568 2307

Manufactures serum, plasma, whole blood and antiserum from donor cattle, sheep, horses and goats for tissue culture, veterinary vaccine, immunology and bacteriological plating use, custom polyclonal antisera, rhizobial seed treatments, silage inoculants, animal feed products and organic fertilizers. Performing research and development on monoclonal antibodies, growth factors, immunoglobulins, Rhizobial efficacy and Trichoderma soil amendment studies.

Ribi ImmunoChem Research Inc

PO Box 1409, 553 Old Corvallis Road, Hamilton, MT 59840.

Tel: 406 363 6214/800 548 RIBI

Telex: 295708 Fax: 406 363 6129

Produces a line of high-quality immunomodulators including proprietary adjuvant systems and mitogens for basic research and hybridoma production, derived from bacterial and mycobacterial cell walls.

Skyland Scientific Services Inc

601 Haggerty Lane, Bozeman, MT 59715.

Tel: 406 586 7211 Fax: 406 586 6416

Offers process validation services to the biotechnology industry.

Titre Inc

361 Rothiemay Rd, Ryegate, MT 59074.

Tel: 406 568 2914/406 252 1535

Fax: 406 568 2307

Manufactures rhizobial inoculants for soybeans, peanuts, alfalfa, peas, lentils, faba beans, field beans, clover and trefoil. Microbial silage inoculants and delivery systems also available. Research and

development proceeding on mycorrhiza and trichoderma production.

X/Y Gametrics Ltd

HC 69, Box 50, Alzada, MT 59311.

Tel: 307 878 4494 Fax: 307 878 4499

Research company developing products for animal and human sex selection, and sperm genetics. Subsidiary of Gametrics Ltd.

Yellowstone International Inc

United Agri Products - Clean Crop

2341 1st Avenue South, Billings, MT 59101.

Tel: 406 252 6628/1535 Fax: 406 252 0008

PO Box 957, Billings, MT 59103

Produce legume inoculants, products of Titre, US.

Nebraska — NE

American Laboratories Inc

4410 South 102nd Street, Omaha, NE 68127.

Tel: 402 339 2494 Telex: 3735593 cacoma

Fax: 402 339 0801

Produces animal proteolytic enzymes, blood products, gland extracts, animal hormones and culture media ingredients.

Harris Laboratories Inc

PO Box 80837, Lincoln, NE 68501.

Tel: 402 476 2811 Telex: 469018

Fax: 402 476 7598

Performs Phase I-IV clinical research, including bioanalytical services and regulatory consultation.

ISCO Inc

PO Box 5347, 4700 Superior, Lincoln, NE 68505.

Tel: 402 464 0231/800 228 4250

Telex: 484353 Fax: 402 464 4543

Manufactures a wide range of laboratory instruments for LC, HPLC and capillary electrophoresis.

LI-COR Inc

4421 Superior St, PO Box 4425, Lincoln, NE 68504.

Tel: 402 467 3576 Telex: 910 621 8116

Fax: 402 467 2819

Manufactures a variety of instruments for biological sciences including automated DNA sequencers, CO₂ analyzers, photosynthesis measurement instruments and a variety of light meters and sensors.

Midland Scientific Inc

1202 S 11th Street, Omaha, NE 68108.

Tel: 402 346 8352/800 642 5263

Fax: 402 346 7694

Supplies laboratory equipment and reagents including sterilizers, petri plate viewers, filtration devices, glassware, tissue culture apparatus and transfer membranes.

National Gasohol Commission

521 South 14th Street, Suite 5, Lincoln, NB 68508.

University of Nebraska

Department of Chemical Engineering

Lincoln.

Studying production of fuel ethanol from corn and analysis of the energetics of the process.

United States Department of Agriculture, Agricultural Research Service

R L Hruska US Meat Animal Research Center

Agricultural Research Service

PO Box 166, Clay Center, NE 68933-0166.

Tel: 402 762 4100 Fax: 402 762 4148

Carrying out research on gene mapping, gene actions and genetic probes in livestock.

Nevada — NV

Hamilton Co

4970 Energy Way, Reno, NV 89502.

Tel: 702 858 3000/800 648 5950

Fax: 702 856 7259

Manufactures microsyringes and precision fluid dispensing devices as well as equipment for gas chromatography and HPLC.

Immunex Inc

1445 Hot Springs Rd, Suite 108, Carson City, NV

89701-3656.

Tel: 702 885 9400/800 854 1903

Telex: 3718223 immunex Fax: 702 885 9721

Producing diagnostics, monoclonal antibodies, polyclonal antibodies to haptens, radioimmunoassay kits and reagents.

Linear Instruments Corp

2325 Robb Drive, Reno, NV 89502.

Tel: 702 746 2200 Fax: 702 746 2212

Manufacture equipment for HPLC and super critical fluid chromatography, flow cells, fluorimeters and associated computer data systems and controls.

Sierra Separations Inc

56 Glen Carran Circle, Sparks, NV 89431.

Tel: 702 825 1493/800 949 7768

Fax: 702 825 1729

Produces ion exchange resins and speciality column packings for high performance liquid chromatography, as well as amino acid calibration standards and buffers for amino acid analysis by column chromatography.

New Hampshire — NH

Balzars

8 Sagamore Park Road, Hudson, NH 03051-4914.

Tel: 603 889 6888 Fax: 603 889 8573

Supply gas monitoring equipment for fermentation processes with computer control and data recording software.

Berthold Analytical Instruments Inc

472 Amherst St, Nashua, NH 03063.

Tel: 603 889 3309/800 343 6345

Fax: 603 889 3409

Supply instrumentation for chromatography, bioluminescence and chemiluminescence, scintillation and radioactivity counting: luminescence immunoassays, DNA probe assays with luminescent tags, ATP determination and luciferase measurement. Part of EG&G Group.

Biorelease Technologies Inc

8 Industrial Way, Building A, Salem, NH 03079.

Tel: 603 893 7300 Fax: 603 894 5148

Produces bovine haemoglobin for use as an oxygen transport agent for the high density culture of insect or mammalian cells.

Diatech Inc

9 Delta Drive, Londonderry, NH 03053.
Tel: 603 437 8970 Fax: 603 437 8977

Carrying out R&D of peptides for therapeutics and in vivo diagnostics including products for atherosclerosis, thrombosis, cancer and infectious diseases.

EG & G Berthold

472 Amherst St, Nashua, NH 03063.
Tel: 603 883 3309/800 343 6345
Fax: 603 889 3409

Supply TLC radioisotopic imaging equipment and scanners, HPLC radioactivity flow monitors, high sensitivity luminometers and immunoassay washers.

Inotech Biosystems International Inc

PO Box 586, Jaffrey, NH 03452.
Tel: 603 532 4235

Develop products for cell culture and immunology including cell harvesting equipment, radioimmunoassays and detection tests.

Labsphere Inc

Box 70, Shaker Street, North Sutton, NH 03260.
Tel: 603 927 4266 Fax: 603 927 4694

Manufacture integrating spheres, integrating sphere instrumentation, diffuse reflectance standards, materials and coatings and reflectance spectroscopy accessories.

NESLAB Instruments Inc

25 Nimble Hill Rd, Newington, NH 03801.
Tel: 1 800 258 0830 Fax: 603 436 8411

Manufacturer of constant temperature bath/circulators, immersion coolers, personal freezers and recirculating chillers.

University of New Hampshire

Jackson Estuarine Laboratory

Durham.
Tel: 603 862 2175 Fax: 603 862 1101

Developing improved strains of seaweed *Chondrus crispus*, which produces the gum carrageenan, using methods of strain selection, colchicine-induced polyploids and somatic hybridization. Also developing methods of direct detection of water-borne pathogens including HAV, Norwalk, *Vibrio vulnificus* and *Vibrio parahaemolyticus* using polymerase chain reaction (PCR), gene probes and indirect immunofluorescence.

Optomax Inc

9 Ash St, Route 130, Hollis, NH 03049.
Tel: 603 465 2291 Telex: 710 228 3456

Manufacture particle analyzers.

Protan Inc

135 Commerce Way, Suite 201, Portsmouth, NH 03801.

Tel: 603 433 1231/800 223 9030
Fax: 603 433 1348

Supplies algal products including cell culture microcarriers and matrices. Subsidiary of Protan AS, Norway.

Schleicher & Schuell Inc

10 Optical Ave, PO Box 2012, Keene, NH 03431.
Tel: 603 352 3810/800 245 4024
Telex: 757910 Fax: 603 357 3627

Supplies products for biomolecular research. Has a range of nitrocellulose and nylon transfer/immobilization membranes, nucleic acid and protein purification products, non-isotopic detection kits, macro/micro/ultra filtration membranes and disposable devices, full line of electrophoresis equipment, glass fibre filters for cell harvesting, disposable devices for small to medium volume cell culture and HPLC sample/solvent filtration.

Steraloids Inc

PO Box 310, Wilton, NH 03086.
Tel: 603 654 9509

Manufactures hormones for use in medical research. Almost 1500 steroids available from stock.

Verax Corp

HC 61, Box 6, Etna Rd, Lebanon, NH 03766.
Tel: 603 448 4445 Telex: 953072
Fax: 603 448 5681

Manufactures scale up technology for mammalian cell culture including collagen supports for culture media and cell culture equipment.

New Jersey — NJ

Aberlyn Holding Company Inc

18 Winter Place, Matawan, NJ 07747.
Tel: 908 583 5108 Fax: 908 583 8499

Offers total investment banking services to the bioscience industry.

Acculab Division Precision Technology

50 Maple St, PO Box 422, Norwood, NJ 07648-0422.
Tel: 201 767 1600 Fax: 201 767 6739

Distribute automated analyzers and ancillary equipment.

Ace Glass Inc

1430 N W Boulevard, Vineland, NJ 08360.
Tel: 609 692 3333

Manufacture equipment and accessories for liquid chromatography and HPLC including columns, extraction equipment, filters and laboratory glassware.

Advanced Separation Technologies Inc

37 Leslie Court, Whippany, NJ 07981.
Tel: 201 428 9080 Fax: 201 428 0152

Manufactures columns and column packings and supports etc for gas and liquid chromatography.

Affinity Technology Inc

100 Jersey Avenue, D11, New Brunswick, NJ 08901.

Produces reagents for removal of impurities from biological systems and subsequent recovery of proteins, antibodies and nucleic acids.

AGEN Inc

90 East Halsey Rd, Parsippany, NJ 07054.
Tel: 201 884 2424 Fax: 201 428 9877

Produces a line of whole blood rapid assays and test kits for fibrinolysis, cystic fibrosis, infectious diseases and veterinary applications.

Alfacell Corp

225 Belleville Avenue, Bloomfield, NJ 07003.
Tel: 201 748 8082 Fax: 201 748 1355

Producing anti-cancer drugs derived from living donor animal tissue, as well as purified proteins, serums, antisera, complement, growth and attachment factors, collagen and other animal byproducts. Offer services in custom monoclonal antibodies.

Alladin Diagnostics Inc

84 Bayard Lane, Princeton, NJ 08540.
Tel: 609 921 3229

Manufacture clinical test kits. Developing assays for enzymes and enzyme related disorders.

Allied Corp

Columbia Road & Park Avenue, PO Box 4000 R, Morristown, NJ 07960.
Tel: 201 455 2000

Interests in biotechnology lie in agricultural applications and in the production of industrial, speciality and agricultural chemicals. Have investments in both Bio Logicals Inc, Canada and Calgene Inc, US.

Alteon Inc

165 Ludlow Ave., Northvale, NJ 07647.
Tel: 201 784 1010 Fax: 201 784 1344

Develops pharmaceuticals for the treatment of diabetes and age-related conditions. Carrying out research on aminoguanidine, a second generation age inhibitor and a macrophage stimulator.

American Cyanamid Co

One Cyanamid Plaza, Wayne, NJ 07470.
Tel: 201 831 2522/2739

Fax: 201 831 3551/3858
Berdan Ave, Wayne, NJ 07470

Produces bulk medicinal products by fermentation (antibiotics and enzymes) and fine chemicals as well as agricultural, chemical, medical and consumer products. Carrying out research in rDNA technologies and has a medical products research and production division, Lederle Laboratories, US. Has investment interest in Molecular Genetics, US. Products under development include immuno-modulator for AIDS.

American Cyanamid Co

Agricultural Research Division

PO Box 400, Princeton, NJ 08543-0400.
Tel: 609 799 0400 Fax: 609 275 3502

Produce animal feed antibiotics, parasite and pest control products, bovine somatotropin and crop and vegetation protection herbicides and pesticides.

American Diagnostics

340 Kingsland St, Nutley, NJ 07110-1141.
Parent company of Clonal Diagnostics, US.

American Gas and Chemical Co

220 Pegasus Ave, Northvale, NJ 07647.
Tel: 201 767 7300/800 288 3647

Telex: 135151 Fax: 201 767 1741

Manufacture environmental alarm systems, oxygen analyzers, sensors and detectors.

American Hoechst Corp

206 North Route 202, Somerville, NJ 08876.
Tel: 201 231 2000 Telex: 833449

Manufactures pharmaceuticals, diagnostic reagents, veterinary products, pesticides and other products of Hoechst AG, Germany.

Part II New Jersey — NJ UNITED STATES OF AMERICA

American Ultraviolet Co

562 Central Ave, Murray Hill, NJ 07974.
Tel: 908 665 2211 Telex: 139266
Fax: 908 665 9523

Manufactures ultraviolet lamps for sterilization of clean rooms and laboratories.

Applied Bioscience International

Metlert Rd, PO Box 2360, East Milstone, NJ 08875-2360.
Tel: 908 873 2550 Fax: 908 873 8899

Provides a broad range of services including biological safety testing, clinical research and development, management of agrochemical research and development, and the assessment and management of chemical and environmental risk.

Arsynco Inc

PO Box 8, Foot of 13th Street, Carlstadt, NJ 07072.
Tel: 718 898 2300 Telex: 62662

Produces fine organic chemicals and intermediates for the pharmaceutical industry.

Ausimont USA Inc

44 Whippany Rd, Morristown, NJ 07960.
Tel: 201 292 6250

Supplies speciality chemicals. Affiliated with Montedison, Italy.

Avebe Ammerica Inc

4 Independence Way, Princeton, NJ 08540.
Tel: 609 520 1400 Telex: 0820713
Fax: 609 520 1473

Use enzymatic and microbiological methods for processing of starch to glucose and glucose syrups, maltodextrins, cyclodextrins, potato starch, starch derivatives and related products for the food, pharmaceutical, paper and textile industries, as well as animal feed products and polyurethane raw materials.

AVIV Associates Inc

750 Vassar Ave, Lakewood, NJ 08701-6907.
Tel: 908 367 1663 Fax: 908 370 0032

Supply UV, visible and IR spectrophotometers, circular dichroism spectrometers, spectrometer cells, detectors and thermoelectric devices.

Becton Dickinson & Co

Clay Adams Division

299 Webro Road, Parsippany, NJ 07054.
Tel: 201 887 4800

Manufactures and distributes plastic disposable and other laboratory ware for cell, microbial and tissue culture.

Becton Dickinson & Co

Medical Sector

1 Becton Drive, Franklin Lakes, NJ 07417.
Tel: 201 848 6800

Produces medical devices and monoclonal antibody-based reagents.

Becton Dickinson Labware

2 Bridgewater Lane, Lincoln Park, NJ 07035.
Tel: 201 628 1144/800 235 5953
Fax: 201 628 1533

Manufactures tissue culture flasks, dishes, roller bottles and plates, plastic serological pipettes, centrifuge tubes, filters and petri dishes.

Bellco Biotechnology

Bellco Glass Inc

340 Edrudo Rd, PO Box B, Vineland, NJ 08360.
Tel: 609 691 1075/800 257 7043
Telex: 510 687 8910 Fax: 609 691 3247

Manufacture a laboratory bioreactor for high density mammalian cell culture, a wide range of laboratory glassware for cell culture with related instrumentation and apparatus, including roller culture and suspension systems, incubators and biohazard safety cabinets, tissue culture plastic labware, culture chambers and plaque viewer as well as media handling and water distillation equipment. Part of Bellco Glass Inc.

Berlex Laboratories Inc

110 East Hanover Ave, Cedar Knolls, NJ 07927.
Tel: 201 540 8700 Telex: 136354

1401 Harbor Bay Parkway, Alameda, CA 94501.
Tel: 415 769 5200

Carrying out basic research on endothelial cell function and development of clinical therapeutics. Acquired Triton Biosciences in November 1990.

Bio Diagnostic Systems Inc

Research Park, 1 Wall St, Princeton, NJ 08540.
Tel: 609 924 9490

Supply polyclonal antibodies, reagents and controls for bacteriology and serology as well as test kits.

Bio-Chem Laboratory Systems Inc

1650 Oak St, Lakewood, NJ 08701.
Tel: 201 364 7600/800 345 2822
Fax: 201 367 9468

Manufacture automated analyzers and related software for clinical testing, test kits, standards and controls.

Bio-Imaging Technologies Inc

830 Bear Tavern Road, West Trenton, NJ 08628.
Tel: 609 883 2000 Fax: 609 883 7719

Uses proprietary computerized image processing technology to help biotechnology and biopharmaceutical companies in the clinical development and regulatory review of drugs. Technology used includes MRI, CAT, PET, SPET, nuclear scanners, video-linked endoscopes and ultrasonic devices.

Bio-Logical Control Inc

740 River Rd, Fair Haven, NJ 07704.
Tel: 201 530 7555 Fax: 201 530 7883

Manufacture clean room equipment and clothing. Offer custom services.

Bio-Recovery Inc

P.O. Box 5030, Hoboken, NJ 07030.
Tel: 201 784 9396 Fax: 201 784 0151

Produces downstream processing systems including crossflow membrane filters.

Biomatic Associates

488 Hobart Rd, N Brunswick, NJ 08902.
Tel: 908 297 4106

Offers process design and scale-up services related to fermentation, recombinant DNA, single-cell proteins, enzymes, hormones, waste treatment vitamins and speciality chemicals. Also produces process control software.

Biomatrix Inc

PO Box 530, 65 Railroad Ave, Ridgefield, NJ 07657.
Tel: 201 945 9550 Telex: 4992758
Fax: 201 945 0363

Manufactures novel biomaterials based on modified hyaluronic acid for a wide variety of medical applications, including orthopedics, ophthalmics and drug delivery, and markets speciality intermediates for use in personal care products.

BioMedic Data Systems Inc

255 West Spring Valley Ave, Maywood, NJ 07607.
Tel: 201 587 8300/800 526 BMD5
Fax: 201 843 8816

Supply computer systems and software including an electronic laboratory animal identification and monitoring system.

Biomedical Products Corp

59 White Meadow Rd, Rockaway, NJ 07866.
Tel: 201 627 6010 Fax: 201 627 7832

Supply immunological and serological equipment and reagents as well as a wide range of clinical test kits. Undertake contract research and offer services in instrument design.

Biometallics Inc

PO Box 2251, Princeton, NJ 08543.
Tel: 609 275 0133 Fax: 609 275 9485

Produce test kits for progesterone and ovulation detection. Develop software for data acquisition of ELISA analysis.

Bioprocessing Inc

116 Village Blvd, Suite 200, Princeton Forrestal Village, Princeton, NJ 08540-5799.
Tel: 609 951 2243 Fax: 609 951 2217

Manufacturer affinity matrices for the purification of antibodies and other proteins, specifically developed for large scale biopharmaceutical production. Undertake contract manufacture and production of affinity matrices as well as protein purification, endotoxin removal and peptide screening. A subsidiary of Bioprocessing Ltd, UK.

Biotest Diagnostics Corp

66 Ford Rd, Suite 131, Denville, NJ 07834.
Tel: 201 575 4500

Manufacture diagnostics, including monoclonal antibodies against blood groups, antibodies against cell surface markers and cell surface receptors, growth factors, immunoglobulins etc, as well as systems for bacterial detection and equipment such as colony counters. Carrying out research into DNA probes, HIV-1 and HIV-2 recombinant-protein tests and interleukin-2. Subsidiary of Biotest-Serum-Institut GmbH, Germany.

Bristol-Myers Squibb Co

PO Box 4000, Princeton, NJ 08543-4000.
Tel: 609 252 5572 Fax: 609 252 6814

Major producer of antimicrobial products including cephalosporins, penicillins, mitomycin, kanamycin and tetracycline and bulk fermentation chemicals such as gluconic acid. Also supplies enzymes for use in antibiotic and drug manufacture. Has research agreement to market leukocyte, fibroblast and other interferons. Engaged in research on fermentation technology and genetic engineering. Products under development include cancer and viral vaccines as well as prosthetics, monoclonal antibodies and growth factors.

Bush Boake Allen Inc

7 Mercedes Drive, Montvale, NJ 07645.
Tel: 201 391 8441 Telex: 224255
Produces vitamins and a wide range of biochemicals.

Campbell Soup Co

Campbell Institute of Research and Development
Campbell Place, Camden, NJ 08103.
Tel: 609 342 4899
Major food company interested in use of novel breeding techniques for improvement of crop plants and disease-free tomatoes in particular, as well as improvements in mushroom production. Has a significant investment in DNA Plant Technology Corp, US.

Candace Lane Corp

140 Littleton Rd, Parsippany, NJ 07054.
Tel: 201 299 7699 Telex: 705359
Fax: 201 299 0670
Supply culture media.

Cel-Line Associates Inc

PO Box 648, 33 Gorgo Lane, Newfield, NJ 08344.
Tel: 609 697 4590/800 662 0973
Fax: 609 697 9728
Produce custom printed microscope slides.

Celgene Corp

7 Powderhorn Drive, Warren, NJ 07059.
Tel: 908 271 4192 Fax: 908 271 4184
Develops, manufactures and sells high purity chiral intermediates for the pharmaceutical and agrochemical industries. Performs custom chiral synthesis via proprietary 'cost-cutting' technology. Develops immunological drugs.

Cenogenics Corp

620 Rte 520, Morganville, NJ 07751.
Tel: 201 536 6457
Developing diagnostics.

Centrico Inc

100 Fairway Court, Northvale, NJ 07647.
Tel: 201 767 3900 Fax: 201 767 3416
Supplies industrial centrifuges for separation, clarification and extraction down to 0.5 micrometre.

Chemap Inc

111 D Corporate Blvd, PO Box 1011, South Plainfield, NJ 07080.
Tel: 908 757 7000 Fax: 908 757 7006
Supplies microbial and tissue culture fermenters (from laboratory to full production scale) with pH, oxygen, stirring and temperature control capabilities. Also supplies a range of stirred tank fermenters, continuous sterilizers, mechanical foam breakers and mixers.

Chemex Pharmaceuticals Inc

One Executive Drive, Fort Lee, NJ 07024.
Tel: 201 944 1449 Fax: 201 944 9474
Carry out R&D on novel dermatological drugs for skin diseases.

Chemical Design US Ltd

200 Rte 17 S, Suite 120, Mahwah, NJ 07430.
Tel: 201 529 3323 Fax: 201 529 2443
Produce computer systems and software for modelling the structure and properties of both small molecules and proteins, and studying their interactions.

Ciba-Geigy Corp

Pharmaceuticals Division
556 Morris Ave, Summit, NJ 07901.
Tel: 201 277 5000
Manufactures pharmaceuticals and plant protection chemicals. Research interests include aspects of the regulation of synthesis of proteins associated with protease activity in diseases of man. Has development agreements with Genentech, US for their new health care products, with Bio-response, US for recombinant proteins and with Kyowa Kakko Kogyo, Japan for recombinant gamma-interferon. Involved in the development of herbicide resistant crop plants. Products under development include vaccines (AIDS etc) and drug delivery systems. Subsidiary of Ciba-Geigy, Switzerland.

Cistron Biotechnology Inc

10 Bloomfield Avenue, Box 2004, Pine Brook, NJ 07058.
Tel: 201 575 1700/800 642 0167
Fax: 201 575 4854
Produces a line of lymphokines and ELISA kits which it sells to the research market worldwide. Is the exclusive licensee of the Auron et al Interleukin-1 beta (IL-1) patents and the Webb et al human plasminogen activator inhibitor (PAI-2) patent. Has granted a license under the IL-1 patents to Genetic Therapy Inc for the development of cancer treatments and to Du Pont for the sale of products to the research market. Biotech Australia Pty (a subsidiary of Hoescht) has taken a US License under the PAI-2 patents for the development of human therapeutics. In 1992, the company completed a dental study under a SBIR Phase I research grant to develop a 'chair-side' IL-1 assay to diagnose and monitor periodontal disease.

Clinical Sciences Inc

30 Troy Road, Whippany, NJ 07981.
Tel: 201 386 0030/800 526 0702
Telex: 136468 clinisci Fax: 201 515 9488
Develops, manufactures, and/or distributes immunodiagnostic test kits and bulk reagents. The products utilize radioimmunoassay (RIA), enzyme linked immunosorbent assay (ELISA), and fluorescent technologies for hepatitis, sexually transmitted diseases, the ToRCH panel and autoimmune conditions, and include veterinary products. Affiliated with Sorin Biomedica SpA, Italy.

Clonal Diagnostics Ltd

11 Franklin Avenue, Belleville, NJ 07109-3501.
Produces antibodies to antibiotics and peptide or protein human hormones including a kit for screening HCG. Joint venture with American Diagnostics, US.

Colla-Tec Inc

105 Morgan Drive, Plainsboro, NJ 08536.
Tel: 609 683 0900 Fax: 609 799 3297
Supply collagen matrices and films for cell culture and experimental studies. Offer services in collagen development.

Cozzoli Machine Co

401 East Third Street, Plainfield, NJ 07060.
Tel: 908 757 2040 Telex: 178007 cozzoli pnd
Fax: 908 757 7386
Manufactures packaging machinery for cleaning, filling and closing small glass, plastic and metal containers for the pharmaceutical industry.

CPC International

International Plaza, Englewood Cliffs, NJ 07632.
Tel: 201 894 2408
Manufacturing facilities: PO Box 345, Argo, IL 60501.
Tel: 312 458 2000
Manufactures glucose syrups, high-fructose corn syrup, fermentation ethanol and other corn-based products, including enzymes (amylglucosidase, cellulase etc).

CPG Inc

32 Pier Lane West, Fairfield, NJ 07004.
Tel: 201 882 1122 Fax: 201 882 0070
Manufacture controlled pore and magnetic pore glass as well as DNA synthesis products.

Cryofab Inc

540 N Michigan Ave, PO Box 485, Kenilworth, NJ 07033.
Tel: 908 686 3636/800 426 2186
Fax: 908 686 9538
Manufacture cryogenic equipment, both custom and standard, as well as a full line of accessories.

Cytogen Corp

600 College Road East, Princeton Forrestal Center, Princeton, NJ 08540.
Tel: 609 987 8200 Fax: 609 452 2975
Biopharmaceutical company engaged in the development of products for the targeted delivery of diagnostic and therapeutic substances directly to sites of cancer disease.

DNX Inc

303B College Rd E, Princeton, NJ 08540.
Tel: 609 520 0300 Fax: 609 520 9864
Developing therapeutic human proteins produced in transgenic species, genetic delivery systems, speciality chemicals, genetic toxicology screening models and anti-virals. Offer a microinjection and gene transfer service.

DRG International Inc

1167 US Highway 22, PO Box 1188, Mountainside, NJ 07092.
Tel: 908 233 2075 Telex: 178110 drg
Fax: 908 233 0758
Produces and supplies medical diagnostics and immunodiagnostics test kits for MTPL, EIA and RIA methods. Supplies membrane and magnetic particle separation systems for the purification of monoclonal and polyclonal antibodies, growth factors, hormones, enzymes etc. Produces monoclonal and polyclonal antibodies, provides immunodiagnostics and reagents, cell separation media, clinical controls, laboratory disposables and research products.

E Leitz Inc

Instrument Division
24 Link Drive, Rockleigh, NJ 07647.
Tel: 201 767 1100 Telex: 135356
Manufactures a range of tungsten carbide microtome knives.

E R Squibb & Sons Inc

PO Box 4000, Princeton, NJ 08540.
Tel: 609 921 4000

Manufacturing Division: PO Box 191, New Brunswick, NJ 08903.
Tel: 201 545 1300

Major manufacturer of pharmaceuticals including steroids and antibiotics (amphotericin, neomycins, nystatin, penicillins, tetracyclines and thiothrepton). Has joint company with Novo Industri AS, Denmark to market insulins produced by Novo.

EKATO Corp

19 Spear Rd, Bldg 202, Ramsey, NJ 07446.
Tel: 201 825 4684 Fax: 201 825 9776

Supply industrial fluid agitators and process engineering products.

EM Separations

Division of EM Industries Inc

480 Democratic Road, Gibbstown, NJ 08027.
Tel: 609 224 0742/ 800 922 1084
Fax: 609 423 4389

Supplies diagnostic instruments and reagents for hospitals, clinics and group practices including tentacle ion exchange bioseparation media.

Envirogen Inc

4100 Quakerbridge Rd, Lawrenceville, NJ 08648.
Tel: 609 936 9300 Fax: 609 936 9221

Evaluates, designs, tests and delivers cost-effective biological solutions to environmental waste management problems. Supplies in situ and ex situ treatment systems for VOCs, ground, surface and industrial process waters, and contaminated soils and sludges. Applications projects include the development of bioreactors for air toxics destruction; the design and application of novel bioreactors to treat non-chlorinated industrial solvents and petroleum wastes; the development of liquid and vapour phase biotreatment systems for TCE, vinyl chloride and dichloroethylene; multi-phased approaches to PCB bioremediation; and the construction, testing, and optimization of rationally designed microorganisms.

Enzon Inc

40 Kingsbridge Rd, Piscataway, NJ 08854-3998.
Tel: 908 980 4500 Fax: 908 980 5911

20 Kingsbridge Rd, Piscataway, NJ 08854-3998, 40 Cragwood Rd, South Plainfield, NJ 07080, 300C Corporate Court, South Plainfield, NJ 07080

Developing new and improved pharmaceuticals through their proprietary technology.

Enzyme Bio-Systems Ltd

600 Sylvan Ave, Englewood Cliffs, NJ 07632.
Tel: 201 894 2320 Fax: 201 894 4955

Produces industrial enzymes for starch, baking, flavour, brewing, cereal, confection and alcohol applications.

ES Industries

8 South Maple Avenue, Marlton, NJ 08053.
Tel: 609 938 3616/800 356 6140
Fax: 609 983 0588

Supplies accessories, columns, packing materials and fraction collectors for high performance liquid chromatography, gas chromatographs, process chromatographs, GC capillary columns and accessories.

Espec Corp

400 D, 1 Corporate Court, South Plainfield, NJ 07080-2498.
Tel: 201 753 5900/800 5 ESPECO
Telex: 550540 Fax: 201 753 3866

Manufacture controlled environment chambers and cabinets, incubators and ovens.

Ethicon Inc

Rte 22 West, Somerville, NJ 08876.
Tel: 201 218 0707

Produce growth factors. Subsidiary of Johnson & Johnson, US.

Eugene Tech International Inc

4 Pearl Court, Allendale, NJ 07401.
Tel: 201 825 1300

Developing powder antibodies for general research. Produces a vaccine for hepatitis-B, and interferon-alpha. A subsidiary of Cheil Sugar & Co, a member of the Samsung Group (Korea).

Exxon Research & Engineering Co

180 Park Avenue, Florham Park, NJ 07932.
Tel: 201 765 0100

Have extensive research and development programme in microbiology and enzymology including aspects of hydrocarbon conversion and biosynthesis as well as the structure and properties of microbial polysaccharides.

Exxon Research & Engineering Co

Corporate Research Science Laboratory
PO Box 45, Linden, NJ 07036.

Undertaking studies on metabolism of methane using bacteria.

Finn-Tech Industries Inc

7 Bay Ave, Dias Creek, Cape May Court House, NJ 08210.
Tel: 609 465 6552 Fax: 609 465 6752

Developing marine byproducts including *Limulus* amoebocyte lysate.

Forward Technology Research Laboratory Inc

22 Glenwood Avenue, Jersey City, NJ 07306.
Tel: 201 432 6211

Manufactures a chamber designed for use in the preparation of bimolecular lipid membranes in an essentially solvent-free form.

Frinton Laboratories Inc

PO Box 2428, Vineland, NJ 08360.
Tel: 609 692 6902 Telex: 834247
Fax: 609 692 6922

Offers a specialized service in the custom synthesis of research organic chemicals.

Getinge International Inc

1100 Towbin Avenue, Lakewood, NJ 08701.
Tel: 201 370 8800 Telex: 792466
Fax: 201 370 2543

Manufacture steam-based sterilizer systems designed for industrial or laboratory applications fitted with continuous monitoring and recording of load temperature including systems suitable for use at P3 and P4 levels of biohazard, systems for decontamination of spent media, and systems for sterilization of animal feed, bedding and cages. Other products include glassware washers, cage and rack washers and cart washers for research/animal applications.

Gibraltar Biological Laboratories Inc

23 Just Rd, Fairfield, NJ 07006.
Tel: 201 227 6882 Fax: 201 227 0812

Developing in vitro cell culture toxicity testing. Offer contract services in product safety and evaluation testing. Carrying out research on AIDS.

Glen Mills Inc

395 Allwood Road, Clifton, NJ 07012.
Tel: 201 777 0777 Fax: 201 777 0070

Markets a line of completely enclosed, autoclavable mills for continuous and batch cell disruption at rates of 1.0 to 1000 litres per hour, suitable for use with yeast, fungi and bacteria; a wide range of mills for size reduction of laboratory and industrial solids and slurries; sample splitters, dividers and riffles.

Globe Scientific Inc

610 Winters Ave, Paramus, NJ 07649.
Tel: 201 599 1400 Telex: 219744 icc
Fax: 201 599 1406

Supply a full range of disposable plastic labware including test tubes, containers, microcentrifuge tubes, pipettes, pipette tips, racks etc.

Goldmark Biologicals

437 Lock St, Phillipsburgh, NJ 08865.

Produces gold colloid-based stains for visualisation of membrane-bound DNA/RNA.

Gow-Mac Instrument Co

Kearney St, Bldg 26E, Bridgewater, NJ 08807.
Tel: 908 560 0600 Telex: 833174 lawmac
Fax: 908 271 2782

Supply equipment for gas chromatography and HPLC.

Haber Inc

470 Main Rd, Towaco, NJ 07082.
Tel: 201 263 0990

Developing methods of electrophoresis in non-aqueous solvents (electromolecular propulsion) for the separation and downstream processing of the products of gene manipulation and other proteins. Also developing clinical diagnostics and analytical techniques based on the same principle including products for determination of cardiovascular disease and blood lipoproteins.

Hacker Instruments Inc

PO Box 10033, Fairfield, NJ 07004.
Tel: 201 226 8450 Telex: 642769 hacker
Fax: 201 808 8281

Manufactures histologic and cytologic specimen slide preparation equipment including tissue processors and microtome cryostats.

Henley Chemicals Inc

50 Chestnut Ridge Road, Montvale, NJ 07645.
Tel: 201 307 0422 Telex: 232210 hnly ur
Fax: 201 307 0424

Supplies fine chemicals and biochemicals.

Heraeus Instruments Inc

111 A Corporate Blvd, South Plainfield, NJ 07080.
Tel: 908 754 0100/800 441 2554
Fax: 908 754 9494

Supply centrifuges, rotors and accessories, gassed incubators, microbiological incubators, vacuum ovens and drying ovens.

Hoechst Celanese Corp

206 North Route 202, Somerville, NJ 08876.
Tel: 201 231 2000

Separations Products Division: 13800 South Lakes Drive, Charlotte, NC 28217.
Tel: 704 588 5310

Produces pharmaceuticals and diagnostics as well as digestive enzymes and microporous membranes for separation technologies. Carrying out microbiological research (see American Hoechst, US).

Hoechst-Roussel AgriVet Co

Rte 202-206 N, Somerville, NJ 08876.
Supply veterinary diagnostics.

Hoffmann-La Roche Inc

The Roche Institute of Molecular Biology

340 Kingsland Street, Nutley, NJ 07110.
Tel: 201 235 4996 Fax: 201 235 2906

Research company creating pharmaceutical, agricultural and industrial products through genetic engineering technologies. Involved in protein purification and characterization, bacterial and yeast genetic engineering, immunogenetics, agricultural microbiology and mammalian gene isolation and characterization. Cloning and expression of DNAs, protein and peptide purification, amino acid sequence analysis, immunodetection techniques and monoclonal antibody production are also being investigated. Also have interest in sweeteners and pesticides. Developing therapeutic chimeric antibodies against HIV and HIV-1, human T-cell and leukemia virus. Have joint venture with Epitope Inc, US to develop virus targeting HIV mouse monoclonal antibodies for diagnostic and other in vitro non-therapeutic uses.

Human Genetic Mutant Cell Repository

Coriell Institute for Medical Research

Copewood & Davis Sts, Camden, NJ 08103.
Tel: 609 966 7377

Distributes cell cultures from individuals with genetic abnormalities. Sponsored by NIH, US.

I-Stat Corp

formerly Integrated Ionics Inc

303 College Rd East, Princeton, NJ 08540.
Tel: 609 243 9300

Developing medical diagnostics, probes and systems based on advanced test procedures using sensors incorporating enzymes and antibodies.

IGI Inc

2285 E Landis Ave, Vineland, NJ 08360.
Tel: 609 691 2411 Telex: 244432
Fax: 609 691 1177

Supplies animal health and breeding products including vaccines, pharmaceuticals, feed supplements and diagnostics.

Immunomedics Inc

300 American Rd, Morris Plains, NJ 07950.
Tel: 201 605 8200/800 327 7211
Fax: 201 605 8282

A biopharmaceutical company applying antibody-based technology to the development of products for the improved detection and treatment of cancer and infectious diseases. Products are based on highly specific monoclonal antibodies designed to deliver radioisotopes, chemotherapeutic agents or toxins to tumours and sites of infection.

Independent Equipment Corp

5 Johnson Drive, PO Box 130, Raritan, NJ 08869-0130.

Tel: 908 526 1001 Fax: 908 526 7886

Provides custom-engineered systems for pollution control projects. Specializing in activated carbon systems and services. Distributor for major brands of spill cleanup and other pollution control products.

Institute for Health Care Business Development

400 Plaza Drive, Secaucus, NJ 07094.
Tel: 201 223 0611 Fax: 201 223 0710

Offers a business development direct marketing service and consultancy services in strategic planning and business development. Publisher of the 'Health Care Acquisition, Technology Transfer, Licensing and Sources of Capital Directory'.

Institute for Medical Research

Human Genetic Mutant Cell Repository

Copewood & Davis Streets, Camden, NJ 08103.
Tel: 609 966 7377

Distributes cell cultures from individuals with genetic abnormalities. Sponsored by the National Institutes of Health, US.

Instrument Marketing Services Inc

Laboratory Equipment Division

1415 Park Ave, Hoboken, NJ 07030.
Tel: 201 792 2400 Telex: 126493
Fax: 201 792 1837

Manufacture glove boxes.

Instruments SA Inc

JY Optical Systems

6 Olsen Ave, Edison, NJ 08820-2419.
Tel: 201 494 8660 Telex: 844516
Fax: 201 494 8796

Manufacture fluorescent, infrared and UV/VIS spectrophotometer accessories.

Interchem Corporation

120 Route 17 North, Paramus, NJ 07652.
Tel: 201 261 7333 Fax: 201 261 7339

Develop, produce and market a range of pharmaceutical products.

Interferon Sciences Inc

783 Jersey Avenue, New Brunswick, NJ 08901.
Tel: 201 249 3250/800 255 1500
Telex: 910 997 0024 Fax: 201 249 6895

Specializes in manufacture and purification of interferon as well as production of conventional and monoclonal antibodies. Carrying out research on hybridoma and recombinant DNA technology for production of human interferons, IF-A and IF-G. Subsidiary of National Patent Development Corp, US.

J T Baker Inc

222 Red School Lane, Phillipsburg, NJ 08865.
Tel: 908 859 2151/800 JT BAKER
Telex: 299514 Fax: 908 859 9318

Supplies a wide range of chemical reagents and laboratory products to the biotechnology market, including USP/ACS salts, ultrapure bioreagents, high purity solvents and biochromatography products. Capabilities include: ISO 9001, GMP facilities; customized packaging and specifications; and testing to foreign standards (EP, BP, DAP and PJ).

Janssen Pharmaceutica/Life Science Products

40 Kingsbridge Road, Piscataway, NJ 08854.
Tel: 201 524 9152/800 624 0137

Telex: 490 999 9544 Fax: 201 524 9215

Markets products for immunodiagnostics, biochemistry, cell biology and biotechnology including: T and B cell markers; human IgG subclass reagents; neoantigen; biotinylated DNA probes; allotype determinants; rat and mouse anti-monoclonals; normal and standard sera; cytokines and their antisera (interleukin 1-6); growth factors; enzymes (cholesterol dehydrogenase, amylase etc); complex carbohydrates; hybridoma growth factor; venoms and toxins; protein A and G; lactoferrin and lactoperoxidase; restriction endonucleases; DNA primers and standards; kits for molecular biology - all products of Janssen Biochimica, Belgium.

John Brown E&C

100 Oak Way, Berkeley Heights, NJ 07922.
Tel: 908 665 0100 Telex: 23 275326

Fax: 908 665 0122

(see John Brown, IL).

Johnson & Johnson Inc

One Johnson & Johnson Plaza, New Brunswick, NJ 08903.

Tel: 908 524 3851 Fax: 908 524 6377

Manufactures pharmaceuticals, diagnostics and other health care products. Manufactures monoclonal antibodies for use in research applications through Ortho Pharmaceutical Co, US and similar products for clinical use through Ortho Diagnostic Systems, US. Has collaborated with McDonnell Douglas Corp, US in developing methods for manufacturing drugs in the NASA space shuttle. Has an investment interest in Bio Logicals Inc, Canada. Markets a non-isotopic DNA probe for a herpes confirmation test and is developing similar probes for gonorrhoea, tuberculosis, human papilloma virus and pneumonia in collaboration with Enzo Inc, US.

Johnston Associates Inc

181 Cherry Valley Rd, Princeton, NJ 08540.
Tel: 609 924 3131 Fax: 609 683 7524

Seed capital investment company. Co-founders of Genex Corp. Founders of Cytogen Corp, Ecogen Inc, Sepracor Inc, I-Stat Corp, Immunicon Inc, Envirogen Inc, Biocyte Corp and SEQ Ltd, all US companies.

Kabi Pharmacia Diagnostics Inc

800 Centennial Avenue, Piscataway, NJ 08854.
Tel: 908 457 8000/800 346 4364
Fax: 908 457 8010

Supplies in vitro allergy diagnostics. Products include the new Pharmacia CAP system, RAST paper disc technology and Research Forum products. Supplies an extensive line of infectious disease and autoimmune test kits.

Kimble/Kontes Biotechnology

1022 Spruce Street, PO Box 729, Vineland, NJ 08360.

Tel: 609 692 8500/800 223 7150
Fax: 609 692 3242

Produces chromatography columns, HPLC mobile phase systems, autosampler vials, tissue grinders and cell culture glassware.

Part II New Jersey — NJ UNITED STATES OF AMERICA

Kingston Diagnostics

2235-B Route 130, Dayton, NJ 08810.
Tel: 201 274 2288

Develops in vitro human diagnostics. A subsidiary of Kingston Technologies.

Kratos Analytical Inc

535 East Crescent Drive, Ramsey, NJ 07446.
Tel: 201 825 7500 Telex: 6853505
Fax: 201 825 8659

Manufactures high resolution, automated GCMS and LCMS systems. Products also include peptide sequencing software for SUN workstations.

The Liposome Company Inc

1 Research Way, Princeton Forrestal Center, Princeton, NJ 08540.
Tel: 609 452 7060 Telex: 882085
Fax: 609 452 1890

Dedicated exclusively to the development of liposome and lipid-based pharmaceuticals, selectively develop proprietary parenteral pharmaceuticals for the treatment and diagnosis of life-threatening illnesses. Their most advanced products treat cancer and serious bacterial and fungal infections in immunocompromised patients such as those with cancer or AIDS.

Liposome Company Inc

1 Research Way, Princeton Forrestal Ctr, Princeton, NJ 08540.
Tel: 609 452 7060 Fax: 609 452 1890

Develops and supplies therapeutics for cancer and infectious diseases, antibiotics, vaccines, liposomes, therapeutic delivery systems and diagnostics.

LSL Biolafitte Inc

Alexander Commerce Park, 719 Alexander Road, Princeton, NJ 08540.
Tel: 609 452 7660 Fax: 609 452 7667

Supplies a full range of integrated biotechnology equipment from bench top to production scale, including fermenters and mammalian cell culture systems from 2 to 10,000 litres, freeze dryers, crossflow filtration systems and computer software for data logging and control systems for all of the above.

Lurex Scientific

PO Box 2420, S Vineland, NJ 08360.

Supplies analytical equipment and apparatus for cell culture including tissue homogenizers.

Madis Laboratories Inc

375 Huyler Street, South Hackensack, NJ 07606.
Tel: 201 440 5000 Fax: 201 342 8000

Supplies proteases in bulk for industrial use.

Makari Research Laboratories Inc

223 South Dean St, Englewood, NJ 07631.
Tel: 201 871 3244

Manufactures diagnostics for a proprietary intradermal test for the early detection of cancer and cancer recurrence even at the pre-clinical phase, a cancer immune surveillance test and monoclonal antibodies for detection of cells undergoing division as well as novel immunotherapeutic agents for prevention of cancer recurrence following surgical removal and treatment of cancer even at an advanced stage.

Marcor Development Corp

108 John Street, Hackensack, NJ 07601-4130.
Tel: 201 489 5700 Fax: 201 489 7357

Supplies bulk reagents for microbial culture media, fermentation nutrients, protein hydrolyzates, peptones and yeast extracts.

Margaronics Inc

197 Rues Lane, East Brunswick, NJ 08816.
Tel: 908 257 1527 Fax: 908 390 3335

Developing saltwater cultured pearl technology in Latin America. Supply oyster and other mollusc shell proteins including conchiolin.

Matheson Gas Products

30 Sea View Drive, Secaucus, NJ 07096.
Tel: 201 867 4100
Telex: 4245467110 992 8826 Fax: 201 867 4572

Produce a range of speciality gas equipment including gas cylinder cabinets, membrane gas filters, gas pressure regulators etc, as well as gas standard mixtures and speciality gases, and toxic gas and other detectors.

Medarex Inc

12 Chambers St, Princeton, NJ 08542.
Tel: 609 921 7121 Fax: 609 921 7450

Developing therapeutics and diagnostics based on monoclonal antibodies. Supply purified and FITC-labelled Fc receptor and myeloid monoclonal antibodies for research use.

Medi-Physics Inc

P.O. Box 289, 140 E. Ridgewood Ave., Paramus, NJ 07652.
Tel: 201 599 8900

Produces diagnostics, therapeutics, MAbs and radiopharmaceutical products. A subsidiary of Hoffmann-La Roche (Switz).

Medical Technology Corp

71 Veronica Ave, PO Box 218, Somerset, NJ 08875-0218.
Tel: 908 246 3366/800 526 2125
Fax: 908 246 0570

Produce microbiological and viral test kits.

Medical Wire & Equipment Co (USA)

Hamilton Business Park, Unit 9B, Franklin Rd, Dover, NJ 07801.
Tel: 201 361 0225/800 321 3244
Fax: 201 361 0703

Supply culture media, sera and equipment for cell and tissue culture, autoclaves and test kits.

Medimatrix

601 Ewing St., Suite B7, Princeton, NJ 08540.
Tel: 609 497 3911

Developing wound dressings containing growth factors. A subsidiary of Applied Biomedical Systems.

Meditech Diagnostic Systems Inc

1305 Fulton St, Rahway, NJ 07065.
Tel: 908 381 1300 Fax: 908 381 1303

Establish and manage physician office laboratories as well as marketing automated chemistry and haematology laboratory management systems and reagents.

Meer Corp

9500 Railroad Avenue, North Bergen, NJ 07047.
Tel: 201 861 9600 Telex: 128290

Produces flavour extracts and water-soluble gums from plant sources: proteolytic enzymes, stabilizers and emulsifiers, natural colours, natural flavours and flavour enhancers, botanical products and extracts and water soluble gums as well as custom processing: spray drying, extracting and milling.

Membrex Inc

155 Route 46 West, Fairfield, NJ 07004.
Tel: 201 575 8388 Fax: 201 575 7011

Develops, manufactures and sells high performance membrane-based systems for processing and purifying biological materials, incorporating proprietary non-fouling membranes and vortex flow filtration (VFF) technology. Current product lines include VFF systems which utilize high performance ultrafiltration and microfiltration membranes.

Merck & Co Inc

Merck Sharp & Dohme Research Laboratories
PO Box 2000, Rahway, NJ 07065.
Tel: 201 574 4000 Fax: 201 574 4720

Manufactures pharmaceuticals, bacterial polysaccharides, vitamins and antibiotics, as well as bacterial and viral vaccine antigens. Also produces wide range of fine chemicals and research materials. Using genetic engineering and peptide/protein chemistry techniques in relation to improved therapeutics and vitamins, as well as for production of vaccines. Has joint venture with Chiron, US to market hepatitis B vaccine. Other products under development include veterinary drugs and pesticides and an AIDS vaccine.

Mettler Instrument Corp

PO Box 71, Princeton-Hightstown Rd, Hightstown, NJ 08520-0071.
Tel: 609 448 3000/800 METTLER
Telex: 7607376 mico Fax: 609 586 5451

Manufactures a wide range of analytical and precision balances as well as other laboratory instruments including titrators, Karl Fisher apparatus, thermogravimetric systems, thermal analysis equipment, reaction calorimeters -automated, rotational viscometers and density meters.

Nametre Co

101 Forest St, Metuchen, NJ 08840.
Tel: 201 494 2422

Manufactures automatic, process and laboratory viscometers.

National Diagnostics Inc

1013-1017 Kennedy Blvd, Manville, NJ 08835-2031.
Tel: 908 722 8600/800 526 3867
Fax: 908 722 8641

Manufactures chemicals and reagents for use with laboratory instrumentation, including liquid scintillation, histology and electrophoresis. Electrophoresis apparatus and liquid scintillation counting systems, probes, power supplies and biological stains also supplied.

National Patent Development Corp

783 Jersey Avenue, New Brunswick, NJ 08901.
Tel: 201 249 3232

Working on production of interferon by genetically engineered yeast through a joint agreement with Collaborative Genetics Corp, US as well as through its subsidiary Interferon Sciences Inc, US.

NESLAB Instruments Inc

8 Ilene Court, Suite 1, Belle Mead, NJ 08502.
Tel: 908 281 0127 Fax: 908 281 0627

Manufacturer of constant temperature bath/circulators, immersion coolers, personal freezers and recirculating chillers.

New Brunswick Scientific Co Inc

PO Box 4005, 44 Talmadge Rd, Edison, NJ 08818.
Tel: 201 287 1200/800 631 5417
Telex: 4753012 Fax: 201 287 4222

Manufactures a wide range of research and commercial systems for growth and separation of cells used in the production of enzymes, chemicals, vaccines and other pharmaceuticals. Products include biological shakers, bioreactors, fermenters and process control equipment as well as media sterilizing and dispensing systems, air samplers, tissue culture roller drums and continuous centrifuges.

New Jersey Center for Advanced Biotechnology and Medicine

675 Hoes Lane, Room R115, Piscataway, NJ 08854.
Tel: 201 463 4665 Fax: 201 463 4850

Promotes the health-related products industry and research universities in the state and furthers links between them. Major areas of interest include molecular pharmacology, molecular genetics, DNA synthesis, biomaterials, cell and developmental biology, structural biology, bioimaging, a hybridoma laboratory, cell sorting/flow cytometry, molecular biology computing and protein microchemistry.

New Jersey Institute of Technology

Department of Electrical Engineering

323 High Street, Newark, NJ 07102.
Tel: 201 645 5321

Studying theoretical aspects of bioenergy conversion using a fuel cell to produce electricity from steam reformed biogas obtained from anaerobically digested refuse.

New Jersey Medical School

Department of Microbiology and Molecular Genetics

185 South Orange Ave, Newark, NJ 07103.
Tel: 201 982 4483

Carrying out genetic analysis in eukaryotic cells by means of gene transfer, microcell hybrids for gene mapping in human tumour cells and formation of clone libraries of human chromosomes, development of immortal human cell lines, molecular analysis of gene expression, mutagenesis, DNA replication and chromosome segregation.

Norton Co

Performance Plastics Division

150 Dey Rd, Wayne, NJ 07470.
Tel: 201 696 4700 Fax: 201 696 4056

Produces biocompatible, flexible tubing; inert fluoropolymer tubing, fittings and valves; Teflon labware; and Teflon filters with pore sizes ranging from 1 micron to 60 microns.

OEM Concepts Inc

1889 Route 9, Unit 96, Toms River, NJ 08755.
Tel: 908 341 3570 Fax: 908 286 3173

400 W Cummings Park, Suite 3950, 410, Woburn, MA 01801, 1141 Holland Dr, Unit 5, Boca Raton, FL 33487

Produce affinity purified antibodies for use in determining leakage from columns during purification of monoclonal antibodies. Manufacture and distribute MAbs and polyclonal antibodies to drugs, hormones, tumor markers and infectious diseases. Also offer ELISA protocols and HRP alkaline phosphatase and biotin conjugates.

Ohaus Corp

29 Hanover Road, Florham Park, NJ 07932.
Tel: 201 377 9000/800 672 7722
Telex: 136518 Fax: 201 593 0359

Manufactures and supplies a wide range of electronic balances based on microprocessor electronics, weighing in grams, ounces or pennyweights. Some models permit select parts counting. Portable units with long battery life are available.

Ortho Biotech

R W Johnson Pharmaceutical Research Institute
Rte 202, PO Box 300, Raritan, NJ 08869.
Tel: 908 704 1500 Fax: 908 526 4997

Develop, manufacture and market products to prevent tissue rejection in renal, heart and liver transplants.

Ortho Diagnostic Systems Inc

US Rte 202, PO Box 300, Raritan, NJ 08869.
Tel: 201 218 1300/800 322 6374
Fax: 201 218 8582

Produces and markets immunodiagnostic kits for infectious diseases, fluorescent antibody systems, monoclonal antibodies, blood group reagents, antisera, haemostasis reagents and instrumentation. Subsidiary of Johnson and Johnson Inc, US.

Ortho Pharmaceutical Co

Route 202, Raritan, NJ 08869.
Tel: 201 218 6000

Manufactures a wide range of pharmaceutical and other biological products such as antifungal drugs, antiseptic preparations and monoclonal antibodies including murine antibodies used in the identification of human T and B cells. Instruments for clinical use include computerized cell sorters and analyzers. Developing therapeutics and diagnostics including immuno-modulator for HIV infection, erythropoietin, interleukin-2, cancer monoclonal antibodies, hepatitis B vaccine, drug delivery systems and home pregnancy tests. Subsidiary of Johnson & Johnson Inc, US.

Ortho-mune Monoclonal Antibody

Route 202, Raritan, NJ 08869.
Tel: 201 218 1300/800 631 5807
Telex: 2527098 Fax: 201 218 8582

Produces monoclonal antibodies to human antigens. Division of Ortho Diagnostic Systems Inc.

PA Consulting Group

279 Princeton Rd, Hightstown, NJ 08520.
Tel: 609 426 4700 Telex: 247332
Fax: 609 426 4046

International management and consulting services in development of advanced technology products, processes and computer systems.

Penta Manufacturing Co

50 Okner Parkway, Livingston, NJ 07039.
Tel: 201 740 2300 Telex: 219472 rca
Fax: 201 740 1839

Manufactures research biochemicals and solvents as well as speciality and fine chemicals, pharmaceutical intermediates and flavour and fragrance compounds. Division of Penta International Corp, US.

PeproTech Inc

Princeton Business Park, 5 Crescent Avenue, G2, PO Box 275, Rocky Hill, NJ 08553.
Tel: 609 497 0253 Fax: 609 497 0321

Sales and Marketing Office, 2184 Washington Street, Suite 2, Canton MA 02021.
Tel: 617 821 0661 Fax: 617 821 0313

Develop and produce a wide range of human and murine recombinant growth factors, cytokines and interleukins as well as their respective monoclonal and polyclonal antibodies.

The Perry Group of Companies

Perry Equipment Co Inc

25 Mt Laurel Rd, Hainesport, NJ 08036.
Tel: 609 267 1600 Telex: 845397 perry hain
Fax: 609 267 4499

Headquarters of international dealers of used machinery and equipment for the process industries.

Pharmacia Biosensor

800 Centennial Ave, Piscataway, NJ 08855-1327.
Tel: 800 BIA 2599 Fax: 908 457 8246

Market a biosensor-based analysis system for real-time monitoring of biomolecular reactions.

Pharmacia Biotech Inc

PO Box 1327, 800 Centennial Avenue, Piscataway, NJ 08855-1327.
Tel: 908 457 8000/800 526 3593
Fax: 908 457 0557

Distribute products for separation and molecular biology. Products include liquid chromatography and FPLC systems, gel filtration, ion exchange and affinity chromatography media, complete systems and accessories for all electrophoresis techniques, automated DNA synthesizers and sequencers, centrifugation media and biochemicals, as well as chromatographs, custom made media, micro-carriers for cell culture and a comprehensive range of reagents for molecular biology including enzymes, cloning vectors, nucleotides, oligonucleotides and gene synthesis systems. Subsidiary of Pharmacia Biotech AB, Sweden.

Pharmagenics Inc

4 Pearl Ct, Allendale, NJ 07401.
Tel: 201 818 9110 Fax: 201 818 9044

Developing oligonucleotide-based therapeutics and tumor suppressing genes.

Philips Electronic Instruments Co

85 Mackee Drive, Mahwah, NJ 07430.
Tel: 201 529 3800 Telex: 642351

Manufactures a wide range of analytical equipment and associated data collecting, processing and visualizing systems including scanning and transmission electron microscopes and X-ray spectrometers.

Part II New Jersey — NJ UNITED STATES OF AMERICA

Photon Technology International Inc

1 Deerpark Drive, Suite F, South Brunswick, NJ 08852.
Tel: 908 329 0910 Fax: 908 329 9069

Manufactures fluorescence spectroscopy systems for steady-state fluorescence, fluorescence lifetime measurement and intracellular ion measurement using ratio fluorescence techniques. Also available are optical components, including light sources, lasers, monochromators, light detection systems and tool for fluorescence microscopy.

Physitemp

154 Huron Ave, Clifton, NJ 07013.
Tel: 201 779 5577 Fax: 201 779 5954

Manufacture and supply a wide range of thermometers, thermocouple sensors including implantable needle probes, thermal stages for microscopes, monitoring thermometers with computer interface, strip chart recorders and freezing stages for microtomes.

Pitman-Moore Inc

Rte 579 & Postley Drive, Washington Crossing, NJ 08560.
Tel: 609 737 3700

Supply veterinary diagnostics.

Pragma Bio-Tech

225 Belleville Ave, Bloomfield, NJ 07003.
Tel: 201 748 8624

Offers various services in Phase I-IV clinical trials for the pharmaceutical, diagnostic and cosmetic industries.

Princeton Instruments Inc

3660 Quakerbridge Rd, Princeton, NJ 08619.
Tel: 609 587 9797 Fax: 609 587 1970

Products include Raman, UV and UV/VIS and rapid scan spectrophotometers, supercritical fluid chromatography detectors, X-ray detectors, image analyzers and intensifiers, chromatography detectors and optical spectrum analyzers. Also supply a complete line of microscope cameras.

Princeton Polymer Laboratories

521 LeHigh Ave, Union, NJ 07083.
Tel: 609 687 7033 Fax: 908 687 1147

Developing biopolymers for use in biomass, agricultural and chemical industries. Products under development include chitosan.

Prodex Inc

PO Box 7064, 3490 US 1, Princeton, NJ 08543.
Tel: 609 275 5975 Fax: 609 452 8345

Develops and markets chitin and chitosan derivatives for a variety of medical and surgical applications. Products include hemostats and wound dressings.

Quality Biotech Inc

1667 Davis St, Camden, NJ 08104.
Tel: 609 966 1305/800 622 8820
Fax: 609 342 8078

Provides biosafety testing services performed in strict compliance with all regulatory guidelines: establishment and characterization of mammalian cell banks including detection of adventitious agents (e.g., viruses, mycoplasma), genetic analysis, tumorigenicity studies; validation of purification processes for removal/inactivation of viruses, DNA, mycoplasma, endotoxin; and final product analysis. Also offers protocols for gene therapy testing.

Quantix Systems

2611 Branch Pike, Cinnaminson, NJ 08077.
Tel: 609 786 3080/800 322 5487
Telex: 750493 Fax: 609 786 9608

Developing simple on-site diagnostic systems based on immunoassay technology. Products detect pesticide residues and environmental contaminants in soil and water. The systems are accurate, sensitive, quantitative and user friendly. Joint venture between DNA Plant Technology and Union Carbide Chemicals and Plastics Company.

R P Cargille Laboratories Inc

55 Commerce Road, Cedar Grove, NJ 07009-1289.
Tel: 201 239 6633 Fax: 201 239 6096

Manufactures refractive index standards and sets, immersion liquids, mounting media, custom liquids for optical engineering, fibre optics and laser coupling/interfaces liquids. Offers consulting, R&D, testing and calibration services.

Research Devices Inc

121 Ethel Rd W, Piscataway, NJ 08854.
Tel: 908 572 4800 Telex: 467058
Fax: 908 572 4808

Manufacture microscopes.

Research Diagnostics Inc

Pleasant Hill Rd, Flanders, NJ 07836.
Tel: 201 584 7093 Fax: 201 584 0210

Distributes immunochemicals produced by Janssen Biotech and Janssen Biochemica (Belgium). Developing clustered monoclonal antisera for flow cytometry.

Research Plus Inc

PO Box 324, Bayonne, NJ 07002.
Tel: 201 823 3592/800 341 2296
Fax: 201 823 9590

Manufactures steroids and peptides, sugar derivatives, biological buffers etc. Products include testosterone and its derivatives, corticosterone, cortisone, stigmasterol and other sterols, biologically active peptides, peptide intermediates and building blocks, peptide substrates for enzymes, somatostatin etc.

Rhone-Poulenc Research Center

Box CN 5266, Princeton, NJ 08543.

Carrying out research on proteins, antibodies and immobilized enzymes.

Roche Diagnostic Systems

1080 US Highway 202, Branchburg, NJ 08876-1760.
Tel: 908 253 7200/800 526 1247
Fax: 908 253 7652/7646

Supply analyzers, culture media, immunology reagents for EIA and RIA as well as test kits, for therapeutic drug monitoring etc. Subsidiary of Hoffman-La Roche, US.

Romark Diagnostics

123 Patterson Road, Hillsdale, NJ 07642.
Tel: 201 664 1380/800 GLUCOSE
Fax: 201 664 5578

Supply semi-automated and other analyzers, ion-selective electrodes, reagents and diagnostic test kits for clinical assays.

Roussel Corp

400 Sylvan Avenue, Englewood Cliffs, NJ 07632.
Tel: 201 871 3366 Telex: 423187
Fax: 201 871 7704

Manufactures steroids, including testosterone and its derivatives, prednisone, prednisolone, hydrocortisone etc, as well as vitamins (cyanocobalamin, cholecalciferol and ergocalciferol), antibiotics and antidiabetics.

Rutgers University

Department of Plant Science

Blake Hall, Cook College, New Brunswick, NJ 08903.

Studying disease resistance in hybrid progenies of peach, with selection and preservation of existing peach germplasm.

Rutgers University

Department of Biochemistry and Microbiology

Cook College, New Brunswick, NJ 08903.

Tel: 201 932 9829

Developing methods of preparing cellulases with high activity from fungi such as *Trichoderma reesei* as well as use of mutagens and recombinant DNA technology to produce improved strains of both *T reesei* and *Zymomonas* for the production of ethanol.

Rutgers University

Department of Environmental Science

Cook College, New Brunswick, NJ 08903.

Tel: 201 932 8165

Developing composting systems for treatment of wastes.

Rutgers University

Agricultural Molecular Biology Center

PO Box 231, Cook College, New Brunswick, NJ 08903.

Tel: 201 932 8165 Fax: 201 932 6535

Supports biomolecular research and training in agriculture and biotechnology locally as well as technology transfer.

The Salzman Corporation

1275 15th Street, Suite 16P, Fort Lee, NJ 07024.
Tel: 201 224 5406 Fax: 201 224 5642

Supplies highly purified blood serums for use in cell culture, growth media and diagnostic assays, including foetal bovine serum, for pharmaceutical, vaccine and research use. Also supplies animal cells and tissues and culture media.

Sandoz Inc

59 Route 10, East Hanover, NJ 07936.
Tel: 201 503 7500

Produces a wide range of pharmaceutical products. Also manufactures microbial pesticides based on *Bacillus thuringiensis*. Other interests include crop improvement (corn), cancer therapeutics, kidney plasminogen activator and colony stimulating factor, an immuno-modulator for AIDS and related diseases. Subsidiary of Sandoz AG, Switzerland.

Sani-Tech Inc

PO Box 1010, Andover, NJ 07821.
Tel: 201 579 1312 Fax: 201 579 3908

Manufactures high purity (sanitary) processing systems and flexible tubing.

Sanki Laboratories Inc

520 Fellowship Rd, Suite D-406, Mt Laurel, NJ 08504.
 Tel: 609 231 4496 Fax: 609 231 4599
 Supply equipment for liquid chromatography.

Schering-Plough Corp

1011 Morris Ave, Union, NJ 07083.
 Tel: 800 631 7952

PO Box 526, Kenilworth, NJ 07033.
 Tel: 201 709 2600 Tx: 6719534

Manufactures antibiotics such as sisomicin and gentamicins (including garamycin, a brand of gentamicin sulphate designed for tissue culture work), steroids and bulk chemicals including dihydroxyacetone. Developing immuno-modulators for AIDS related diseases, alpha, beta and gamma-interferon production, and aerosol delivery methods. Also owns DNAX Ltd, UK, an immunology and genetic engineering company. Has joint ventures in the application of genetic engineering to plant systems and therapeutics including Genex, Biogen, Collagen Corp and Cetus, US.

Schweizerhall Inc Corp

formerly Chemical Dynamics Inc

10 Corporate Place S, Piscataway, NJ 08854.
 Tel: 908 981 8200/800 243 6564
 Telex: 4754581 susa Fax: 908 981 8282

Manufactures and supplies biochemicals, biological buffers, pharmaceutical intermediates etc including thermostable enzymes. Specializes in amino acid derivatives, peptides and diagnostic reagents.

Scientific Instruments & Technology Corp

PO Box 6906, Piscataway, NJ 08854.
 Tel: 908 536 1550 Fax: 908 536 9179

Market microbiological reagents and media petri dishes.

SciMedx Corp

400 Ford Road, Denville, NJ 07834.
 Tel: 201 625 8822/800 221 5598
 Telex: 4930966 bio Fax: 201 625 8796

Produces test kits for diagnosis of autoimmune, infectious diseases, virology and immunofertility in humans. Offers services in custom antiserum production, fractionation, conjugation to enzymes and fluorochromes as well as custom frozen tissue section slides.

Sclavo Inc

5 Mansard Court, WAYne, NJ 07470.
 Tel: 201 696 8300/800 526 5260
 Telex: 130719 sclaus Fax: 201 831 1208

Supply human vaccines, tuberculin tests, reagents and systems for diagnostic use.

Sera-Tec Biologicals

525 Milltown Rd, North Brunswick, NJ 08902.
 Tel: 201 846 6800 Telex: 844444

Produces bulk antisera.

Serva Biochemicals Inc

50 A&S Drive, Paramus, NJ 07652.
 Tel: 201 967 5900/800 645 3412
 Telex: 275658 serv Fax: 201 967 8858

Offers a variety of biochemicals for industrial and laboratory use in separations technology. Products include ampholytes, polyacrylamide gels and a complete line of electrophoresis reagents, adsorbents and columns for HPLC and liquid chromatography, caesium chloride and collagenase for use in tissue digestion.

Siemens Allis Inc

Analytical Systems
 One Computer Drive, Cherry Hill, NJ 08034.
 Tel: 609 424 9210 Telex: 845166
 Produce advanced analytical X-ray instrumentation.

Sonnatek Inc

27 Natmark Court, Woodcliff Lake, NJ 07675.
 Tel: 201 573 1201 Telex: 592516
 Fax: 201 573 0754

Supplies gel permeation chromatography calibration standards and fine research chemicals including custom synthesis.

Sybron Chemicals Inc

Biochemical and Environmental Division
 Birmingham Rd, PO Box 66, Birmingham, NJ 08011.
 Tel: 609 893 1100 Fax: 609 894 8641

Supplies selectively-adapted bacterial cultures for treatment of industrial and municipal wastewater, municipal collection system and contaminated soil and ground water. Subsidiary of Sybron Chemicals, US.

Synaptic Pharmaceutical Corp

215 College Rd, Paramus, NJ 07652.
 Tel: 201 261 1331 Fax: 201 261 0623

Developing safer and more effective medications through the application of its neuroreceptor technologies.

Techne Inc

3700 Brunson Pike, Princeton, NJ 08540-6192.
 Tel: 609 452 9275/800 225 9243
 Fax: 609 987 8177

Manufactures stirring systems for the cultivation of cells suitable for the production of hybridomas and monoclonal antibodies as well as other laboratory equipment including dry controlled temperature baths, hybridization ovens and thermal cyclers.

Technogenetics Inc

237 W Parkway, PO Box 294, Pompton Plains, NJ 07444-0294. Telex: 882495

Developing and marketing monoclonal antibodies for immunocytology and human diagnostic kits including systems for the detection of IgM immunoglobulin in people infected by AIDS.

Thomas Scientific

99 High Hill Rd, Swedesboro, NJ 08085.
 Tel: 609 467 2000 Telex: 6851166
 Fax: 609 467 3087

Supplier of temperature cyclers, hybridization and electrophoresis equipment, chromatography supplies and other products for biotechnology laboratories.

Unigene Laboratories Inc

110 Little Falls Road, Fairfield, NJ 07004.
 Tel: 201 882 0860 Fax: 201 227 6088

Has developed a patented manufacturing technology to produce large quantities of amidated peptide hormones at "significant cost and time savings." Is constructing a GMP manufacturing facility for the production of calcitonin, a treatment for osteoporosis. Is working to develop a calcitonin pill and is seeking licensing agreements for its technology.

US Services Inc

19 Ox Bow Lane, Summit, NJ 07901.
 Tel: 908 273 0440 Fax: 908 273 0449
 Supplies stable isotopes for research.

Vanguard International Inc

1111 A Green Grove Road, PO Box 308, Neptune, NJ 07754-0308.
 Tel: 908 922 4900/800 922 0784
 Fax: 908 922 0557

Supplies electronic and manual pipetters, cryogenic vials and storage accessories, sterile disposable loops and syringe filters, and reagent grade water systems.

Wampole Laboratories

Half Acre Rd, PO Box 1001, Cranbury, NJ 08512-0181.
 Tel: 609 655 6000/800 257 9525
 Telex: 510 685 4443 Fax: 609 655 6898
 Supplies clinical reagents and diagnostics.

Whatman BioSystems Inc

9 Bridewell Place, Clifton, NJ 07014.
 Tel: 201 773 5800/800 922 0361
 Telex: 133426 Fax: 201 472 6949

Developing continuous culture of mammalian cells for production of therapeutics. Supply downstream processing systems including membrane filtration and chromatography including ion exchange cellulose media and columns. Part of Whatman International (see Whatman Biosystems Ltd, UK).

Whatman Specialty Products Inc

6 Just Rd, Fairfield, NJ 07004.
 Tel: 800 343 5853 Fax: 201 882 5134

Manufacture a wide range of separation media and columns including ion exchange cellulose and silica media.

Wheaton Instruments

1000 North 10th Street, Millville, NJ 08332.
 Tel: 609 825 1100/800 225 1437
 Fax: 609 825 1368

Manufactures laboratory instruments and equipment including roller culture apparatus and micro-stirrer systems for cell culture as well as culture tubes and bottles, as well as a microprocessor control system for fermentation.

Wien Laboratories Inc

PO Box 227, Succasunna, NJ 07876-0227.
 Tel: 201 584 7019/800 631 9384
 Telex: 650 313 0939 Fax: 201 584 0210

Supplies radioimmunoassay kits, components and antibodies.

Wild Lertz USA Inc

24 Link Drive, Rockleigh, NJ 07647-9987.
 Tel: 201 767 1100 Telex: 6853354
 Fax: 201 767 4196

Supply equipment for microscopy and blood grouping and typing.

Worne Biotechnology Inc

Easthampton Bus Ctr 1507, Rt 206, Mount Holly, NJ 08060.
 Tel: 609 654 5550 Fax: 609 261 3111

Develops systems for biological nitrogen fixation, conversion of biomass and microbial remediation of toxic wastes.

Worthington Biochemical Corp

Halls Mill Rd, Freehold, NJ 07728.
Tel: 908 462 3838/ 800 445 9603
Fax: 908 308 4453

Manufactures bulk clinical enzymes, research biochemicals and products for cell isolation and molecular biology.

Xechem Inc

100 Jersey Ave, Bldg B, Suite 310, New Brunswick, NJ 08901.
Tel: 908 247 3300 Fax: 908 247 4090

Produce and purify antibacterials and anticancer agents.

Xenopore Corp

374 Midland Ave, Saddle Brook, NJ 07662.
Tel: 201 796 0200 Fax: 201 796 8262

Produce microwell plates, dialysis membranes and solid supports for covalent binding.

Zeus Scientific Inc

PO Box 38, Raritan, NJ 08869.
Tel: 201 526 3744 Fax: 201 526 2058

Supply antigens, viral antigens, reagents, standards and controls for immunology, bacteriology, virology and serology as well as a wide range of test kits.

New Mexico — NM

Bio/Film Technologies Inc

P.O. Box 5004, University Park, Las Cruces, NM 88003.
Tel: 505 646 4149

Produce xanthan gum, enzymes and a centrifugal film bioreactor.

Cell Robotics Inc

2715 Broadbent Pkwy NE, Albuquerque, NM 87107.
Tel: 800 846 0590/ 505 343 1131/ 505 343 9532
Fax: 505 344 8112

Produce cell sorting equipment.

ENVIRCO Corp

6701 Jefferson NE, Albuquerque, NM 87109.
Tel: 505 345 3561/800 545 6598
Fax: 505 345 8875

Supply clean room supplies, cabinets and filters.

Knoll Bioproducts Company Inc

PO Box 2736, Santa Fe, NM 87504.
Tel: 505 983 4066 Fax: 505 989 8660

Supply products for bioremediation including microbial preparations with nutrients, biological grease digestant, sewage digestant for septic tanks and biological odour digestants.

Los Alamos Diagnostics Inc

2470 East Rd, Los Alamos, NM 87544.
Tel: 505 662 0003/800 433 6105
Telex: 353317 ladiag Fax: 505 662 0036

Supply equipment for bioluminescence and chemiluminescence, cell harvesters, antibiotic susceptibility testing systems and equipment and reagents for microbiology and immunology.

Los Alamos National Laboratories

Life Sciences Division
Los Alamos.
Tel: 505 665 0480

Developing methods for rapid identification of microorganisms of clinical importance.

New Mexico State University

Plant Genetic Engineering Laboratory for Desert Adaptation

Box 3GL, Las Cruces, NM 88003.
Tel: 505 646 5453 Fax: 505 646 5975

Engaged in R&D in plant biotechnology for desert agriculture. Promotes technology transfer and applied research in areas of crop improvement for arid and semi-arid regions as well as stress tolerance.

Rhomed Inc

4261 Balloon Park Rd NE, Albuquerque, NM 97109.
Tel: 505 344 7200 Fax: 505 344 9460

Developing antibody-based radiopharmaceutical diagnostics for inflammatory and abscess imaging, an antibody-based delivery system for cancer diagnostics and therapeutics, and immunoassays.

Summa Medical Corp

4255 Balloon Park Road NE, Albuquerque, NM 87109.
Tel: 505 345 8891/800 843 4339
Fax: 505 345 7610

Manufactures drugs for use in cancer detection and therapy, including an interest in use of monoclonal antibodies. Products include histochemical markers and diagnostic kits.

Vivigen Inc

2000 Vivigen Way, Sante Fe, NM 87505.
Tel: 505 438 1111/800 VIVIGEN
Fax: 505 438 1120

Full service genetic testing laboratory offering cytogenetic, biochemical and molecular genetic services. A wholly owned subsidiary of Genzyme Corp.

New York — NY

Aalborg Instruments & Controls Inc

292 Route 59, Tall Pines Industrial Park, Monsey, NY 10952.
Tel: 914 357 1007 Fax: 914 357 1360

Manufacture and supply instrumentation for mass flow metering.

Accurate Chemical and Scientific Corp

300 Shames Drive, Westbury, NY 11590.
Tel: 516 333 2221/800 645 6264
Telex: 4972582 accuchem Fax: 516 997 4948

Supplies biochemicals, fine chemicals and media for cell separation, buffers, sugar derivatives, acetone powders and research enzymes, including cholinesterase, collagenase, asparaginase and amyloglucosidase. Also supplies a wide range of antisera and antibodies against enzymes, fibrinogens, gamma-globulins, hormones, blood components, immunoglobulins, tissue-typing antigens and venoms as well as other conjugated antibodies, antimicrobials (eg ampicillin and antimycin), lectins, steroids and peptide hormones. Distributor for Sera Labs, UK, Janssen Biochimica, Belgium, Australian Monoclonal Development Pty Ltd, Biomakor, Israel, Cedarlane Laboratories Ltd, Canada, Inter-Cell Technologies Inc, US and UCB Bioproducts SA, Belgium.

Advance Biofactures Corp

35 Wilbur St, Lynbrook, NY 11563.
Tel: 516 593 7000 Fax: 516 593 7039

Carries out R&D and manufacture of enzymes including collagenase for therapeutic and clinical use.

Advanced Purification Systems Inc

80 Raynor Ave, Ronkonkoma, NY 11779.
Tel: 516 467 2301/800 233 2774
Telex: 4758154 Fax: 516 467 2659

Market sterile and non-sterile clean room supplies including garments, gloves, wipes, mats and floor care products.

AgriVirion Inc

460 W 25th Street, New York, NY 10001.
Tel: 212 463 7325

Developing systems for the large scale production of baculovirus-based insecticides. The insecticides, which are produced by low-cost, high-density insect rearing technology, are 'self-destructive' and therefore do not cause environmental contamination.

Agway Inc

Farm Systems and Applied Technology Division, Biotechnology Group

PO Box 4933, Syracuse, NY 13221-4933.
Tel: 315 449 6549 Fax: 315 449 6078

Albert Einstein College of Medicine

Yeshiva University

1300 Morris Park Avenue, Bronx, NY 10461.
Tel: 718 430 3357 Fax: 718 597 3774

Carrying out research in biology, neuroscience, infectious diseases, immunology, cancer, pharmacology, cardiology and genetics. Offers a wide range of technologies for licensing.

American Biogenetic Sciences Inc

1385 Akron St, Copiague, NY 11726.
Tel: 516 789 2600 Fax: 516 789 1661

Laboratories: Reyniers Germ Free Building, University of Notre Dame, Notre Dame, IN 46556

Developing and producing antibody-based in vitro diagnostics and therapeutics. Products in development include diagnostics for cardiovascular, malignant, infectious and neurodegenerative diseases.

American BioResources Corp

107-27 180th St, Jamaica, NY 11433.
Tel: 718 658 0400 Fax: 718 526 5798

Manufactures and supplies speciality reagents and intermediates for R&D in the biotechnology, pharmaceutical and diagnostics industries.

American Biorganics Inc

2236 Liberty Drive, Niagara Falls, NY 14304.
Tel: 716 283 1434/800 648 6689
Telex: 926074 Fax: 716 283 1570

Manufacturer of high purity biological buffers/derivatives, electrophoresis buffers, amino acids/derivatives and nucleotides/derivatives. Also supply tissue culture medium, serum-free medium and high purity lab reagents.

American Cancer Society Inc

777 Third Avenue, New York, NY 10017.

American Industrial Health Council

1075 Central Park Avenue, Scarsdale, NY 10583.
Tel: 914 725 1492

American Institute of Aeronautics and Astronauts

1633 Broadway, New York, NY 10019.
Tel: 212 581 4300

Interests in biotechnology include the NASA programme of bioprocessing and bioseparation in space and use of continuous flow electrophoresis in space.

American Institute of Chemical Engineers

345 East 47th Street, New York, NY 10017.
Tel: 212 644 7660

Amur Research Corp/Kerix Corp

c/o Academic Catalyst Corp, 14 Madison Ave, Valhalla, NY 10595.
Tel: 914 948 9496/212 683 7070
Fax: 914 428 8364

Researches and develops novel diagnostics and therapeutic agents.

An-Con Genetics

1 Huntington Quadrangle, Melville, NY 11747.
Tel: 516 694 8470 Fax: 516 694 8477

Produces a non aldehyde tissue fixative to replace formaldehyde (formalin - 10%NBF).

Anachemia Chemicals Inc

3 Lincoln Blvd, Rouses Point, NY 12979-1045.
Tel: 518 297 4444/800 323 1414
Fax: 518 297 2960

Supplies biotechnology grade reagents, custom manufactured glass distilled or recrystallized, and chromatography solvents.

Analytab Products Inc

200 Express St, Plainview, NY 11803.
Tel: 516 349 4000/800 645 7034
Telex: 960231 api Fax: 516 349 8719

Produce bacterial identification systems and viral diagnostics.

Anotec Separations

226 East 54th St, Suite 501, New York, NY 10022.
Tel: 212 751 3770 Fax: 212 751 0191

Manufacture separations equipment including a disposable syringe filter combining glass microfibre and membrane filter components. Company in the Alcan Group.

Applied Biophysics Inc

1223 People's Avenue, Troy, NY 12180.
Tel: 518 276 6438 Fax: 518 276 2825

Developing an 'electronic cell-substrate impedance sensor' for measuring the morphology of cells in tissue culture.

Applied DNA Systems Inc

1450 Broadway, New York, NY 10018-2201.
Tel: 212 302 7055 Telex: 225517

Research and develop clinical reagents and diagnostics. Products include human collagenase, oxyrase, monoclonal antibodies and in vitro chemosensitivity assay.

Applied Genetics Inc

205 Buffalo Ave, Freeport, NY 11520.
Tel: 516 868 9026 Fax: 516 868 9143

Produce diagnostics and therapeutics based on DNA repair technology. Products include slide tests based on MAbs to DNA repair enzymes, which are used to predict the likely response of cancer patients to chemotherapy, as well as DNA repair enzymes encapsulated in T4N5 liposomes for repair of sun

damaged skin. Developing dermatological liposome delivery systems.

Applied Microbiology Inc

170 53rd St, Brooklyn, NY 11232.
Tel: 718 492 8100 Fax: 718 492 3878

Markets nisin for use as a food preservative. Carrying out research and development of antimicrobial peptides for the treatment of bovine mastitis as well as other food, hygiene and healthcare applications.

Arnel Products Co Inc

PO Box 20045 Cherokee Station, New York, NY 10028.
Tel: 212 620 4622 Telex: 422815
Fax: 212 620 4623

Supplies antisera for radioimmunoassay and other immunological procedures.

Association of Consulting Chemists and Chemical Engineers

50 East 41st Street, New York, NY 10017.
Tel: 212 684 6255

Atlantic Ultraviolet Corporation

250 North Fehr Way, Bay Shore, NY 11706.
Tel: 516 586 5900 Telex: 645158
Fax: 516 595 2609

Manufacture ultraviolet fixtures, ultraviolet germicidal lamps and UV sterilizing systems.

Atomergic Chemetals Corp

222 Sherwood Ave, Farmingdale, NY 11735-1718.
Tel: 516 694 9000 Fax: 516 694 9177

Manufactures custom chemicals and pharmaceuticals. Products under development include enzymes, dyes and stains, bacterial xanthan and hyaluronic acid.

Aura Industries Inc

PO Box 898, Staten Island, NY 10314.
Tel: 719 494 9031 Fax: 718 983 9107

Develops and manufactures specialist chromatography accessories, including post column photochemical reactors, jackets and solvent filter degassing systems, and other products for analysis and purification.

Bio-Ex Medica

PO Box 59, East Moriches, NY 11940.
Tel: 212 348 8214

Biotechnology company carrying out research and development of enzymes and hormones to retard aging.

Bio-Optronics Inc

3385 Brighton-Henrietta TL Rd, Rochester, NY 14623.
Tel: 716 272 3040 Fax: 716 272 7273

Produces computer software for process-based quality improvement and pollution prevention.

Biochemical Diagnostics Inc

180 Heartland Blvd, Brentwood, NY 11717.
Tel: 516 595 9200 Telex: 3722099
Fax: 516 595 9204

Supply chromatography equipment, standards and controls as well as clinical test kits; robotic sample preparation systems; solid phase extraction columns; derivatization reagents.

Biodesign Inc of New York

PO Box 1050, Carmel, NY 10512.
Tel: 914 454 6610 Fax: 914 454 6077

Manufacture and supply products for cell biology and biochemistry including a drying material for polyacrylamide and agarose gels, nylon filters, dialysis tubing and well reader.

Bionique Testing Laboratories Inc

RR 1 Box 2 Bloomingdale Rd, Saranac Lake, NY 12983.
Tel: 518 891 2356 Fax: 518 891 5753

Develop and market diagnostic assays and kits to detect mycoplasma contamination in cell cultures. Also offer cell culture testing services.

BioResearch Inc

55 Rome St, Farmingdale, NY 11735.
Tel: 516 249 8400

Produce synthetic peptides and oligonucleotides. Developing automated systems for peptide and oligonucleotide synthesis, new synthetic procedures for peptide synthesis, new reagents for peptide synthesis, new high intensity sweeteners, new technology for the flavour and food industry including an acceptable low sodium salt.

BioScreen Inc

889 Broadway, Suite 6A, New York, NY 10003.
Tel: 212 260 6692

Developing diagnostic kits for male fertility testing and research.

Bioseparations Inc

Langmuir Laboratory, Suite 137, 95 Brown Rd, Ithaca, NY 14850.
Tel: 607 257 6302

Biosure

1924 Bellmore Avenue, PO Box 1039, Bellmore, NY 11710.
Tel: 516 783 1733 Fax: 516 783 8016

Provide insurance services to the biotechnology industry, including property and health insurance as well as liability coverage for clinical trials and new products.

Biotech Associates

200 B-11 Motor Parkway, Hauppauge, NY 11788.
Tel: 516 231 4488 Fax: 516 231 6874

Scientific recruitment company. Provides temporary and permanent staff in areas such as QC, product chemistry and microbiology.

BioTechnology General Corp

1250 Broadway, 20th Floor, New York, NY 10001.
Tel: 212 239 0450 Fax: 212 239 0502

Manufacture and develop human and animal healthcare products using recombinant DNA technology including human growth hormone, animal growth hormones, human superoxide dismutase, apolipoprotein E, hepatitis B vaccine, hyaluronic acid, thrombus-imaging and anti-reocclusion agents.

Bower and Gardener

Corporate Venture Practice Group
110 East 59th Street, New York, NY 10022.
Tel: 212 751 2900 Fax: 212 752 3148

Provides legal representation and counselling to the scientific community. Areas of expertise include therapeutics and diagnostics, communications, environmental technology and licensing.

Boyce Thompson Institute for Plant Research Inc

Tower Road, Ithaca, NY 14853.
Tel: 607 254 1300 Fax: 607 254 1242

Independent not-for-profit corporation affiliated with Cornell University. Has four programmes: Plant Molecular Biology Program for use and development of the cutting-edge techniques of molecular biology to understand specific plant processes and to impact the other programmes; Plant Protection Program for study and development of biological alternatives to synthetic chemical pesticides; Plant Production Program for study of plant-root interactions including those with microbes such as symbiotic biological nitrogen fixation; Plant Environmental Biology Program for study of effects of atmospheric and soil pollutants and interacting stresses on crop plants and trees.

Brain Research Inc/Oncolab Inc

46 East 91st St, New York, NY 10028.
Tel: 212 831 3070 Fax: 212 831 6645

Research company developing cancer diagnostics.

Brinkmann Instruments Inc

One Cantiague Road, Westbury, NY 11590.
Tel: 516 334 7500/800 645 3050
Telex: 6852174 Fax: 516 334 7506

Manufacture electrochemical instrumentation, cell homogenizers, liquid handling and consumables, constant temperature equipment, consumables, vacuum controlling equipment, rotary evaporators, electrodes, sample preparation equipment, centrifuges including micro systems, pH meters, cell and tissue culture equipment, ion and thin layer chromatography equipment and accessories.

Bristol-Myers Squibb Pharmaceutical Research Institute

Department of Investigative Toxicology

PO Box 4755, Building 32-196, Syracuse, NY 13221.
Tel: 315 432 2067

Bristol-Myers Squibb Pharmaceutical Research Institute

Molecular Biology Group

100 Forest Ave, Buffalo, NY 14213.
Tel: 716 887 3717/800 333 0950
Fax: 716 887 3638

Westwood Squibb Division of Bristol-Myers Squibb Co, specializes in R&D on pharmaceuticals for skin diseases.

Brookhaven Instruments Corporation

750 Blue Point Rd, Holtsville, NY 11742-1832.
Tel: 512 758 3200 Telex: 6852252
Fax: 516 758 3255

Manufactures particle analyzers and apparatus for molecular weight determination and zeta potential instrumentation.

Brookhaven National Laboratory

Office of Technology Transfer

Bldg 463, Upton, NY 11973.
Tel: 516 282 3391 Fax: 516 282 3407

Carries out basic and applied research in the physical, biomedical and environmental sciences as well as in selected energy technologies. Biotechnology is an interdepartmental/interdisciplinary effort drawing on the expertise of a large group of staff scientists and their laboratory facilities.

C Itoh & Co (America) Inc

335 Madison Avenue, New York, NY 10017.
Tel: 212 818 81 18 Telex: WUD 12297

Market a microprocessor controlled bioreactor system and evaporators.

Cadus Pharmaceutical Corp

180 Varick Street, New York, NY 10014-4606.
Tel: 212 645 3738 Fax: 212 229 1948

Developing therapeutics which act on G-protein coupled receptors (GPCR) and associated signal transduction pathways for treatment of inflammation as well as neurological and cardiovascular disorders.

Cambridge Filter Corp

7645 Henry Clay Blvd, Syracuse, NY 13221-4906.
Tel: 315 457 1000 Telex: 322096 camfil
Fax: 315 457 7341

Manufacture clean room laminar flow systems, filters and filtration equipment.

Carl Zeiss Inc

One Zeiss Drive, Thornwood, NY 10594.
Tel: 914 747 1800/ 800 233 2343
Fax: 914 681 7446

Markets a full range of microscopy equipment, including upright, inverted, stereo and photomicroscopes; transmission and scanning electron microscopes with integrated image analysis; quantitative and analytical microscopy systems; laser scan microscopes; and a series of image processing and image analysis systems.

Carter-Wallace Inc

767 Fifth Avenue, New York, NY 10022.
Tel: 212 758 4500

Reported licensee of Stanford University, US Cohen-Boyer patent for recombinant DNA Technology.

Catalyx Group

One Harkness Plaza Suite 300, 61 West 62nd Street, New York, NY 10016.
Tel: 212 956 3525

Executive search firm specialising in biotechnology and the life sciences.

Celanese Corp

1211 Avenue of the Americas, New York, NY 10036.
Tel: 212 764 7640

Celanese Research Co: Summit, NJ 07901.
Tel: 201 522 7500

Manufactures industrial chemicals and polymers based on petrochemical feedstocks. Licenses an anaerobic treatment process for use with industrial wastewater. Has a research programme related to genetic engineering and has contracted work to Yale University, US concerned with development of enzymes for use in the industrial, chemical and textile industries.

Cellular Products Inc

872 Main Street, Buffalo, NY 14202.
Tel: 716 882 0920 Fax: 716 882 0959

Manufactures research products including human and recombinant growth factors, monoclonal antibodies to HIV, HTLV-I and HTLV-II retroviruses as well as antigen ELISAs, IFA assays, enzyme oligonucleotide assays for the detection of specific DNA sequences, and FDA-approved antibody ELISA test kits for HIV and HTLV-I. Also markets confirmatory Western Blot test kits for HIV and HTLV retroviral antibodies.

Center for Biotechnology

State University of New York at Stony Brook
130 Life Sciences Building, Stony Brook, NY 11794-5208.

Tel: 516 632 8521 Fax: 516 632 8577

Promotes economic development through the transfer of research discoveries from the laboratory to the market place. Programmes include support of early stage, innovative research, small business assistance programmes and business 'incubator' facilities for start up biotech companies. Provides industry access to specialized University resources including tissue culture and monoclonal antibody laboratory, centre for analysis and synthesis of macromolecules, centre for radioligand synthesis and spectroscopy as well as nuclear magnetic resonance spectroscopy centre.

Charm Bioengineering

710 Old Willets Path, PO Box 12308, Hauppauge, NY 11788-0615.

Tel: 516 234 0500 Telex: 144538
Fax: 516 234 0691

Supply mixers, blenders and dispersion equipment.

Chem Systems Inc

303 South Broadway, Tarrytown, NY 10591.
Tel: 914 631 2828 Fax: 914 631 8851

Consulting firm undertaking studies on the implications of biotechnology developments to the chemical industry. Areas covered include technical, economic, market and strategic studies for the applications of biotechnology to speciality chemicals, fine chemicals, commodity chemicals, energy, equipment, food industry etc. Capabilities from design of process through economic evaluations and strategic considerations. Additionally, determine economic technologies available for licence and merger and acquisition work.

Chembio Diagnostic Systems Inc

3661 Horseblock Rd, Medford, NY 11764.
Tel: 516 924 1135/800 327 3635

Telex: 62637780 Fax: 516 924 6033

Produce test kits for glycosylated and sickle cell haemoglobin, rapid one step immunoassays for HCG in urine or serum, LH (ovulation), Chlamydia antigen in swabs or urine, Strep A, Hepatitis B, Strep B, HIV I and II.

Clark Laboratories Inc

24 East Third Street, PO Box 1059, Jamestown, NY 14702-1059.

Tel: 716 483 3851 Fax: 716 488 1990

Market and supply various test kits for human diseases including Mitochondria, Chlamydia, Herpes, Pneumonia and Rubella. Also custom manufacture specialised kits.

Clean Room Products Inc

1800 Ocean Avenue, Ronkonkoma, NY 11779-6528.
Tel: 516 588 7000/800 832 4273

Fax: 516 588 7863

Manufactures equipment and accessories for the construction of clean rooms.

Clestra Cleanroom Inc

7000 Performance Drive, North Syracuse, NY 13212-3448.

Tel: 315 452 5200 Fax: 315 452 5252

Specialise in design, fabrication, installation, balancing, testing, certification and maintenance of clean rooms. Provide consultancy in all aspects of clean room design and installation.

Clinical Communications & Research Consultancy

ClinCom

219 Dorchester Rd, Rochester, NY 14610.
Tel: 716 482 0250 Fax: 716 482 6349

Offer services in liaison between North American pharmaceutical and biotechnology companies and European clinical research organizations.

Clinical Technologies Associates Inc

5 Westchester Plaza, Elmsford, NY 10523.
Tel: 914 347 2220 Fax: 914 347 2498

Develop and market an oral delivery system for therapeutics based on proprietary encapsulation technology.

Cold Spring Harbour Laboratory

PO Box 100, Cold Spring Harbour, NY 11724.
Tel: 516 367 8397

Carrying out research in various areas of molecular biology including oncology, cell growth regulation and neuroscience.

Collaborative Laboratories Inc

3 Technology Drive, Suite 400, Stony Brook Technology Center, East Setauket, NY 11733.
Tel: 516 689 0200 Fax: 516 689 0205

Develop techniques in controlled delivery systems. Offer research and development services in analytical/physical chemistry, in vitro toxicology/efficacy and manufacturing/process development.

Collaborative Microbiology Laboratories Inc

25 East Loop Road, Stony Brook, NY 11970-3350.
Tel: 516 444 8881 Fax: 516 444 8825

Provide contract toxicity testing services to biochemical, microbiological, pharmaceutical, agricultural and environmental industries.

Columbia University

School of Engineering

353 Terrace Building, New York, NY 10027.
Tel: 212 280 4716

Investigating use of ultrafiltration membranes and, in particular, pilot-plant studies using non-fouling membranes with algae as a means of concentrating plant extracts and hydrolyzates for use as fermentation feedstocks. Possible methods of end-product recovery from fermentation process include ethanol production.

Columbia University

Office of Science & Technology Development

116 St & Broadway, New York, NY 10027.
Tel: 212 854 8444 Fax: 212 854 8463

Offers non-exclusive licences for commercial development of pioneering genetic engineering techniques developed at the University. These methods make it possible to introduce almost any gene into cultures of animal and other eukaryotic cells which can then be used for the production of proteins for vaccines.

Columbia University

Department of Chemical Engineering

New York.
Tel: 212 280 4453

Developing methods for recovery of protein products from recombinant yeast based on enzymic digestion of the cell wall leading to a much higher protein yield.

Cornell University

Department of Biochemistry

Ithaca.

Tel: 607 256 4326

Studying regulation of genetic activity in yeast (*Saccharomyces cerevisiae*) using mutations, nucleotide sequencing and recombinant DNA technology.

Cornell University

Department of Agricultural and Biological Engineering

Riley-Robb Hall, Cornell University, Ithaca, NY 14853-5701.

Tel: 607 255 2465 Fax: 607 255 4080

Carry out R&D in food, agriculture and bioprocessing as follows: heat and mass transfer at membranes during freezing and thawing, mathematical modelling of microwave heating, integrated thermal and kinetic effects in sterilization, novel enzyme applications to food; fruit and vegetable storage, soft fruit problems, stomatal dynamics modelling, analysis and control of ensilage, robotics and image analysis in fruit handling, nutrient uptake in hydroponics; 'stray voltage' effects on cows, stress and thermoregulation, heat transfer, cryoprotectants, ultrasonic imaging for live beef grading, electronics in dairying; large-scale electrophoretic protein separation, enzyme synergy in cellulose hydrolysis, bioconversion of whey, composting; analytical models for energy and resource recovery particularly in agricultural waste management; detoxification of sludges, contaminated soil testing.

Cornell University

Biotechnology Program

130 Biotechnology Building, Ithaca, NY 14853-2703.

Tel: 607 255 2300 Fax: 607 255 2428

Carries out basic R&D with government and industry support and promotes technology transfer in several areas including plant molecular biology, animal cell surface receptors, protein structure, enzymology and bioprocess engineering.

Cornell University

Department of Horticultural Sciences

Department of Plant Pathology, Sturtevant Hall, Geneva, NY 14456-0462.

Tel: 315 787 2246 Telex: 6717017

Fax: 315 787 2320

Carrying out R&D in two main areas of non-chemical control of plant pests: microbial-based control of plant diseases based largely on *Trichoderma* and *Gliocladium* for the control of pathogenic fungi; genes and gene products, including *Trichoderma* chitinolytic enzymes, with potential for production of transgenic plants with resistance to plant pests and transgenic microbes as biocontrol agents.

Corning Glass Works

Houghton Park AB-1, Corning, NY 14831.

Tel: 607 974 9000 Telex: 932499

PO Box 1150, Elmira, NY 14902-9944

Manufactures glass, including Pyrex brand heat-resistant borosilicate glassware for domestic and laboratory use, as well as plastic and glass disposable laboratory ware. Has developed systems for immobilization of enzymes on glass support systems and for the production of high-fructose corn syrup using glucose (xylose) isomerase in particular. Has also applied the technique to production of radioimmunoassay test kits. Has developed

immobilized systems for hydrolysis of lactose in whey.

Corning Science Products

PO Box 7740, Corning, NY 14830.

Tel: 609 974 4667

Supply disposable plastic labware for the biotech lab.

Creative Scientific Technology Inc

55 Northern Blvd, Great Neck, NY 11021.

Tel: 516 482 9001 Fax: 516 482 0186

Manufacture and supply synthetic replacements for human fluids including saliva, serum and spinal fluid.

Culture Kits Inc

PO Box 748, 14 Prentice St, Norwich, NY 13815.

Tel: 607 336 1422

Produces diagnostic test kits for use in doctors' surgeries including urine test kits, throat test kits, and gynaecological test kits.

Curative Technologies Inc

Box 9052, 14 Research Way, Setauket, NY 11733.

Tel: 516 689 7000 Fax: 516 689 7067

Produce gastrointestinal pharmaceuticals including growth factors for the treatment of chronic non-healing wounds.

Defined Healthcare Research Inc

570 Seventh Avenue, New York, NY 10018.

Tel: 212 302 0580 Fax: 212 354 5125

Specializes in the evaluation of business opportunities involving healthcare and biotechnology products.

Deltown Specialities

1712 Deltown Plaza, Fraser, NY 13753.

Tel: 607 746 3082 Fax: 607 746 2585

Market protein hydrolysates for use in the diagnostics and nutritional industries.

Diagnostic Genetics Inc

2840 Broadway, Suite #168, New York City, NY-10025.

Tel: 212 439 1089 Fax: 212 439 0017

Develop and produce probes for cancer screening. Probes include monoclonal and polyclonal antibodies, chemical probes, chiral metal complex molecular probes and DNA and RNA antisense probes. Research is focused on the development of highly specific antisense probes which are able to 'turn off' genes. Also examining functional aspects of nucleic acids in cancerous tissues of human patients.

Diagnostic Specialities

PO Box 712, Fraser, NY 13753.

Tel: 607 746 3082

Conducts enzymatic hydrolysis of protein to produce proteins with reduced antigenicity.

Diagnostic Technology Inc

240 Vanderbilt Motor Parkway, Hauppauge, NY 11787.

Tel: 516 582 4949/800 645 6288

Fax: 516 582 4694

Markets diagnostics and clinical tests for medical and veterinary use as well as other biological products including monoclonal antibodies and agglutinin tests for blood test kits.

Part II New York — NY UNITED STATES OF AMERICA

Direct Therapeutics

14 Lakeside Drive, Yorktown Heights, NY 10598.
Tel: 914 248 8332 Fax: 914 248 5514

Develop anti-cancer drugs and delivery systems.

Duwest Research

44 Ferracane Place, PO Box 349, Garnerville, NY 10923.

Tel: 914 942 1193

Offers both single and multi-client consultancy services in the areas of market research and economic analysis.

Dynal Inc

5 Delaware Dr, Lake Success, NY 11042.
Tel: 800 638 9416/ 516 326 3270

Fax: 516 326 3298

Manufacture monoclonal antibodies, cell sorters and DNA probes, and an isolation system for DNA or mRNA from cells, tissues and plants using superparamagnetic bead technology.

E F Hutton

1 Battery Park Plaza, New York, NY 10004.
Tel: 212 742 5000

Investment corporation with interests in biotechnology companies.

Eastbourne Associates Inc

50 Glen Street, Glen Cove, NY 11542.
Tel: 516 759 7575 Fax: 516 759 6249

Offers management consultancy and executive searches in the pharmaceutical and high technology industries. Primarily concerned with management and technical staff.

Eastman Kodak Co

Life Sciences Division

343 State Street, Rochester, NY 14650.
Tel: 716 458 4014/800 225 5352

Telex: 978481

Major supplier of photographic and X-ray film, including materials designed for biological and medical applications. Developing diagnostic methods based on thin film immobilized enzyme technology and reflectance spectroscopy as well as products in the areas of animal nutrition, agricultural technology and pharmaceuticals through partnership with Cetus and Amgen, US.

Eastman Kodak Co

Clinical Products Division

255 East Avenue, Rochester, NY 14650.

Tel: 716 724 5979/4000 Fax: 716 724 0663

Supply automated analyzers, diagnostic test kits, electrodes and controls.

Edwards High Vacuum Inc

3279 Grand Island Blvd, Grand Island, NY 14072.
Tel: 716 773 7552 Telex: 6854319

Manufactures vacuum pumps and freeze dryers.

Emisphere Technologies Inc

15 Skyline Drive, Hawthorne, NY 10532.
Tel: 914 347 2220 Fax: 914 347 2498

Working to develop and commercialize its proprietary, amino acid-based oral delivery system which will allow oral delivery of many classes of drugs, including proteins, that must otherwise be injected. The patented technology essentially consists of encapsulating pharmaceutically active substances in polymeric microspheres. The system protects a drug from the harsh environment of the gastro intestinal tract and delivers the compound

unchanged into the bloodstream. The technology has been successfully demonstrated in animals for a number of compounds and most recently in humans for low molecular weight heparin. The company has on-going development agreements with a number of pharmaceutical firms.

Encore Laboratories Inc/Clark Laboratories Inc

24 E Third St, PO Box 1059, Jamestown, NY 14702-1059.

Tel: 716 483 3851 Fax: 716 488 1990

Produce immunodiagnostic reagents and offer services in development of immunoassays and the preparation of antigen coated tubes and plates for infectious disease and autoimmune disease.

The Energy Bureau Inc

41 East 42nd Street, New York, NY 10017.

Tel: 212 687 3178

Enteric Products Inc

110 Hopper Street, Westbury, NY 11590.

Tel: 516 334 1980 Fax: 516 333 0509

Carry out R&D and distribution of immunodiagnostic products for use in doctors' surgeries for detection, diagnosis and treatment of human gastrointestinal disorders.

Enviro-Zyme Inc

Stormville Mountain Rd, Stormville, NY 12582.

Tel: 914 878 3667 Fax: 914 878 7917

Supply wastewater treatment systems including bacterial enzymes.

Environmental Solutions Corp

25 East Loop Road, Suite 125, Stony Brook, NY 11790.

Tel: 516 444 8838 Fax: 516 444 8825

Developing technology for industrial waste water treatment and soil remediation.

Enzo Biochem Inc

345 Hudson St, New York, NY 10013.

Tel: 212 741 3838/800 221 7705

Telex: 424683 Fax: 212 645 9469

60 Executive Blvd, Farmingdale, NY 11735.

Tel: 516 755 5500 Fax: 516 755 5569

Supply lab reared woodchucks and support services for development of methods of treatment and prevention of human viral infections such as Hepatitis B. Involved in on-going research into the use of the woodchuck as a model for human viral infections.

Enzo Diagnostics Inc

40 Oak Drive, Syosset, NY 11791.

Tel: 516 496 8080/800 221 7705

Telex: 424683 enzobio Fax: 576 496 0830

Currently develops, manufactures and markets diagnostic and research products and provides diagnostic services. FDA-cleared diagnostic products include a gel based, one-step, faecal occult blood screening test. Research products include DNA probe based assays for identifying a variety of microorganisms and viruses, biotinylated probes for viruses, oncogenes and bacteria, monoclonal antibodies for immunopathology and biotinylation kits for the non-radioactive labelling of DNA probes. Recent product introduction analyses cervical biopsy tissue for virus types implicated in cervical cancer. Parent company has built a network of clinical reference laboratories and opened a brand new 25000 sq foot facility in Central Long Island. Developing new and highly specific therapeutics for

combating viral diseases and cancer using antisense nucleic acid technology.

Ernst & Young

395 North Service Rd, Melville, NY 11747.

Tel: 516 752 6100 Fax: 516 752 6232

Offers services in financing, commercialization and rapid technological innovation to all sectors of the biotechnology industry from start-up to mature businesses.

Ever Ready Thermometer Co Inc

401 Park Ave S, New York, NY 10016.

Tel: 212 684 2155 Fax: 212 684 2204

Manufacture humidity and temperature monitors and controls.

Exovir Inc

111 Great Neck Rd, Suite 607, Great Neck, NY 11021.

Tel: 516 466 2110 Telex: 275770

Fax: 516 466 0893

Developing therapeutic products based on antivirals, surfactants, cytokines and interferon for treatment of genital herpes and genital warts.

Fairfax Biological Laboratory Inc

Electronic Road, P.O. Box #300, Clinton Corners, NY 12514.

Tel: 914 266 3705 Fax: 914 266 5390

Culture and supply *Bacillus popilliae* for control of Japanese beetle.

FBA Pharmaceuticals

425 Park Avenue, New York, NY 10022.

Tel: 212 751 5544

Distributes bulk pharmaceuticals and fine chemicals (see Bayer AG, Germany).

Fibratek Inc

122 Life Sciences, University at Stony Brook, Stony Brook, NY 11794-5208.

Tel: 516 632 9167 Fax: 516 632 8577

Developing a plasma product with applications in tissue fusion and healing.

Fleischmann Yeast Co

625 Madison Avenue, New York, NY 10022.

Tel: 212 759 4400

Produces bakers' yeast, feed yeast and related food products.

Fluid Metering Inc

29 Orchard St, PO Box 179, Oyster Bay, NY 11771.

Tel: 516 922 6050/800 223 3388

Fax: 516 624 8261

Manufacture metering pumps, dispensers and accessories.

Fluka Chemical Corp

980 South Second Street, Ronkonkoma, NY 11779-7238.

Tel: 516 467 0980/800 358 5287/800 FLUKA US

Telex: 967807 Fax: 516 467 0663

Supplies a wide range of fine chemicals including neutral ionophores for ion-selective electrodes, silanizing agents and cocktails for ion-selective liquid membranes for use in microelectrodes and bioactive peptides. Subsidiary of Fluka Chemie, Switzerland.

Freeman Industries

100 Marbledale Road, PO Box 415, Tuckahoe, NY 10707.
Tel: 914 961 2100 Telex: 131646

Supplies vitamin concentrates, amino acids and proteins. Extracts fine chemicals from agricultural waste products. Manufactures and distributes inorganic and organic chemicals containing bromine.

Fritzsche Dodge & Olcott

76 Ninth Avenue, New York, NY 10011.

Develops and manufactures fragrances, flavours and allied materials from sources which include fermentation and microbial conversion of natural products.

Frost & Sullivan Market Intelligence

FSMI

106 Fulton Street, New York, NY 10038-2786.
Tel: 212 233 1080/800 575 1080
Fax: 212 619 0831/964 1198

MIRC, 2525 Charleston Rd, Mountain View, CA 94043.

Tel: 415 961 9000 Fax: 415 961 5042

Produces 200-400 page market research reports analyzing the US and European biotechnology markets. Each report contains forecasts which include market size by product and end-use industry where applicable. European reports are organized by country. Reports contain analyses of technological trends, the competitive environment, governmental impact, product characteristics, marketing approaches and strategies. Major vendors are profiled, market shares are given and distribution channels are described. Part of Market Intelligence Research Corporation.

FTS Systems Inc

Life Sciences Division

PO Box 158, Route 209, Stone Ridge, NY 12484-0158.

Tel: 914 687 0071/800 251 1531
Telex: 510 247 0547 Fax: 914 687 7481

Manufactures freeze dryers for laboratory use as well as vacuum pumps, lyophilizers and baths.

Gallard Schlesinger Industries Inc

584 Mineola Avenue, Carle Place, NY 11514.

Tel: 516 333 5600 Telex: 6852390
Fax: 516 333 5628

Distributes a full range of electrophoresis reagents and accessories, including coloured isoelectric point markers and calibration kits. Agent for BDH Chemicals Ltd, UK. Sales in US only.

GE Research and Development Center

Environmental Laboratory

PO Box 8, Schenectady, NY 12301-0008.
Tel: 518 387 5000 Fax: 518 387 7911

Developing products for environmental management and industrial feedstocks.

Gemini Science Inc

600 3rd Ave, 21st Floor, New York, NY 10016.
Tel: 212 953 2240 Fax: 212 286 8065

US subsidiary of Kirin Brewery Co, Japan, develops human therapeutics and acts as liaison for collaborative ventures in development of novel products.

Genencor International Inc

4 Cambridge Place, 1870 South Winton Rd, Rochester, NY 14618.

Tel: 716 256 5200 Fax: 716 244 2806

180 Kimball Way, South San Francisco, CA 94080.
Tel: 415 742 7500 Fax: 415 583 8269

Produce a range of fine and speciality biochemicals including enzymes for various industrial applications such as detergents, starch processing, textiles, ice-nucleation, food and feed processing as well as paper and pulp preparation. A joint venture between Eastman Kodak Co and Cultor, Finland.

General Electric Co

Energy Systems Programs Department

1 River Road, Schenectady, NY 12345.

Tel: 518 385 7024

Has developed method of biogas purification based on the use of permoselective membranes.

General Foods Corp

250 North Street, White Plains, NY 10625.

Tel: 914 335 2500

Technical Centre: 555 South Broadway, Tarrytown, NY 10591.

Tel: 914 335 6458

Manufactures and distributes processed food products. Carries out related research on fermentation of foods and food ingredients from research stage to production facility. Has investment interests in Engenics Inc, US.

Genetix Pharmaceuticals Inc

777 Old Saw Mill River Road, Suite 6300, Tarrytown, NY 10591-6700.

Tel: 914 789 2852 Fax: 914 789 2851

Developing gene therapy delivery systems as well as chemotherapy-resistant bone marrow, anti-cancers and aids therapeutics.

Giles Scientific Inc

250 Mercer St, Suite A301, New York, NY 10012.

Tel: 212 603 9290 Fax: 212 473 6628

Supply products for testing antibiotic sensitivity and computer software; software for personal computers to sequence DNA film-gels with a hand held high resolution scanner; agar-diffusion quantitative analysis reader and software.

GlycoMed Research Inc

137 Southside Avenue, Hastings-on-Hudson, NY 10706.

Tel: 914 478 5668 Fax: 914 478 5668

Markets medical grade non-pyrogenic connective tissue biopolymers as well as skin and personal health care products. Developing polysaccharide-based therapeutics for promotion of wound healing and treatment of inflammatory and cardiovascular diseases.

Granular Specialties Inc

201 Christopher St, Ronkonkoma, NY 11779.

Tel: 516 467 1113 Fax: 516 981 8173

Harrick Scientific Corp

88 Broadway, PO Box 1288, Ossining, NY 10562.

Tel: 914 762 0020 Fax: 914 762 0914

Supplies electrophoresis equipment and spectrophotometer cells.

Heat Systems Ultrasonics Inc

1938 New Highway, Farmingdale, NY 11735.

Tel: 516 694 9555/800 645 9846

Telex: 825339 Fax: 516 694 9412

Manufactures a wide range of apparatus for use in cell disruption, emulsifying and processing cells or tissue, based on both mechanical and ultrasonic systems, and clean room equipment and glove boxes.

Hellma Cells Inc

PO Box 544, Borough Hall Station, Jamaica, NY 11424.

Tel: 718 544 9534 Fax: 718 263 6910

Supplies spectrophotometric accessories including cells, ultra micro volume cells, dye laser cells, flow cells and light sources including deuterium, xenon, PID and hollow cathode lamps and other products.

Hemazyme Inc

177 East 77th St, New York, NY 10021.

Tel: 212 249 5781

Undertake enzymatic conversion of non type O human blood cells to type O.

IBM Corp

Thomas J Watson Research Center, Yorktown Heights, New York, NY.

Tel: 914 945 3000

Orchard Rd, Armonk, NY 10504

Has developed bench top computers for laboratory use, with real time operating system software to both control instruments and acquire, as well as analyse, data from multiple instruments. The system, which offers printing, plotting and data storage facilities, includes a chromatography applications program that can be used with both liquid and gas chromatographs.

Imclone Systems Inc

180 Varick St, New York, NY 10014.

Tel: 212 645 1405 Fax: 212 645 2054

Develops and commercializes products for human healthcare. Products include therapeutic agents, vaccines and diagnostics for the care of cancer, tissue damage and infectious diseases. Aims to become a fully integrated biopharmaceutical company through carefully structured corporate alliances as well as retaining full manufacturing and marketing rights in selected product areas with its own fully integrated capabilities.

Immco Diagnostic

963 Kenmore Ave, Buffalo, NY 14223.

Tel: 716 876 5672

Manufactures immunology and histology test kits for use in diagnosis of autoimmune and other diseases.

Immunological Associates/Generic Immunologicals

PO Box 329, Sayville, NY 11782.

Tel: 516 589 5536

Offer consultancy services in production and marketing of polyclonal and monoclonal antibody products. Develop, manufacture and market disposable products and kits for antiserum production in laboratory and farm animals.

ImmunoSciences Inc

160 Community Drive, Great Neck, NY 11021.

Tel: 516 466 0684 Fax: 516 466 2666

Manufacture monoclonal antibodies for diagnostic uses, maintain a tissue bank and offer immunohistochemical characterization services.

Part II New York — NY UNITED STATES OF AMERICA

Impath Laboratories Inc

1010 Third Ave., Suite 203, New York, NY 10021.
Tel: 212 935 5858 Fax: 212 750 8594

Offers contract R&D services, including diagnostic pathology and specificity and distribution analysis of MAbs.

INAMCO Chemicals & Lab Equipment

78-44 Parsons Blvd, Flushing, NY 11366.
Tel: 718 969 0926 Fax: 718 591 4453

Supply cell sorting products.

Innovir Laboratories Inc

510 East 73rd St, New York, NY 10021.
Tel: 212 249 4703 Fax: 212 249 4513

Manufacture anti-RNA therapeutics.

Intergen Company

Two Manhattanville Rd, Purchase, NY 10577.
Tel: 914 694 1700 Telex: 426973 itgn
Fax: 914 694 1429

Worldwide supplier of reagents used in mammalian cell culture production. Products include foetal bovine serum, albumins, recombinant growth factors, cancer and cardiac markers.

International Flavors and Fragrances Inc

521 West 57th Street, New York, NY 10019.
Tel: 212 765 5500 Fax: 212 708 7132

Produces a wide range of organic chemicals by both fermentation and chemical synthesis.

International Regulatory Consultants

700 Washington St, New York, NY 10014.
Tel: 212 242 6206 Fax: 212 463 9286

2471 East Shadow Wood Circle, Salt Lake City, UT 84117-0801.

Tel: 801 272 3550 Fax: 801 272 8543

Offer consultancy in healthcare regulatory affairs. Services include quality assurance and compliance audits, dossier development, registrations, regulatory strategy, representation with FDA and European health ministries.

J M Science Inc

Suite 300, 5820 Main Street, Buffalo, NY 14221.

Manufactures a temperature-controlled ion chromatography detector.

The Jewett Refrigerator Co Inc

2 Letchworth St, Buffalo, NY 14123.
Tel: 716 881 0030/800 879 7767
Fax: 716 881 6092

Manufacture refrigerators and freezers for biological and life science storage.

Kaken USA Corporation

MelLife Building, 200 Park Ave, 39th floor, New York, NY 10166.
Tel: 212 878 6782 Fax: 212 878 6784

Produces a range of therapeutics and other pharmaceuticals (see Kaken Pharmaceutical Co Ltd, Japan).

Kidder Peabody and Co Inc

10 Hanover Square, New York, NY 10005.
Tel: 212 747 2802

Provides marketing and financial information for the drug industry in the form of published reports including The Industrial Enzyme Market.

Kipp & Zonen

390 Central Avenue, Bohemia, NY 11716.
Tel: 516 589 2885 / 800 645 1025

Fax: 516 589 2068

Manufactures lab chart and data acquisition recorders.

Laboratory for Experimental Medicine & Surgery in Primates (LEMSIP)

WHO Collaborating Centre

NYU Medical Center, 550 First Ave, New York, NY 10016.

Tel: 212 679 8884

Provides a primate blood grouping service as well as carrying out research studies on hepatitis in chimpanzees.

Lederle Laboratories

Medical Research Division

401 N Middletown Rd, Pearl River, NY 10965.
Tel: 914 732 3511 Fax: 914 732 5500

One Cyanamid Plaza, Wayne, NJ 07470.
Tel: 201 831 3250

Major producer of pharmaceuticals, including tetracyclines and other antibiotics, vaccines, nutritional products, anticancer and cardiovascular therapeutics and antifungal drugs. Part of American Cyanamid Co, US.

Life Technologies Inc

Gibco Laboratories

2086 Grand Island Boulevard, Grand Island, NY 14072.

Tel: 716 774 6771 Fax: 716 774 6639

PO Box 6009, Gaithersburg, MD 20844.

Supplies basal media and supplements for cell growth of mammalian, insect, plant, simple eucaryotic and procaryotic cells. Also produces an in vivo deletion system which generates 'nested' fragments for DNA sequencing.

Lifecodes Corp

Sawmill River Rd, Valhalla, NY 10595.

Tel: 914 784 2600 Fax: 914 592 1235

Carrying out research and development in relation to recombinant DNA technology. Offer clinical services in the use of DNA probes for HPV and paternity and forensic identity testing. Offers training, proficiency programmes and reagent kits/probes to other laboratories interested in recombinant DNA techniques.

Litron Laboratories Inc

1351 Mount Hope Ave, Suite 207, Rochester, NY 14620.

Tel: 716 442 0930

Undertake contract research in areas of genetic toxicology testing, production of monoclonal antibodies, protein separation and purification, enzymology and flow cytometry.

Liuzy Microbiology Laboratories Inc

212 Maple St, Islip, NY 11751.

Tel: 516 581 7379

Undertake microbiology testing of OTC products.

Long Island Research Institute

100 North Country Road, Setauket, NY 11733.

Tel: 516 689 6300 Fax: 516 751 8678

Involved in the commercialisation of technology developed by its sponsors, including the Brookhaven National Laboratory, Cold Spring Harbour Laboratory, University of New York and Cornell Medical College.

Malcolm Cole and Associates

2604 Elmwood Avenue, Box 321, Rochester, NY 14618.

Tel: 716 654 5170 Fax: 716 654 5171

Executive search firm specializing in the biotechnology and pharmaceutical industries.

Manostat Corp

519 Eighth Avenue, New York, NY 10018.

Tel: 212 594 6262 Telex: 649380

Fax: 212 629 0483

Manufactures automatic pipetting devices, culture media dispensers, liquid chromatography pumps, glove boxes, peristaltic pumps, evaporators and colorimeters.

MAP Pharmaceuticals Inc

002 Life Sciences Building, University at Stony Brook, Stony Brook, NY 11794-5208.

Tel: 516 632 9275 Fax: 516 632 8577

Develops dosage formulations for pharmaceuticals.

Marubeni Corp

Specialty Chemicals Department

200 Park Ave, New York, NY 10166.

Tel: 212 599 3958 Fax: 212 599 7405

Supply biological control products based on Bt.

Medical Systems Corp

One Plaza Rd, Greenvale, NY 11548.

Tel: 516 621 9190 Fax: 516 621 8503

Developing technology related to biomedical physiology. Developing dissolved oxygen mapping system, in vivo electrochemistry systems, temperature controllers and cell and tissue chambers.

Medsonic Inc

1938 New Highway, Farmingdale, NY 11735.

Tel: 516 694 9555 Fax: 516 694 9412

Manufactures ultrasonic instruments including ultrasonic liquid processors. Also produces fume hoods and air scrubbers.

Medtech Diagnostics Inc

1401 Church St, Bohemia, NY 11716.

Tel: 516 589 5664

Manufactures a diagnostic kit for pap smear tests.

Melville Biologics Inc

Division of New York Blood Center Inc

155 Duryea Rd, Melville, NY 11747.

Tel: 516 752 8753 Fax: 516 752 8754

Developing, manufacturing and marketing parenterals for human therapeutic use as well as developing and licensing virus inactivation technology. Also produces plasma/blood derivatives including fibronectin, albumin and factor VIII.

Memorial Sloan-Kettering Cancer Center

1275 York Avenue, New York, NY 10021.

Tel: 212 639 3620 Fax: 212 753 5764

This Center's research programmes encompass molecular biology, cell biology and genetics, cellular biochemistry and biophysics, immunology, and developmental therapies. A broad range of studies address the biochemical and biophysical basis of cellular structure and function; synthetic organic chemistry and analytic and synthetic protein chemistry; structure of membrane-associated proteins; mechanisms of lymphocyte development; growth factors and other controls of cellular and organ development; mechanisms of regulated gene expression; and oncogene function and the role of oncogenes in the natural history of cancers.

Milton Roy Co

820 Linden Ave, Rochester, NY 14625.
Tel: 716 248 4000/800 654 9955
Telex: 210389 Fax: 716 248 4014
Manufacture UV/VIS spectrophotometers.

Moltech Corp

25 East Loop Road, Stony Brook, NY 11790-3350.
Tel: 516 444 8865 Fax: 516 444 8870
Develop and produce advanced electro-active and optical materials, for example conducting polymers for biosensors.

Montedison USA Inc

1114 Avenue of the Americas, New York, NY 10036.
Tel: 212 764 0260 Telex: 66312/225976
Fax: 212 840 0732
Distributes products of Montedison SpA, Italy.

Nalge Co

Nalgene Labware Department
75 Panorama Creek Drive, PO Box 20365,
Rochester, NY 14602-0365.
Tel: 716 586 8800 Fax: 716 586 8431/3294
Manufactures a wide range of plastic laboratory ware including pipettes, filter systems, pipette washers etc. Division of Sybron Corp, US.

Nanoprobes Inc

25 East Loop Road, Suite 124, Stony Brook, NY 11790-3350.
Tel: 516 444 8815 Fax: 516 444 8816
Develops and produces gold-labelled antibodies for research and medical diagnostics.

Narishige USA

1 Plaza Rd, Greenvale, NY 11548.
Tel: 516 621 4588 Fax: 516 621 5081
Supply micromanipulation equipment for cell research.

Natra Cure

96 Nichols St, Spencerport, NY 14559.
Tel: 716 352 8728
Produce high-capacity screen to identify topoisomerase inhibitors, and human nuclear proteins. Developing topoisomerase assay kits, natural substances for treatment of atherosclerosis and anti-AIDS assays.

New York Academy of Sciences

2 East 63rd Street, New York, NY 10021.
Tel: 212 838 0230 Fax: 212 888 2894

New York Biolabs Inc

30 Austin Boulevard, PO Box 167, Commack, NY 11725.
Tel: 516 543 3800 Telex: 271150
Fax: 516 543 3801
Supplies enzymes for molecular biology specializing in restriction enzymes, as well as offering custom service for purification of enzymes and nucleic acids for genetic engineering purposes.

New York Biotechnology Association Inc

1 Penn Plaza, Suite 100, New York, NY 10119.
Tel: 212 695 4077 Fax: 212 695 4987
130 Life Sciences Building, Stony Brook, NY 11794-5208.
Tel: 516 632 8525 Fax: 516 632 8577

New York City

Office of Resource Recovery
51 Chambers Street, Room 830, New York, NY 10007.
Tel: 212 566 8870
Developing landfill gas projects and testing use of landfill gas in internal combustion engines for generation of electricity.

New York City Public Health Research Institute

Applied Genetics Laboratory
455 First Ave, New York, NY 10016.
Tel: 212 578 0850
Carrying out research on the genetic manipulation of *Bacillus subtilis* including development of assays for determination of level of protein secretion based on recognition through inclusion of a specific sequence, in addition to the usual secretion sequence and foreign gene sequence. Products investigated include the herpes virus antigen as well as prokaryotic and eukaryotic genes.

New York Public Health Research Institute

Department of Microbiology
455 First Avenue, New York, NY 10016.
Tel: 212 578 0800
Carrying out studies on cloning of genes in *Bacillus subtilis* using *Staphylococcus aureus* plasmids and in vitro recombination techniques.

New York State College Cornell

Agriculture & Life Sciences
Ithaca.
Tel: 607 256 3264
Assisting in the development of guidelines for the release of genetically engineered organisms.

New York University Medical Center

Office of Industrial Liaison
550 First Avenue, New York, NY 10016.
Tel: 212 263 8191 Fax: 212 263 8189
Carries out research in a wide range of areas including therapeutics, diagnostics, biotechnology, chemistry, instrumentation, and devices. Involved in technology transfer activities. Has technologies available for licensing.

Nikon Inc

Instruments Group
1300 Walt Whitman Rd, Melville, NY 11747.
Tel: 516 547 8500 Fax: 516 547 0306
Manufactures a wide range of optical microscopes and related photographic equipment, including research polarizing, clinical laboratory, stereo zoom, ultra-violet illumination instruments etc.

North Shore University Hospital

300 Community Drive, Manhasset, NY 11030.
Tel: 516 562 1000 Fax: 516 562 2866
Carries out research into immunological and genetic disorders and treatments.

Norwich Eaton Pharmaceuticals Inc

17 Eaton Avenue, Norwich, NY 13815-0231.
Tel: 607 335 2111 Telex: 607 685 4553 epiuw
Fax: 607 335 2798
Manufactures drugs and pharmaceuticals. A Procter & Gamble company.

NSG Precision Cells Inc

195G Central Ave, Farmingdale, NY 11735.
Tel: 516 249 7474 Fax: 516 249 8575
Manufacture a very wide range of cells for spectrometry in optical glass or quartz as well as cells for UV and IR work. Products include standard cells, anaerobic cells, water jacketed cells, dye laser cells and fluorimeter cells.

Nuclear Associates

100 Voice Rd, PO Box 349, Carle Place, NY 11514-0349.
Tel: 516 741 6360 Fax: 516 741 5414
Develops, manufactures and markets instruments and accessories in the following areas: X-ray, nuclear medicine, ultrasound, CT, MUI, radiation therapy, etc.

Nutrimed Biotech

270-276 Langmuir Laboratory, Cornell Research Park, Ithaca, NY 14850.
Tel: 607 257 1166 Fax: 607 257 2820
Develop novel fats as diet food ingredients, prophylactics and biochemicals based on intracellular messengers and lipids.

NYGene Corp

One Odell Plaza, Yonkers, NY 10701.
Tel: 914 964 8300/800 622 3280
Fax: 914 964 9891
Produce a membrane affinity separation system for the purification of monoclonal and polyclonal antibodies.

Olympus America Inc

Precision Instrument Division
4 Nevada Drive, Lake Success, NY 11042.
Tel: 516 488 3880 Fax: 516 222 0878
Manufactures microscopes, endoscopes, photographic and other optical devices for laboratory and clinical use.

Olympus America Inc

Clinical Instruments Division
4 Nevada Drive, Lake Success, NY 11042.
Tel: 516 488 3323/800 426 2042
Telex: 960199 olympus Fax: 516 222 0878
Supplies monoclonal antibodies specific for interleukins 1 and 2, tumour necrosis factor, interferons beta and gamma, granulocyte-monocyte colony stimulating factor and monoclonal antibodies specific for human leukocyte markers as well as second-step reagents; products developed and manufactured for Olympus by United Biomedical Inc, US.

Olympus America Inc

Biomedical Research Center
3 Technology Drive, Suite 100, Stony Brook Technology Center, East Setauket, NY 11733.
Tel: 516 689 6900 Fax: 516 689 6997
Develops diagnostics and clinical reagents.

Oncogene Science Inc

350 Community Drive, Manhasset, NY 11030.
Tel: 516 365 9300/800 ONC 2616
Fax: 516 365 9328
106 Charles Lindbergh Blvd, Uniondale, NY 11553-3649.
Tel: 516 222 0023 Fax: 516 222 0114
Produce monoclonal antibodies and DNA probes. Products include monoclonal antibodies for oncogene-encoded proteins, growth factors and their receptors, DNA probes and oligonucleotides. Also

DNA probe-based in vitro diagnostic products available for detecting leukemia. Over 100 DNA probes available for human and murine gens including lymphokines, growth factors, hormones, transcription factors, nuclear proteins, channel proteins, proto-oncogenes and controls. DNA probes are 40-base single-stranded synthetic oligonucleotides.

Orion Therapeutic Systems Inc

PO Box 716, East Setauket, NY 11733.

Develop novel therapeutic systems.

Oxford GlycoSystems Inc

Cross Island Plaza, 133-33 Brookville Boulevard, Rosedale, NY 11422.

Tel: 718 712 2693/800 722 2597

Fax: 718 712 3364

Develop, manufacture and market a range of products for glycobiology including exo- and endo-glycosidases, native N-linked oligosaccharides, native O-linked oligosaccharides, conjugated oligosaccharides with dansyl, fluorescein and biotin, tritium-labelled alditors of the native oligosaccharides, standard glycoproteins with the chemically released oligosaccharide library containing the mixture of N- and O- linked oligosaccharides, glyco-amino acids, partially methylated alditor acetates and kits. Undertake confidential analytical services for glycosylation studies on glycoproteins including composition analysis, profile analysis and structure analysis requiring very small amounts of the glycoprotein. Also supply a glycon release system and an automated sequencer for analysis of oligosaccharides.

Oxigene

110 East 59th Street, 29th Floor, New York, NY 10022.

Tel: 212 421 0001 Fax: 212 421 0475

Market and develop drug products, based on research into DNA repair, which are used for cancer therapy and prevention of aging disorders.

Oyster Bay Pump Works Inc

One Bay Avenue, PO Box 96, Oyster Bay, NY 11771.

Tel: 516 922 3789 Fax: 516 624 9253

Supply systems for automation of precision, small volume liquid dispensing, microplate coating, test tube coating, slides, membranes and others. Offer custom systems design.

Pall Biosupport

2200 Northern Blvd, East Hills, NY 11548.

Tel: 516 484 5400 Telex: 649491

Fax: 516 484 6129

Supplies a wide range of nylon[66] and PVDF membranes and fibrous media for molecular biology and in vitro diagnostic assays. These component materials are available with various porosities and surface chemistries for controlled flow-through or immobilization of biologically active molecules, cells or particles. Large scale manufacturing capabilities and strict QC standards ensure consistent materials and supply.

Pall Ultrafine Filtration Co

Health Care Group

2200 Northern Blvd, East Hills, NY 11548.

Tel: 516 484 5400/800 645 6532

Fax: 516 625 3610

Offers high quality microfiltration products for manufacture of diagnostics and therapeutics. Products include prefilters for endotoxin, cell and cell debris removal and membrane filters for sterile filtration, endotoxin reduction and mycoplasma and virus removal. A complete line of disposable and replaceable filter elements and housings is available in a wide variety of sizes and styles.

Paracelsian Inc

222 Langmuir Laboratories, Cornell Technology Park, Ithaca, NY 14850.

Tel: 607 257 4224 Fax: 607 257 2734

Involved in the development and marketing of proprietary products for pharmaceutical, toxicological and environmental testing. Products include assays for detection of dioxin and a test for the identification of nongenotoxic carcinogens.

PDI Inc

405 Oakwood Rd, Huntington Station, NY 11746.

Tel: 516 673 3939 Fax: 516 673 4502

Manufactures intelligent scanning densitometers for DNA sequencing, 2-D gel protein analysis and 1-D gel and dot/slot blot analysis. Also produces RFLP database image analysis software.

Pederson Biotech Resources Inc

277 Langmuir Laboratory, Ithaca, NY 14850.

Tel: 607 257 1492/255 4665

Manufacture polyclonal antibodies.

Pen Kem Inc

341 Adams Street, Bedford Hills, NY 10507.

Tel: 914 241 4777 Fax: 914 241 4842

Manufactures and markets instruments for the measurement of physical and chemical properties of dispersions, including automated colloid, particle size and viscoelasticity analyzers. Products currently in development include a dielectric spectrometer and a video image analyzer.

Pfeiffer Glass

140 Bennington Drive, Rochester, NY 14616.

Tel: 716 865 1290 Fax: 716 865 1303

Manufactures pipettes, cylinders, hydrometers and custom laboratory glass. Division of Fisher Scientific International, US.

Pharmaceutical Research Network

111-05 Jamaica Avenue, Richmond Hill, NY 11418.

Tel: 718 441 3415 Fax: 718 849 3007

Independent contract research organization specializing in the management of Phase II-IV clinical trials. Services include project feasibility/requirements, QA audits, and coordination of data entry. Areas of expertise include HIV/AIDS, diagnostic kits, infectious disease, gastroenterology and dermatology.

Phyton Catalytic Inc

175 Langmuir Lab, 95 Brown Rd, Ithaca, NY 14850.

Tel: 607 257 5058 Fax: 607 257 5515

Develop and produce plant-derived pharmaceuticals and other fine chemicals.

PLM Associates Inc

6 Stratford Road, Scarsdale, NY 10583.

Tel: 914 723 5130 Fax: 914 725 8420

Offers technical consultancy services to the biotechnology and pharmaceutical industries. Services include facility design, equipment specifications, management advice and FDA-GMP compliance consulting.

Popper and Sons Inc

300 Denton Ave, New Hyde Park, NY 11040.

Tel: 516 248 0300 Fax: 516 747 1188

Manufacture cell culture and harvesting equipment as well as pipettes, syringes and needles.

Praxis Biologics Inc

Lederle-Praxis Biologicals.

211 BAiley Road, West Henrietta, NY 14586-9728.

Tel: 716 272 7000 Fax: 716 273 7515

4300 Oak Park, Sanford, NC 27330.

Tel: 919 775 7100

Developing pediatric vaccines, therapeutics and diagnostics against infectious diseases using animal cell culture technology. Produces vaccines for haemophilia influenza type B, pertussis, otitis media, rotavirus, malaria, meningitis, respiratory tract infection and pneumonia. A subsidiary of American Cyanamid.

Pro-Cons Labs Inc

25 Woodridge Drive, Armonk, NY 14228.

Tel: 716 691 3978 Fax: 716 691 3970

Undertake contract research.

Profile Diagnostic Sciences Inc

510 East 73rd St, New York, NY 10021.

Tel: 212 249 1940 Fax: 212 249 4021

Develops products for immunotesting and gene probing.

Progenics Pharmaceuticals Inc

Old Saw Mill River Rd, Tarrytown, NY 10591.

Tel: 914 789 2800 Fax: 914 789 2817

Developing pharmaceuticals for treatment of HIV. Products include an HIV drug screening assay which is marketed by DuPont de Nemours & Co. Products under development include a diagnostic imaging agent designed to localize and measure HIV in the body; a therapeutic for HIV-positive asymptomatic individuals to delay or prevent AIDS; a prophylactic agent designed to be administered to children born to HIV-infected mothers and to healthcare workers who sustain accidental needle-stick injuries; a novel AIDS vaccine based on a viral subunit.

Public Health Research Institute

455 First Ave, New York, NY 10016.

Tel: 212 578 0800 Fax: 212 578 0804

Carrying out independent research on basic molecular biology and molecular genetics. Major research projects include development of AIDS vaccines and anti fungal therapeutics.

Pulp Chemicals Association

60 East 42nd Street, New York, NY 10165.

Tel: 212 697 4816

Quest International Inc

Sheffield Products Division

PO Box 630, Woods Corner, Norwich, NY 13185.
Tel: 607 334 9951/800 833 8308
Telex: 646056 Fax: 607 334 5022

Manufactures and markets hydrolyzed proteins and peptones for use in fermentations. Part of the Quest Group.

Regeneron Pharmaceuticals Inc

777 Old Saw Mill River Rd, Tarrytown, NY 10591-6707.
Tel: 914 347 7000 Fax: 914 347 2113

Develop products for treatment of neurodegenerative diseases, peripheral neuropathies and nerve injuries including Parkinson's disease, Alzheimer's disease, Lou Gehrig's disease and spinal cord injuries.

State University of New York

Research Foundation

518 Capen Hall, Buffalo, NY 14260-0001.
Tel: 716 645 3811 Fax: 716 645 2933

Involved in research in numerous areas, including biomaterials, biochemical engineering, pharmacology, toxicology, medical devices and instrumentation. Has a number of specialised centres which are used by collaborating industries, including a centre for immunology and a centre for biosurfaces.

Revlon Inc

767 Fifth Avenue, New York, NY 10022.
Tel: 212 758 5000

Health Care Group: 1 Scarsdale Rd, Tuckahoe, NY 10707

Major manufacturer of health care products and cosmetics. Has interests in the production of interferon through its subsidiary Meloy Laboratories, US.

Roan Ventures

2343 Halyard Drive, Merrick, NY 11566-5528.

Venture capital investment company with interests in biotechnology new business startup.

Rochester University

Department of Biology

260 Critten Boulevard, Rochester, NY 14627.

Investigating genes for histone synthesis in large and small nucleus of Tetrahymena.

Rockefeller University

Laboratory of Molecular Cell Biology

66th & York Avenue, New York, NY 10021.

Studies include gene organization and formation of mRNA in mammalian cells and determination of inverted repeat DNA sequences. Also assessing role of chromosomal proteins in gene activation and use of charon phage as cloning vector.

Rockefeller University

Laboratory of Genetics

66th & York Avenue, New York, NY 10021.

Carrying out studies on structure and function of chromosomal DNA in *Drosophila melanogaster*, use of cosmids as cloning vector, and mapping of structural genes. Also studying fine structure of DNA.

Rx Technologies

PO Box 6, Port Washington, NY 11050.
Tel: 516 683 3030 Fax: 516 6831818

Develop vaccines and immunomodulatory therapies, based on proprietary ultrasonic techniques, for the treatment of cancer and infectious diseases including malaria and Lyme disease.

Sanford Scientific Inc

877 Marshall Rd, Waterloo, NY 13165.
Tel: 315 539 1200 Fax: 315 539 0337

Develop new genes/vectors for plant genetic engineering, transformation systems for ornamental plants and improved ornamental cultivars. Undertake contract research in the area of biolistic transformation especially regarding ornamental plants.

Sartorius Corp

131 Heartland Blvd, Edgewood, NY 11717.
Tel: 800 368 7178

Manufactures and markets high precision scales and balances, blotting systems and filtration equipment, including ultrafiltration and microfiltration systems, as well as electrophoresis and electrofocusing equipment.

Savant Instruments Inc

110 Bi-County Blvd, Suite 103, Farmingdale, NY 11735-3933.
Tel: 516 249 4600 / 1 800 634 8886
Fax: 516 249 4639

Produces centrifugal concentration/evaporation equipment supplied as components, complete systems or integrated systems. Applications include nucleic acid, peptide, hormone and tissue extract separation as well as preparation of samples for electrophoresis, chromatography and GC/MS. Manufactures instrumentation for post-synthesis processing of oligonucleotides as well as vacuum and freeze-drying systems. Also supplies gel drying apparatus, suitable for large sequencing gels, in maintenance free integarted and component systems. Benchtop microcentrifuges include a low-cost refrigerated unit and a unit designed for centrifugal filtration/concentration devices.

Scherago Associates Inc

1515 Broadway, New York, NY 10036.
Tel: 212 730 1050 Fax: 212 382 3725

Sponsors of conferences in biotechnology, such as the Second Annual Congress for Hybridoma Research.

Schroder Ventures

787 Seventh Ave, New York, NY 10019.
Tel: 212 871 3880 Fax: 212 582 1405

One of the earliest investors in Genetic Systems. Currently has an investment interest in a number of biotechnology companies including Neurogen Corp, Cell Therapeutics, Incyte Pharmaceuticals, Microprobe Corp and Envirogen among others in the US and Anagen Holdings, Xenova, Shire Holdings and Therexsys among others in the UK and Chemunex in France.

Serva Fine Biochemicals Inc

200 Shames Drive, Westbury, NY 11590.
Tel: 516 333 1575/800 645 3412
Fax: 516 333 1582

Produce columns, supports and packings for chromatography, chemicals for electrophoresis, adsorbents, agarose and acrylamide gels, peptides, cofactors, and blotting systems.

Society for Experimental Biology and Medicine

630 West 168th Street, New York, NY 10032.

Soran Inc

PO Box 368, Sodus, NY 14551.
Tel: 315 483 2345

Main area of interest is membrane systems. Developing anti AIDS enzyme.

Spectronics Corp

956 Brush Hollow Rd, Westbury, NY 11590.
Tel: 516 333 4840/800 274 8888
Fax: 516 333 4859

Manufactures apparatus for electrophoresis and chromatography, UV transilluminators, UV crosslinkers, UV photo-documentation systems, UV lamps and radiometers.

StatChem Inc

375 Central Ave, Bohemia, NY 11716.
Tel: 516 567 5151 Fax: 516 567 8308

Manufacture blood chemistry analyzers and reagents.

State University of New York

School of Biology College of Environmental Science

Syracuse.
Tel: 312 470 6849

Studying production of glycerol at the laboratory scale by use of the algae *Dunaliella* grown in high-salt media.

State University of New York

Department of Microbiology

Stony Brook.

Investigating gene expression in cells following nuclear transplantation.

Stephens Analytical Inc

PO Box 1126, Champlain, NY 12919-1126.
Tel: 514 332 1230/800 267 7474
Fax: 514 335 6566

Distributes moisture analyzers and offers calibration and repair services.

Steri Technologies Inc

80 Orville Drive, Suite 117, Bohemia, NY 11716.
Tel: 516 563 8300 Fax: 516 563 8378

Specializes in manufacturing and servicing high performance filtration and sanitary process equipment.

Sterling Drug Inc

Sterling Research Group

81 Columbia Turnpike, Rensselaer, NY 12144.
Tel: 518 445 8311 Fax: 518 445 8390

Manufacture a wide range of absorbent media designed for use in industrial scale separation of biological products and materials including: macroporous particles based on titania, kieselguhr, or calcium phosphate; ion exchangers based on agarose; glutaraldehyde treated supports for protein immobilization and cross-linked agarose composites. Subsidiary of Sterling Drug, part of Eastman Kodak group.

Part II New York—NY UNITED STATES OF AMERICA

Sulzer Biotech Systems

230 Crossways Park Drive, Woodbury, NY 11797.
Tel: 516 921 7373/800 433 6774
Fax: 516 921 7684

Supplies a full line of fermenters and bioreactors from lab scale to production sizes, including: the MBR cell culture apparatus with perfusion system; Kuehner biological shaker machines including self-contained temperature and humidity controlled cabinets; Hiramama/Mitsuwa bench top fermenters with magnetic couplings; Aquasant biomass sensor for cell culture applications, based on fibre optic techniques; Centritech cell separation systems, for gentle and efficient separation of mammalian cells.

T & B Bioclone Inc

2211 Main St, Buffalo, NY 14214.
Tel: 716 836 7300 Fax: 716 835 3807

Develops monoclonal antibodies for use in diagnostics and therapeutics, and antigens for lung cancer etc.

Taconic Farms Inc

273 Hover Ave, Germantown, NY 12526.
Tel: 518 537 6208 Fax: 518 537 7287

Produce monoclonal antibodies in collaboration with TSD BioServices.

Technicon Instruments Corp

Diagnostic Systems Division

511 Benedict Ave, Tarrytown, NY 10591.
Tel: 914 631 8000/800 241 2500
Telex: 710 567 1220 Fax: 914 333 6132

Supply automated and other analyzers, ion selective electrodes, cell counters, electrophoresis accessories, reagents, standards and controls for clinical analysis, equipment and reagents for immunodiffusion and immunoelectrophoresis, monoclonal and polyclonal antibodies and a wide range of test kits.

Tetko Inc

333 S Highland Ave, Briarcliff Manor, NY 10510.

Produce membranes for use as pre-filters and absorbents in diagnostic devices.

Therion Corp

Rensselaer Technology Park, 185 Jordan Rd, NY 12180.
Tel: 518 286 0016 Fax: 518 286 0018

Provides services in DNA profile testing ('DNA fingerprinting') of animal species including: genetic monitoring, quality control, identity/registry, parentage testing and 'relatedness estimation.' Market areas include: biomedical (cell line characterization), agricultural/domestic animals, zoo and university research, fish and wildlife management.

Trea Tek Inc

Technology Center, 2801 Long Rd., Grand Island, NY 14072.
Tel: 716 773 8661 Fax: 716 773 8110

Produces microbial cultures for the bioremediation of heavy petroleum oil and other chemicals in soil. A subsidiary of Occidental Petroleum.

TSD BioServices

273 Hover Avenue, Germantown, NY 12526.
Tel: 518 537 8000 Fax: 518 537 7287

Provide antibody production and purification services for therapeutic, diagnostic and research applications.

Unipath Co

Oxoid Division

PO Box 691, Ogdensburg, NY 13669.
Tel: 800 567 8378 (TEST) Fax: 613 226 3728

Supplies hydrolyzates, peptones and agars as well as complete formulations in a dehydrated form for laboratory culture of microorganisms, tissue culture, and plant and animal cell lines. Also supplies antibiotic susceptibility testing discs, monoclonal antibodies, anaerobic systems and related laboratory products. Diagnostics business of Unilever.

United Biomedical Inc

2 Nevada Drive, Lake Success, NY 11042.
Tel: 516 354 1060 Fax: 516 775 8024

25 Davids Drive, Hauppauge, NY 11788.
Tel: 516 273 2828 Fax: 516 273 1717

Produces diagnostics and chemical tests based on monoclonal antibodies and speciality proteins. Tests for clinical investigation use include complete AIDS antibody tests and a Hepatitis C test. Supplies monoclonal antibodies for research/testing markets. Offers contract services in immunological product development. Developing an AIDS vaccine based on peptides.

Unitrex Technologies Corp

300 Westgate Center, Fishkill, NY 12524.
Tel: 914 897 3200 Fax: 914 897 3218

Is commercialising a patented strain of the tropical seaweed *Gracilaria G16S* for the production of food grade agar.

Upstate Biotechnology Inc

89 Saranac Ave, Lake Placid, NY 12946.
Tel: 518 523 1518/800 233 3991
Fax: 518 523 1336

Manufacture and market products for cell biology research including signal transduction products, antibodies to growth factors and receptors, recombinant growth factors, serums and media supplements.

Vec-Tec Inc

301 Notts St, Schenectady, NY 12305.
Tel: 518 381 8825 Fax: 518 370 3217

Develop human diagnostics and other speciality reagents.

Virogenetics Corp

Rensselaer Technology Park, 45 Jordan Rd, Troy, NY 12180.
Tel: 578 283 8389 Fax: 578 283 0936

Has joint ventures with Institut Merieux and Health Research Inc to develop therapeutic and diagnostic products for human healthcare and veterinary use including human/animal vaccines utilizing viral vectors such as genetically engineered pox virus.

The VirTis Co Inc

Route 208, Gardiner, NY 12525.
Tel: 914 255 5000/800 431 8232
Fax: 914 255 5338

Supplies laboratory equipment including research fermenters with temperature and speed control, a digital display unit with options for aerobic or anaerobic culture of cells or microbes in batch or continuous culture. Other products include laboratory freeze dryers and ultrasonic cell disrupters.

Vitatech Consultants

PO Box 12, Syosset, NY 11791.
Tel: 516 921 8539

Developing a genetically-engineered protein which acts as a biochemical animal spayer by preventing oestrus behaviour.

Volpi Manufacturing USA

formerly American Volpi Corp

5 Commerce Way, Auburn, NY 13021.
Tel: 315 255 1737/800 688 6574
Telex: 937284 Fax: 315 255 1202

Markets fibre optic illumination for microscopy, optical inspection instruments and fibre optic components for instrumentation.

Wadsworth Center for Laboratories and Research

New York State Department of Health

Albany.
Tel: 518 474 2121 Fax: 518 474 8590

Developing vaccines based on a technique of splicing the gene for the required disease virus onto the vaccinia virus.

Waldman Biomedical Consultancy Inc

PO Box 575, Oceanside, NY 11572.
Tel: 516 763 1158 Fax: 516 536 7628

Offer biomedical consultancy services in areas including patent management, design of commercial scale production systems and coordination of clinical trials as well as preparation and submission of reports and applications to regulatory bodies.

Waste Stream Technology Inc

302 Grote St, Buffalo, NY 14207.
Tel: 716 876 5290 Fax: 716 876 2412

Produce bacterial consortia for bioremediation of oil-contaminated soils and other environmental applications.

Yeshiva University

Albert Einstein School of Medicine Department of Genetics

Bronx.

Undertaking studies on transposed genes and gene mobilization in histone genes from sea urchin.

Yeshiva University

Albert Einstein School of Medicine Department of Microbiology & Immunology

Bronx.

Studying the organisation of mammalian genes.

Yeshiva University

Albert Einstein School of Medicine Department of Biochemistry

Bronx.

Studying regulation of genes for alpha-amylase in yeast (*Saccharomyces carlsbergensis*), kinetics of transcription and the nature of genetic lesions in mutants.

York Biologicals International Inc

24 Old Wood Rd, Stony Brook, NY 11790.
Tel: 516 751 6553 Telex: 421669
Fax: 516 751 6543

Supplies reagents, biochemical and other biological products including serological reagents, antigens, antiserums and growth factors for tissue culture, immobilized antibodies and alpha, beta and gamma-interferons.

Zeta-Meter Co Inc

50-17 Fifth St, Long Island City, NY 11101.
Tel: 718 392 0229

Manufactures particle electrophoresis instruments suitable for analysis of colloids in suspension with applications in water and effluent treatment, pulp and paper making, pharmaceutical production and food processing.

North Carolina — NC**Air Control Inc**

PO Box 1738, 237 Raleigh Rd, Henderson, NC 27536.

Tel: 919 492 2300 Fax: 919 492 9225

Supply clean room equipment.

Ajinomoto USA Inc

4020 Ajinomoto Drive, Raleigh, NC 27610.
Tel: 919 832 2890 Fax: 919 828 8119

Glenpointe Centre West, 500 Frank W Burr Blvd, Teaneck, NJ 07666-6894.
Tel: 201 488 1212 Fax: 201 488 6472

Involved in the manufacture and sale of amino acids and in the sale of imported monosodium glutamate. Produce amino acid derivatives by fermentation with applications in therapeutics development.

Allotech

1421 Park Drive, Raleigh, NC 27605.
Tel: 919 828 9446

Developing perception-based visual and acoustic displays for aerospace, medicine and scientific visualization.

American Agricultural Services Inc

PO Box 1293, Cary, NC 27512.
Tel: 919 469 1800 Fax: 919 469 5749

Provides support to the agricultural biotechnology industry with field and greenhouse evaluation of plants derived from tissue culture and recombinant plants and microbes as well as market research and product/project management to provide technical and market fit and practical project direction.

Anthos Inc

3216 Wellington Court, Suite A&B, Raleigh, NC 27615.
Tel: 919 790 8221 Fax: 919 790 9436

Supplies microplate instruments, fume hoods and laminar air flow cabinets.

Aqua-10 Laboratories

PO Box 818, Beaufort, NC 28516.
Tel: 919 728 2270 Fax: 919 728 5059

Manufacture biologicals for soil, crops, livestock, poultry and pit digesters.

Atlantic Coast Consultants Inc

2450 Honeysuckle Rd, Chapel Hill, NC 27514.
Tel: 919 929 6212

Supplies biotechnological equipment suitable for clinical and research laboratory use.

Bafer Inc

2024 W Fifth St, Washington, NC 27889.
Tel: 919 975 2012 Fax: 919 975 3277

Custom design and manufacture thermoplastic products including therapeutic equipment, filters and packaging.

Bio-Tek Research Consultants

PO Box 12626, Research Triangle Park, NC 27709.
Tel: 919 361 2128

Develop research technology for histopathology and electron microscopy.

Blocon Inc

8100 Brownleigh Drive, Raleigh, NC 27612.
Tel: 919 781 9777 Fax: 919 781 9793

Provide nationwide services for the testing, certification and validation of cleanrooms, HEPA filtration systems, and laminar flow clean air devices.

Bioreba Inc

PO Box 2248, Chapel Hill, NC 27515.
Tel: 919 929 8190 Fax: 919 929 8956

Specializes in producing and marketing reagents and equipment for the diagnosis of plant diseases of agricultural crops such as potatoes, grapevine, fruit trees, small fruits, cereals, vegetables and ornamental plants. Reagents, based on ELISA technique, are offered as simple kits containing purified polyclonal and monoclonal antibodies and enzyme conjugates for either 1000 or 5000 tests. Kits may also include buffers and solid phase supports as well as positive and negative controls. Specially designed equipment for plant tissue extraction, homogenization and liquid handling is also available. Offer consulting services and training in starting up an ELISA laboratory.

Boron Biologicals Inc

PO Box 33489, 533 Pylon Drive, Raleigh, NC 27636.

Tel: 919 832 2044 Fax: 919 832 5980

Research, synthesize and market biologically active compounds including boron analogues of amino acids and nucleic acids, and neurotransmitters. Offer custom synthesis services.

Burroughs Wellcome Co

3030 Cornwallis Road, Research Triangle Park, NC 27709.

Tel: 919 248 3000 Telex: 510 927 0915

PO Box 1887, Greenville, NC 27835.
Tel: 919 830 6476

Manufactures and supplies a wide range of pharmaceutical, veterinary, diagnostic and other products for health care and treatment of humans and animals. Products under development include interferon, vaccines, antibacterials, antivirals for AIDS etc, antihistamines, anti-depressants, anti-cancer and cardiovascular treatments. (see Wellcome Diagnostics, UK).

CAMAG Scientific Inc

1200 North 23rd St, Wilmington, NC 28405.
Tel: 800 334 3909 Fax: 919 343 1834

Distributors for thin layer chromatography products of CAMAG, Switzerland.

Cardiovascular Diagnostics Inc

PO Box 14025, Research Triangle Park, NC 27709.
Tel: 919 544 2952 Fax: 919 544 1454

Carry out research, development, manufacture and distribution of diagnostic systems for point-of-care testing. Products include tests for monitoring anticoagulation and thrombolytic drugs.

Carolina Agro-Tech Corp

PO Box 2196, Henderson, NC 27536.
Tel: 919 438 2674 Fax: 919 492 1170

Research and development of Shiitake mushroom spawn from genetically pure culture for cultivation and marketing.

Carolina Biological Supply Co

2700 York Road, Burlington, NC 27215.
Tel: 919 584 0381/800 334 5551

Telex: 574354 Fax: 919 584 3399

Supplies chemicals, enzymes and DNA for educational use. Offers a wide range of laboratory teaching aids, including electrophoresis apparatus such as gel boxes, power supplies, micropipettes, water baths and microcentrifuges. Other biotechnology educational material includes DNA Science: A First Course in Recombinant DNA Technology laboratory manual plus numerous educational kits for teaching recombinant DNA techniques.

Carolina By-Products Co Inc

PO Box 20687, Greensboro, NC 27420.
Tel: 919 272 3121

Supply nutrients, substrates and defoamers.

Carolina Medical Inc

157 Industrial Drive, PO Box 307, King, NC 27021.
Tel: 910 983 5132/800 334 4531

Fax: 910 983 8992

Design, manufacture, market and service electronic equipment for the detection and diagnosis of vascular disorders. Products include electromagnetic flowmeters and blood flow probes, duplex scanning systems, colour flow Doppler imaging systems, general purpose scanners and urological ultrasound systems with biopsy capability.

Cato Research Ltd

4364 S Alston Ave, Westpark Corporate Center, Durham, NC 27713.

Tel: 919 361 2286 Fax: 919 361 2290

Independent research organization with special expertise in devising regulatory strategy and innovative product development plans for biologics, drugs and devices. Can perform all aspects of drug development, including design and conducting of clinical trials, data management, statistical analyses and reports.

CEM Corp

3100 Smith Farm Rd, PO Box 200, Matthews, NC 28105.

Tel: 704 821 7015 Fax: 704 821 7894

Produce sterilization and digestion equipment based on microwave technology.

Central Biologies Inc

5100 Huntingwood Drive, Raleigh, NC 27606.
Tel: 919 552 5309

Manufacture animal bacterins and vaccines for poultry primarily and also do contract research and custom antibody production.

Part II North Carolina — NC UNITED STATES OF AMERICA

Certek Inc

PO Box 31442, Raleigh, NC 27622.
Tel: 919 787 3989 Fax: 919 787 6210

Supply complete contamination control-products, installation, and testing for contamination control.

Chathamborough Research Group Inc

PO Drawer 929, Pittsboro, NC 27312.
Tel: 919 542 5600 Fax: 919 542 1409

Offer R&D clinical services to medical and pharmaceutical sectors in relation to the gaining of FDA approval for products.

Ciba-Geigy Agricultural Division

PO Box 18300, Greensboro, NC 27419.
Tel: 919 632 6000

Developing recombinant bovine interferon as well as insect and disease resistant plants. Carry out immunoassays for the company's research projects. Part of Ciba-Geigy Corp, US.

Ciba-Geigy Corp

Agricultural Biotechnology Research Center

PO Box 12257, Research Triangle Park, NC 27709-2257.
Tel: 919 549 8164

Carrying out applied research in plant molecular biology, plant genetic engineering, plant cell and tissue culture in tobacco etc, including recombinant DNA manipulation, plant pathology and plant physiology. Subsidiary of Ciba-Geigy AG, Switzerland.

ClinTrials Inc

PO Box 13991, Research Triangle Park, NC 27709.
Tel: 919 460 9005 Fax: 919 380 1840

1 Burton Hills Blvd, Suite 210, Nashville, TN 37215

Offer services in clinical research and trials to the pharmaceutical industry in relation to biotechnological products.

CompuChem Corp

3308 E Chapel Hill, Nelson Highway, Research Triangle Park, NC 27709.
Tel: 919 549 8263/800 833 5097
Fax: 919 248 6462

Offer environmental analytical services and treatment of hazardous wastes.

Convion

Controlled Environments Inc

167 Weaverville Highway, Asheville, NC 28804.
Tel: 704 658 0723/800 368 9132
Fax: 704 658 3445

Supply environmental control chambers and related products.

Diamond Research Products

PO Box 6416, Raleigh, NC 27628.
Tel: 919 821 1688/800 451 5958

Manufacture hybridization systems.

Domnick Hunter Filters Inc

6636-D E WT Harris Blvd, Charlotte, NC 28215.
Tel: 704 568 8788/800 345 8462
Fax: 704 568 8787

Manufacture a complete range of vent, gas and liquid sterilizing grade filters, pre- and clarification filters, automatic integrity testers, sanitary and industrial stainless steel vessels, aseptic off-gas and foam control equipment.

Duke University

Biotechnology Program

012 Allen Building, Durham, NC 27706.
Tel: 919 684 3403

Editek Inc

1238 Anthony Rd, PO Box 908, Burlington, NC 27215.

Tel: 919 226 6311/800 334 1116
Telex: 510 601 7157 Fax: 919 229 4471

Develops, manufactures and markets on-site diagnostics and screening tests for detection of substances in foodstuffs, humans, animals or feed that may be hazardous to human health. Products include an inexpensive on-site test of credit card size format which can be used without the necessity of instruments or technical personnel.

Edward Weck Inc

PO Box 12600, Research Triangle Park, NC 27709.
Tel: 919 544 8000

Carrying out research and development of medical products including biocompatible materials for use in surgical implants and drug release systems. Subsidiary of Squibb Corp, US.

Elcotech

1001 S. Marshall, Ste. 64, Winston-Salem, NC 27101.

Tel: 919 777 3624 Fax: 919 777 3603

Produces reagent kits for clotting factors based on coagulation assay techniques, reagent kits for immunoassay amplification, diagnostics for TPA, botulism and bacterial hemolysis, and a microtiter plate washer.

Embrex

1035 Swabia Court, Morrisville, NC 27560.
Tel: 919 941 5185 Fax: 919 941 5186

Markets an egg injection system and two in-ovo avian vaccines. Developing biotechnology products for the poultry industry including growth factors, and treatments to increase hatching and health.

Ensys Environmental Products Inc

PO Box 14063, Research Triangle Park, NC 27709.
Tel: 919 941 5509 Fax: 919 941 5519

Produce immunoassay test kits for on-site testing of soil and water samples for hazardous waste.

Enzyme Technology Research Group Inc

710 West Main St, Durham, NC 27702.
Tel: 919 683 3161 Fax: 919 683 5886

Developing new products for blood lead testing, field measurement of mercury and cyanide in water and air, and testing for pesticide contamination in the food chain.

ESE Biosciences Inc

3208 Spring Forest Rd, Raleigh, NC 27604.
Tel: 919 872 9686 Fax: 919 872 6747

Developing and implementing biological methods for treating organic contaminants in site matrices.

Etoh Inc

Rte 8, Box 66A, Chapel Hill, NC 27514.
Tel: 919 942 6604

Design and operate alternative energy systems for the production of fuel, animal feed and food.

Family Health International

PO Box 13950, Research Triangle Park, NC 27709.
Tel: 919 544 7040 Telex: 579442
Fax: 919 544 7261

Non-profit biomedical research and technical assistance organization carrying out data collection, analysis and the design of clinical research in support of Third World aid health programmes including the development and testing of safe, effective and affordable contraceptive measures.

Flanders Filters Inc

531 Flanders Filters Road, Washington, NC 27889.
Tel: 919 946 8081 Fax: 919 946 3425

Manufactures bacteriological filters.

Flow Cytometry Standards Corp

PO Box 12621, Research Triangle Park, NC 27709.
Tel: 919 967 9345/800 227 8143
Fax: 919 967 7325

Provides standards for flow cytometer and fluorescence microscope calibration and alignment. Standards are uniform polymer microbeads, sized and stained uniformly with the dyes used by researchers on cells. Newest product is a single reference standard for immunophenotyping with FITC and PE allowing for standardization of instruments for intensity and forward scatter in a single setup run.

Gas Monitoring Inc

201 Commonwealth Court, Cary, NC 27511.
Tel: 919 469 9326/800 438 1152
Fax: 919 469 5427

National environmental testing and monitoring company specializing in evaluation and consultation services for the health care industry.

Genesys Research Inc

2300 Englert Dr., P.O. Box 14165, Research Triangle Park, NC 27709.
Tel: 919 544 9500 Fax: 919 544 9501

Provides a genetic toxicology testing service to the chemical and pharmaceutical industries.

Genetec Corp

205 Winterberry Ridge, Durham, NC 27713.
Tel: 919 493 2022 Fax: 919 787 5432

Manufactures slide thermal cycling equipment.

Genetic Design Inc

7017 Albert Pick Rd, Greensboro, NC 27409.
Tel: 919 668 3210 Fax: 919 668 1442

Produces HLA trays and DNA probes. Offers DNA testing services related to paternity, forensics, human identification and bone marrow typing. A subsidiary of IG Laboratories Inc.

Gist-Brocades

PO Box 24068, Charlotte, NC 28224.
Tel: 704 527 9000 Fax: 704 527 8184

Produce, sell and develop enzymes and biocatalysts for industrial applications. Branch office of Gist-Brocades, Netherlands.

Glaxo Inc

Five Moore Drive, Research Triangle Park, NC 27709.
Tel: 919 248 2100

Carrying out research in all areas of medicine for the parent company Glaxo Group Ltd, UK. Developing aerosol delivery systems.

Granite Diagnostics Inc

2990 Anthony Rd, PO Box 908, Burlington, NC 27215.

Tel: 919 226 6311/800 334 1116

Manufacture monoclonal antibodies and offer services in immunization, monitoring and testing of immunoprotectants etc as well as quality assurance in relation to animal genetics.

Hydro Service & Supplies Inc

PO Box 12197, Research Triangle Park, NC 27709.

Tel: 919 544 3744 Fax: 919 544 5852

Manufactures and supplies ultrapure water for research facilities as well as point-of-use deionization and central reverse osmosis equipment.

ICI Americas Inc

PO Box 208, Goldsboro, NC 27533.

Tel: 919 731 5201

Develop new agrochemicals including insecticides and chemotherapeutics as well as conducting a seed breeding programme.

KabiVitrum Inc

PO Box 597, Clayton, NC 27520.

Tel: 919 553 3831 Fax: 919 553 3601

Applying rDNA and other techniques to the development of genetically engineered health care and food products. Subsidiary of Procordia, Sweden (see KabiVitrum AB, Sweden).

Lab Products International (LPI) Ltd

172 Mine Lake Ct., Suite 100, Raleigh, NC 27615.

Tel: 919 847 0161 Fax: 919 870 9352

Distributes peptides, microplate instrumentation and automated microbiological instrumentation for research applications.

LaQue Center for Corrosion Technology Inc

PO Box 656, Wrightsville Beach, NC 28480.

Tel: 910 256 2271 Fax: 910 256 9816

Carry out consulting and testing on material performance in marine environments. Developing methods of biofouling control and prevention.

Macronex Inc

120 Southcenter Ct., Suite 700, Morrisville, NC 27560.

Tel: 919 481 4390 Fax: 919 481 9145

Developing novel therapeutics for human diseases based on the physiological regulation of macrophages and monocytes, including proprietary molecules for the treatment of inflammatory and autoimmune conditions.

Maize Genetic Resources

Route 1, Box 216AB, Angier, NC 27501.

Tel: 919 894 5594 Fax: 919 894 5660

Developing new genetic lines of stress-resistant corn varieties to license for commercial use.

MAPS Inc

Suite 220, Carr Mill Mall, Carrboro, NC 27510.

Tel: 919 967 1558

Carrying out research and development in relation to novel separation technology for oil and minerals as well as producing a magnetic sorter with application to antibodies.

Maricultura Inc

7225 Wrightsville Ave, Suite 105, Wilmington, NC 28403.

Tel: 919 256 5010 Fax: 919 256 2634

Research, develop, produce and market natural chemicals (astaxanthin, beta-carotene, omega-3 and -6 fatty acids and phospholipids) and pharmaceuticals from marine microorganisms.

Matrix Bioscience

PO Box 12795, Research Triangle Park, NC 27709.

Tel: 407 687 8088

Developing a proprietary oral drug delivery system for peptide and protein-based therapeutics, including an oral delivery system for insulin.

Membrane Production Technology Inc

108 Coatbridge Circle, Cary, NC 27511.

Tel: 919 542 1316

Develop and market membrane separation filter systems for cell culture and bioprocessing.

Microdyn Technologies Inc

1204 Briar Patch Lane, Raleigh, NC 27615.

Tel: 919 872 9375 Fax: 919 872 9375

Manufactures cross-flow microfiltration systems.

Miles-Cutter Laboratories

PO Box 499, Clayton, NC 27520.

Tel: 919 553 5011

Produce blood and plasma related products, including immune serum globulin, blood volume expanders and treatments for bleeding. Subsidiary of Miles Inc, US.

Mycosearch Inc

4905 Pine Cone Drive, Suite 6, Durham, NC 27707.

Tel: 919 489 4700 Fax: 919 489 4700

Research company developing methods of isolation and culture of new fungi and fungal products with applications in the medical, fermentation and agricultural industries. Offer contract natural products screening service.

Norina Instrument Co Inc

405 E Main St, Carrboro, NC 27510.

Tel: 919 942 3777

Carrying out research and development of new image enhancement display processes with applications in biological and medical imaging and X-ray-based detection systems.

North Carolina Biotechnology Center

79 Alexander Drive, PO Box 13547, Research Triangle Park, NC 27709-3547.

Tel: 919 541 9366 Fax: 919 549 9710

Private, non-profit corporation established to promote development and commercialization of biotechnology statewide by working to strengthen the biotechnological research capabilities of the state's universities, assist biotechnology business development, educate and inform the public about the science, issues and applications of biotechnology and encourage collaborations among the state's universities, industry and government.

North Carolina State University

Department of Animal Science

Box 7621, Raleigh, NC 27695-7621.

Tel: 919 515 2755 Fax: 919 515 7780

Conduct research on molecular biology of early embryo development, oocyte maturation, in vitro fertilization in cattle and pigs; transgenic animals produced for various studies.

North Carolina State University

FACS/Hybridoma Facility

4700 Hillsborough St, Raleigh, NC 27606.

Tel: 919 829 4351

Offer service in flow cytometry and hybridoma technology.

North Carolina State University

Department of Poultry Science

Raleigh.

Tel: 919 515-5521/ 919 515 5389

Fax: 919 515 2625

Email: jason@poultry.poulsoci.ncsu.edu, jim_p@poultry.poulsoci.ncsu.edu

Carrying out R&D on the optimization of biogas by anaerobic digestion of poultry waste with a plug-flow system as well; isolation and sequencing of the kerinase gene from *Bacillus licheniformis*; development of transgenic poultry using embryonic chimeras and embryonic stem cells; gene expression in the early avian embryo; molecular biology of reproduction in poultry.

University of North Carolina

School of Medicine

Manning Drive, Chapel Hill, NC 27514.

Studying latent DNA in Epstein-Barr virus, role of episomes in oncogenic process and viral structure using restriction enzyme analysis. Also studying cytomegalovirus, transcription of the herpes virus genome and organization of *Bacillus* genes.

Novo Nordisk Biochemicals Inc

S.R. 1003, Box 576, Franklinton, NC 27525.

Tel: 919 494 2014 Fax: 919 494 5465

Markets industrial enzymes, including proteases and amylases. Has produced recombinant lipolase (detergent enzyme). Developing monoclonal antibody-based human in vitro diagnostics, as well as production systems for monoclonal antibodies, cellular growth factors and insulin. Subsidiary of Novo Industri, Denmark.

Organon Teknika Corp

100 Akzo Ave, Durham, NC 27704.

Tel: 919 620 2000/800 682 2666

Fax: 919 620 2107

Major international healthcare company producing medical diagnostics and other high technology products including a diagnostic test for antibodies to HIV antigen in serum or plasma. Also produces microbial enzymes including peroxidase substrates for ELISA, immunoblotting and immunohistological staining (see Organon International, Netherlands). Subsidiary of Akzo, Netherlands.

Pfizer Inc

PO Box 10640, Southport, NC 28461.

Tel: 919 457 5011

Leading manufacturer of fermentation products including organic acids, antibiotics, enzymes and microbial polymers, sorbose, xanthan, antibiotics and tetracycline. Major producer of bulk industrial enzymes, including protease, lipases, carbohydrases etc. Has active programme of strain selection supplemented by genetic engineering methods, including cell fusion and recombinant DNA technology. Manufacture citric acid by bulk fermentation at NC site. Also produce water treatment products.

Pharmagene

607 East Kingston Ave, Charlotte, NC 28203.
Tel: 704 374 1224

Using site-specific recombinant processes to develop patentable technology and products such as cell lines.

PuriDyne Inc

3216 Wellington Court, Suite B, Raleigh, NC 27615.
Tel: 919 846 7887

Market an air purification system. Carrying out R&D on antimicrobial products.

Quintiles Transnational Corp

PO Box 13979, Research Triangle Park, NC 27709-3979.
Tel: 919 941 2888 Fax: 919 941 9113/6258

Contract research organization providing a broad range of integrated product development services on a global basis for biotechnology and pharmaceutical companies developing human therapeutics, diagnostics and medical devices. Services include clinical trials management, data management, biostatistical analysis, centralized clinical trial laboratory, pre-clinical testing, study design, strategic and regulatory consulting and health economics consulting. Implements time-saving drug development techniques for enrolling patients and collecting and processing clinical trials data. Has 14 operations centres located in 8 countries throughout Europe, North America and the Asia-Pacific region.

Research Triangle Institute

3040 Cornwallis Rd, Research Triangle Park, NC 27709.
Tel: 919 541 6000

Research organisation offering basic R&D facilities and services in the application of biotechnical procedures to product development.

Revco Scientific Inc

275 Aiken Rd, Asheville, NC 28804.
Tel: 704 658 2711/800 252 7100
Fax: 704 645 3368

Manufactures ultra-low temperature freezer and cold storage systems including blood bank equipment, laboratory refrigerators and freezers and carbon dioxide incubators.

Rhone-Poulenc Ag Co

PO Box 12014, Research Triangle Park, NC 27709.
Tel: 919 549 2000

US representative of Rhone-Poulenc, France coordinating the company's research activities in the US.

Rural Advancement Foundation International

PO Box 655, Pittsboro, NC 27312.
Tel: 919 542 1396

Private non-profit research and advocacy organization concerned with the problem of the loss of genetic diversity in agriculture. Focus on socio-economic impacts of agricultural biotechnology.

Sarstedt Inc

PO Box 468, Newton, NC 28658-9900.
Tel: 704 465 4000/800 257 5101
Fax: 704 465 4003

Supply plastic ware and disposables including micro tubes.

SCI Development Corp

3 Sedgewood Rd, Chapel Hill, NC 27514.
Tel: 919 929 3688

Carrying out research and development on novel biotechnical measurement techniques including a procedure for in situ measurement of the mineral concentration of sweat.

SLT Labinstruments

PO Box 13953, RTP, NC 27709.
Tel: 919 361 5200/800 338 3226
Fax: 919 361 5201

Manufacturers of automated microplate readers, washers and diluter/dispensers. Specialize in high-throughput applications. A Tecan company.

Sphinx Pharmaceuticals Corp

Two University Place, PO Box 52330, Durham, NC 27717.
Tel: 919 489 0909 Fax: 919 489 9093

Develop pharmaceuticals based upon knowledge of lipid biochemistry and lipid regulated signal transduction processes. The technology has applications for the development of novel pharmaceuticals for treatment of significant disease states involving cell growth and regulation.

Stovall Life Science Inc

1621 S College Park Drive, Greensboro, NC 27403.
Tel: 919 378 0000 Fax: 919 378 1647

Supply roller apparatus for cell culture, blotting systems and agitation of blood products and small tubes.

Sun Brokers Inc

PO Box 2230, Wilmington, NC 28402.
Tel: 919 763 3694/800 LAB VIAL (522 8425)
Fax: 919 762 4942

Distributor of gas/liquid chromatography and general laboratory accessories, including glass and plasticware.

Takeda Chemicals Products USA Inc

101 Takeda Drive, Wilmington, NC 28401.
Tel: 919 762 8666 Fax: 919 762 6846

Using biotechnological process for manufacture of fine chemicals.

Tecan US Inc

PO Box 13953, Research Triangle Park, NC 27709.
Tel: 919 361 5200 Fax: 919 361 5221

Supply microplate instrumentation for ELISA immunodiagnosics, software, fluorescence photometers and western blot instrumentation (see SLT Labinstruments GmbH, Austria).

TNS Mills Inc

Biotechnology Division
P.O. Box 2348, Hendersonville, NC 28793.
Tel: 704 693 8009 Fax: 704 692 9488

Produces shiitake mushrooms and fungal spawn using cell and tissue culture techniques.

Touch Scientific Inc

8600 Jersey Court, Raleigh, NC 27612.
Tel: 919 787 7282 Fax: 919 787 6390

Developing rapid diagnostic tests for the ophthalmic market, based upon using a 2 microlitre sample, giving results in five minutes.

Tri-Point Medical LP

formerly CRX Medical Inc

5265 Capital Blvd, Raleigh, NC 27604.
Tel: 919 876 7800 Fax: 919 790 1041

Carry out research and development of cyanoacrylate polymers as well as cyanoacrylate adhesives for medical and veterinary use.

Triangle Biomedical Sciences Inc

2604-G Carver St, Durham, NC 27705-2746.
Tel: 919 477 9283 Fax: 919 477 5883

Develop and market instruments and disposable clinical laboratory equipment and use in enzymology and immunohistology procedures.

Triangle Research and Development Corp

PO Box 12696, Research Triangle Park, NC 27709.
Tel: 919 781 8148 Fax: 919 781 8483

Undertake contract research, development, testing and evaluation of new and advanced devices and systems related to medicine and other technologies, including endoscopic radioisotope implant capsule and hyperthermia for cancer therapy, injury intervention and protection systems for the elderly and children, emergency IV therapy, laser catheter, advanced microscopy and cystic fibrosis percussive pack.

Trinity Laboratories Inc

7517 Precision Dr., Ste. #102, Raleigh, NC 27606.
Tel: 919 737 3637 Fax: 919 737 3407

Develops diagnostics for diabetes and autoimmune diseases, viruses and mononucleosis heterophile antibodies.

Wallace Menhaden Products Inc

Marine Chemurgics - Research & Development
1832 J Bell Lane (Ocean), Newport, NC 28570.
Tel: 919 393 2198

Research company developing feed, food and medical products derived from fish oils and proteins.

Wastek Corp

PO Box 12, Pittsboro, NC 27312.
Tel: 919 542 5411 Fax: 919 542 4955 call first

Supply biotechnological formulations for processes of biodegradation and recycling of industrial and municipal wastes.

Watauga Herb Co

PO Box 2168, Boone, NC 28607.
Tel: 704 262 5358 Fax: 704 262 0655

Perform tissue culture, selection and propagation of herbal plant species for crop cultivation as a source of herbal extracts. Offer custom extraction.

Webb Technical Group Inc

4325 Pleasant Valley Rd, Suite 110, Raleigh, NC 27612.
Tel: 919 787 9171 Fax: 919 781 5283

Carry out R&D and analysis related to microbiological processes and offer consultation in the applications of genetic engineering to the food and environmental sectors. Offer analytical services including chemical analysis of water and waste products and samples.

Wellcome Diagnostics Research Laboratories

3030 Cornwallis Road, Research Triangle Park, NC 27709.
 Tel: 919 248 4185/800 334 8570
 Fax: 919 549 0807

Supplies pharmaceutical and clinical diagnostic microbiological test kits.

YMC Inc

3233 Burnt Mill Drive, Wilmington, NC 28403.
 Tel: 910 762 7154/ 800 YMC 6311
 Fax: 901 343 0907

Produce columns, supports and packings for the chromatographic analysis and purification of biomolecules including peptides, proteins and enzymes.

North Dakota — ND

AGVISE Laboratories Inc

PO Box 510, Northwood, ND 58267.
 Tel: 701 587 6010 Fax: 701 587 6013

Undertake testing and analytical services in the following areas: plant tissue culture; seed germination; agricultural research and development; pesticide testing; microbiological testing.

North Dakota State University Agricultural Experiment Station

Department of Botany

Fargo.
 Tel: (701) 237 7209

Studying organization of chloroplasts in terms of genetic regulation, synthesis, turnover and senescence in wheat.

Ohio — OH

Ajax Magnethermic Corporation

1745 Overland Avenue, Warren, OH 44482.

Produce anaerobic culture systems.

American Research Products Co

AMRESCO

30175 Solon Industrial Parkway, Solon, OH 44139.
 Tel: 216 349 2802/800 448 4442
 Telex: 985582 amresco Fax: 216 349 1182

Carrying out DNA/RNA hybridization. Supply speciality chemicals for biotechnology, research and industry as well as clinical diagnostic reagents. Produce bulk enzymes and enzyme substrate preparations and reagents including amino acids, dyes, dye intermediates, buffers, salts, stains, biological stains, electrophoresis chemicals and chelating agents.

AMRESCO Inc

30175 Solon Industrial Pkwy, Solon, OH 44139-9827.
 Tel: 216 349 1313/800 448 4442
 Telex: 985582 amresco Fax: 216 349 1182

Supplies speciality chemicals for biotechnology, research and industry as well as clinical diagnostic reagents. Products include enzymes, stains, analytical reagents and products for electrophoresis as well as in vitro diagnostics.

Analog & Digital Peripherals Inc

PO Box 499, Troy, OH 45373.
 Tel: 513 339 2241 Fax: 513 339 0070

Supply computer control and data acquisition systems for gas chromatography and HPLC. Tape backup system for PC and laptops supplied. Also supply portable rewritable optical disk systems from 230 Mb to 1.3 Gig over RS232, parallel or SCSI port.

Anatrace Inc

1280 Dussel Drive, Maumee, OH 43537.
 Tel: 419 891 3030

Offer services in custom protein purification and derivatization, preparation of conjugated products and immobilization of biochemical species.

Ashland Chemical Inc

PO Box 2219, Columbus, OH 43216.
 Tel: 614 889 3333 Telex: 245343
 Fax: 614 889 4119

Manufactures and markets a complete range of high purity speciality chemicals and reagents as well as industrial chemicals and solvents.

The Austin Company

3650 Mayfield Rd, Cleveland, OH 44121.
 Tel: 216 382 6600 Fax: 216 291 6684

Offers services in design, engineering, procurement, and construction of fermentation facilities for food, pharmaceuticals, agrochemicals, enzymes, genetically engineered products and amino acids.

Battelle Memorial Institute

505 King Avenue, Columbus, OH 43201-2693.
 Tel: 614 424 6424 Telex: 245454

Pacific Northwest Laboratories: PO Box 999, Battelle Blvd, Richland WA 99352.
 Tel: 509 375 2267 Tx: 326345

Carries out contract research, multiclient studies and basic investigations on separation and conversion techniques. Biotechnology interests include genetically engineered organisms for degrading toxic chemicals, vaccines for animal use, monoclonal antibodies for diagnostic applications and plant tissue culture applied to sweet sorghum, guayule, milkweed and other potential biomass energy crops. Also interested in isolation, production, immobilization and use of enzymes, plant genetics, and in cell culture of plant, animal and human cells and tissues. Undertaking studies in genetic engineering and use of plasmids, virus and other vectors as well as isolation of mRNA for cloning and drug targeting.

Bicron

12345 Kinsman Rd, Newbury, OH 44065.
 Tel: 216 564 2251 Telex: 980474
 Fax: 216 564 8047

Manufacture radioactive isotope counters.

BP American Inc

Technical Information Centre Warrensville Research and Environmental Science Centre

4440 Warrensville Center Road, Cleveland, OH 44128.
 Tel: 216 581 5600 Fax: 216 581 5600

Ohio Research Center: 3092 Broadway Avenue, Cleveland, OH 44106

Has research programme on crop breeding, including aspects of genetic engineering.

Charles F Kettering Research Laboratory

150 East South College Street, Yellow Springs, OH 45387.
 Tel: 513 767 7271

Studies include investigation on production of glucose syrup by hydrolysis of cellulosic raw materials.

Chemical Abstracts Services

2540 Olentangy River Rd, Columbus, OH 43202.
 Tel: 614 447 3600 Fax: 614 447 3713

Supply databases of biosequences, proteins and peptides, nucleic acids, patents and life sciences.

Chemineer Inc

PO Box 1123, Dayton, OH 45401.
 Tel: 513 454 3200/800 243 8160

Manufacture and supply equipment for gas handling.

Ciba-Corning Diagnostics Corp

Gilford Systems

132 Artino St, Oberlin, OH 44074.
 Tel: 216 774 1041/800 445 3673
 Telex: 4332091 gilford Fax: 216 774 3939

Supply automated and other analyzers, computer software systems for clinical testing, reagents, standards and controls for immunology, including RIA, and clinical chemistry.

Cincinnati Sub Zero Products Inc

12011 Mosteller Rd, Cincinnati, OH 45241.
 Tel: 513 751 8810 Telex: 214390
 Fax: 513 772 9119

Manufacture constant temperature chambers.

Columbus Instruments International Corp

950 North Hague Avenue, PO Box 44049, Columbus, OH 43204.
 Tel: 614 276 0861/800 669 5011
 Telex: 246514 Fax: 614 276 0529

Manufacture oxygen uptake measuring equipment (respirometers) used to measure biological activity in food, grain products, tissue cultures, bacteria contamination etc. Also supply laboratory animal behavioural and physiological equipment and computer image analyzers.

Diagnostic Hybrids Inc

One President St, Athens, OH 45701.
 Tel: 614 593 1784 Fax: 614 593 0186

Develop DNA probe-based clinical and research virology products including a one day test for herpes virus and antiviral susceptibility testing.

Duriron Corp Inc

Box 8820, Dayton, OH 45401.
 Tel: 513 476 6100 Fax: 513 476 6204

Manufactures a complete line of corrosion-resistant pumps, valves, actuation packages, metering pumps and filters.

Edison BioTechnology Center

University Circle Research Center, 11000 Cedar Ave, Cleveland, OH 441206.
 Tel: 216 229 0400

Promotes the development of biotechnology-based business in Ohio especially related to biomedical applications including diagnostics, bioprocesses, biomaterials and innovative medical/health care devices.

Part II Ohio — OH UNITED STATES OF AMERICA

EG&G Mound Applied Technologies

Stable Isotopes Sales

PO Box 3000, Miamisburg, OH 45343-3000.
Tel: 513 865 3501 Fax: 513 865 3164

Specializes in the distribution of stable isotopes and radioisotopes of ^3He and tritium respectively.

Forma Scientific Inc

Mill Creek Rd, PO Box 649, Marietta, OH 45750-0649.

Tel: 614 373 4763/800 848 3080
Telex: 298205 fsin Fax: 614 373 6770

Manufactures and supplies safety cabinets and workstations. Other products include incubators, freezers and laboratory refrigerators, blood bank and laminar flow equipment, washers, baths and circulators.

Geltech Inc

934 Salem Parkway, Salem, OH 44460-0313.

Tel: 216 337 9944/800 543 5832
Fax: 216 337 9947

Supply chromatography columns, electrophoresis equipment and bench centrifuges.

General Environmental Science Corp

29603 Hall St, Solon, OH 44139.

Tel: 216 248 4601 Telex: 297631 llmo ur
Fax: 216 248 7175

Produces liquid bacterial suspensions for use in wastewater treatment pollution control.

Gilford Instrument Laboratory

Artino Street, Oberlin, OH 44074.

Tel: 216 744 1041

Manufactures spectrophotometers and other laboratory apparatus including scanning densitometers for use with slabgels, autoradiograms and thin layer chromatographic plates, working in transmission, reflectance and fluorescence modes. Data outputs can be to computers, integrators or strip chart recorders.

Gilson Co Inc

PO Box 677, Worthington, OH 43085.

Tel: 614 548 7298/800 444 1508
Fax: 800 255 5314

Supply general laboratory equipment including particle size and sampling analyzers.

Gliatech Inc

23420 Commerce Park Rd., Beachwood, OH 44122.
Tel: 216 831 3200 Fax: 216 832 4220

Produces therapeutics for treatment of acute trauma to CNS, focusing on scar reduction following nerve regeneration.

ISK Biosciences Corporation

5966 Heisley Rd, PO Box 8000, Mentor, OH 44061-8000.

Tel: 216 357 4100 Fax: 216 354 9506

Manufactures and markets a variety of agri and speciality chemical products.

Isolab Inc

Drawer 4350, Akron, OH 44321.

Tel: 216 825 4525/800 321 9632
Telex: 986475 Fax: 216 825 8520

Supplies precast gels and equipment for electrophoresis, including neonatal screening and cultivar identification kits, as well as diagnostic assays for glycosylated haemoglobins, thalassemias and others, plus acrylics and disposable products for use in chromatography and radioassay procedures.

Isotec Inc

3858 Benner Road, Miamisburg, OH 45342.

Tel: 513 859 1808/800 448 9760
Telex: 288278 Fax: 513 859 4878

Supply stable isotope labelled compounds (deuterium, carbon-13, nitrogen-15, oxygen-17, oxygen-18) for research and industry.

JACO Mfg Co

468 Geiger St, Berea, OH 44017.

Tel: 216 234 4000 Fax: 216 234 7007

Supply a wide range of plastic fittings.

Jarrow-Lloyd Pharmaceutical Co

2025 Riverside Dr. Ste. 100, Columbus, OH 43221.

Tel: 614 546 0654 Fax: 614 486 6640

Develops diagnostics for cancer, leukemia and lymphoma.

Kroger Co

1014 Vine Street, Cincinnati, OH 45201.

Tel: 513 762 4000

Dairy product manufacturer producing lactose and bakers' yeast from whey, as well as whey protein concentrates as food ingredients in joint venture with Corning Glass Works, US.

Lubrizol Enterprises Inc

29400 Lakeland Boulevard, Wickliffe, OH 44092.

Tel: 216 943 4200

Investment subsidiary of Lubrizol Corp, US which manufactures additives for lubricants.

Medisorb Technologies International LP

6990 Cornell Rd, Cincinnati, OH 45242.

Tel: 513 489 7181 Fax: 513 489 8095

Develops and manufactures bioabsorbable polymers for controlled-release delivery of therapeutics and vaccines. A subsidiary of Stolle and DuPont.

Meridian Diagnostics Inc

3471 River Hills Drive, Cincinnati, OH 45244.

Tel: 513 271 3700/800 543 1980
Telex: 990796 mer diag Fax: 513 271 3762

Supplies diagnostic test kits for clinical use, monoclonal and polyclonal antibodies, immunodiffusion equipment and reagents.

Molecular Data Corp

2869 Scarborough Rd, Cleveland, OH 44118.

Tel: 216 381 6328/932 4718 Fax: 216 932 4718

Manufacture elemental analyzers, X-ray equipment, radioactivity detectors and ratemeters. Offer research, development and production services.

The Munhall Co

5655 North High Street, Worthington, OH 43085.

Tel: 614 888 7700/800 CHROMAX
Telex: 510 100 8330 Fax: 614 846 4175

Produce gene sequencing equipment and reagents, DNA synthesizers, particle size analyzers and equipment and accessories for liquid chromatography and HPLC.

Neoprobe Corp

8000 Ravines Edge Ct., Worthington, OH 43235.

Tel: 614 786 7180 Fax: 614 786 7188

Develops radiolabelled MABs as diagnostics for cancer and hand-held gamma radiation detection equipment.

Oak Technical Inc

4835 Darrow Road, Stow, OH 44224-1431.

Tel: 216 342 9800 Fax: 216 342 9877

Supplies laboratory products including powder-free disposable gloves designed to minimise contamination.

Ohio State Biotechnology Center

206 Rightmire Hall, 1060 Carmack Rd, Columbus, OH 43210-1002.

Tel: 614 292 5670 Fax: 614 292 5379

Provide a coordinated interdisciplinary programme in biotechnology drawing on resources of existing programmes in Colleges of Agriculture, Biological Sciences, Chemistry, Engineering, Medicine, Veterinary Medicine and Pharmacy. Active research focuses on plant biotechnology, medical biotechnology, molecular structures and transgenic plant and animals.

Ohio State University

Department of Biochemistry

484 West 12th Ave, Columbus, OH 43210-1292.

Tel: 614 292 6771 Fax: 614 292 6773

Research is underway on biological control, including aspects of the expression of insecticidal proteins in plants and plant symbionts as well as investigating the mechanisms of insect specificity of insecticidal protein toxins. Protein engineering is being employed to investigate the mechanism of enzyme catalysis, protein folding, and DNA-protein interactions. Research to understand the molecular basis of myotonic muscular dystrophy is also being pursued.

Ohio University

Edison Animal Biotechnology Center

Wilson Hall/West Green, Athens, OH 45701.

Tel: 614 593 4713 Fax: 614 593 4229

Links three universities and their corporate affiliates to enable commercialization of whole-animal biotechnology with the focus on production and transfer of genes for agriculture and biomedical applications.

Ohio Valley Speciality Chemical Inc

115 Industry Road, Marietta, OH 45750.

Tel: 614 373 2276 Telex: 3775221
Fax: 614 373 9910

Supplies reagents for gas chromatography, including liquid phases, column packings and silylation reagents.

OWS Inc

3155 Research Blvd, Dayton, OH 45420.

Tel: 513 253 6888 Fax: 513 253 3455

Offer services in product biodegradability and bioremediation laboratory testing; compost maturity; design and construction of anaerobic composting processes (see Organic Waste Systems nv, Belgium).

Pharmacia Inc

PO Box 16529, Columbus, OH 43216.

Tel: 614 764 8100 Fax: 614 764 8102

Produces anticancer drugs (adriamycin, doxorubicin hydrochloride), cardiovascular products and topical analgesics. Expanded research facilities include work on AIDS related complex.

Procter & Gamble

Miami Valley Laboratories
PO Box 39175, Cincinnati, OH 45247.
Tel: 513 562 1100

Manufacture detergent products with enzymes.

Radiometer America Inc

811 Sharon Drive, Westlake, OH 44145.
Tel: 216 871 8900/800 736 0600
Fax: 216 871 8117

Manufactures pH meters and electrodes as well as fully automated analyzers for carrying out wet chemical tests and bacterial identification and antibiotic susceptibility fluorescent systems.

Raphael Katzen Associates International Inc

7162 Reading Road, Suite 1200, Cincinnati, OH 45237.
Tel: 513 351 7500 Telex: 810 461 2930
Fax: 513 351 0810

Undertakes engineering consultancy and project management in areas of energy, pollution abatement, chemicals and fuel production, including production of ethanol by fermentation for fuel, potable and industrial uses.

Research Organics Inc

4353 East 49th Street, Cleveland, OH 44125.
Tel: 216 883 8025/800 321 0570
Fax: 216 883 1576

Manufactures biochemicals for research and diagnostics.

Ricerca Inc

7528 Auburn Rd, PO Box 1000, Painesville, OH 44077-1000.
Tel: 216 357 3442 Telex: 196212 ricerca
Fax: 216 354 4662

Carry out contract research in the agricultural, pharmaceutical and speciality chemicals industries including fermentation and related data acquisition, process development, nutrient optimization, engineering and analytical support, evaluation of microbial pest control agents, toxicology testing, environmental sciences, animal metabolism and synthetic chemistry.

Schwartz/Mann Biotech

PO Box 28050, Cleveland, OH 44128.
Tel: 216 831 3000/800 431 2800

Manufactures nylon transfer membranes suitable for use in northern, southern and western blotting procedures as well as for dot blots, colony lifts and plaque lifts.

So-Low Environmental Equipment Co Inc

10310 Spartan Drive, Cincinnati, OH 45215.
Tel: 513 772 9410 Fax: 513 772 0570

Produces laboratory freezers and refrigerators.

Springborn Laboratories Inc

Life Sciences Division

553 North Broadway, Spencerville, OH 45887.
Tel: 419 647 4196 Fax: 419 647 6560

Environmental Sciences Division: 790 Main St, Wareham, MA 02571.
Tel: 508 295 2550 Fax: 508 295 8107

Offer toxicological and environmental safety testing services.

Swagelok Co

31400 Aurora Rd, Solon, OH 44139.
Tel: 216 349 5934 Fax: 216 349 5843

Supply valves, vials, tubing and connectors suitable for biotechnology systems.

Synchem Inc

220 Lena Drive, PO Box 411, Aurora, OH 44202.
Tel: 216 562 7663/800 882 9267
Fax: 216 562 7691

Supply biochemicals, RNA and DNA synthesis reagents and chemicals for plant tissue culture.

Technology Unlimited Inc

PO Box 723, 146 S Bever, Wooster, OH 44691.
Tel: 216 262 3600 Fax: 216 264 5464

Develops and produces MAb-based delivery systems for cancer therapeutics, sialic acid-coated liposomes which are able to bypass the immune system, and insect repellents.

Tekmar Co

PO Box 429576, Cincinnati, OH 45242-9576.
Tel: 513 247 7000 Telex: 214221
Fax: 513 247 7050

Manufacture high shear dispensers and homogenizers from lab to full scale production capacity.

TopoGEN Inc

PO Box 20607, Columbus, OH 43220.
Tel: 614 265 9385/800 837 7911
Fax: 614 268 8010

Specialize in production and marketing of topoisomerases and drug screening and assay kits. Offer custom services in detection and screening of potential inhibitors.

United States Biochemical Corp

USB

PO Box 22400, 26111 Miles Rd, Cleveland, OH 44128.
Tel: 216 765 5000/800 321 9322
Telex: 980718 us bio
Fax: 216 464 5075/800 5350898

Supplies molecular weight standard protein kits for high performance liquid chromatography and sodium dodecyl sulphate electrophoresis as well as over 7000 different biochemicals including amino acids, nucleotides, enzymes, coenzymes, vitamins and buffers. Enzymes for use in molecular biology include a wide range of restriction endonucleases, RNA polymerases and DNA polymerases and kits, polynucleotide kinase etc. Also produces reagents for cross-linking and modification of reactive groups in solid-phase protein synthesis. Agents for Marine Biochemicals, Norway fish peptones and protein hydrolyzates.

United States Biochemical Corp

Instrument Division

PO Box 22400, Cleveland, OH 44122-9619.
Tel: 216 765 5000/800 321 9322
Fax: 216 464 5075/800 5350898

Markets a fully automated scanning system with applications in DNA sequencing and other laboratory data analysis procedures.

YSI Inc

1725 Brannum Lane, PO Box 279, Yellow Springs, OH 45387.
Tel: 513 765 4974 Telex: 205437
Fax: 513 767 9353

Manufactures and markets industrial and clinical analyzers for the measurement of glucose, L-lactate, alcohol, sucrose, lactose and starch. Products are based on immobilized enzyme technology and a linear electrochemical sensor. Also manufactures a two channel biological monitor used to measure oxygen uptake or evolution.

Zaxis Inc

1658 State Rd, Cuyahoga Falls, OH 44223.
Tel: 216 928 6500

Produces precast polyacrylamide gels and electrophoresis equipment for educational and research applications. Also produces hydratable copolymer elastomers for use as fishing lures and plant root feeding systems.

Oklahoma — OK

BioSpec Products Inc

PO Box 722, Bartlesville, OK 74005-0722.
Tel: 918 336 3363 Fax: 918 336 3363

Manufactures novel cell disrupters for microorganisms and for plant and animal tissues, mixers, stirrers, shakers and rotators.

Immuno-Mycologies Inc

PO Box 1151, Norman, OK 73070.
Tel: 405 288 2383/800 654 3639
Telex: 650 162 5015 mci Fax: 405 288 2228

Produce fungal diagnostic test kits and reagents.

Oklahoma State University Agricultural Experiment Station

Department of Biochemistry
454 PS, Stillwater, OK 74075.
Tel: 405 744 5398

Developing use of bioluminescent reactions for sensitive detection of ATP in water, soil, milk etc. Determining mechanisms of pathogenesis of Brucella in cattle, Kautuomonas in cotton, cauliflower mosaic virus in turnips and Arabidopsis. Also studying use of cauliflower mosaic virus as a vector for gene transfer. Developing methods for structural analysis of polysaccharides and their application to components of plant cell walls. Investigating basic mechanisms of energy transduction in plant and animal systems.

University of Oklahoma

Department of Botany and Microbiology

Norman.
Tel: 405 325 4321 Fax: 405 325 7619

Studying bioremediation and environmental toxicology.

Provesta Corp

15 Phillips Building, Bartlesville, OK 74004.
Tel: 918 661 5281/800 233 1811
Telex: 492455 Fax: 918 662 2208

Produces fermentation-based products for the flavour ingredient, animal feed and aquaculture markets. Joint venture partner with Dow Corning Enterprises in AgriSense, a producer and marketer of biological pesticides. Subsidiary of Phillips Petroleum Co, US.

Part II Oregon — OR UNITED STATES OF AMERICA

Symex Corp

P.O. Box 690355, Tulsa, OK 74169.
Tel: 918 251 1333 Fax: 918 251 8111

Develops diagnostics.

Oregon — OR

Agritope Inc

8505 SW Creekside Place, Beaverton, OR 97005.
Tel: 503 641 6115 Fax: 503 643 2781

Developing plant diagnostics, producing new plant stock by micropropagation, and carrying out gene transfer in plants.

Alcohol Fuels Producers' Association

510 South First Street, Hillsboro, OR 97123.

Alpkem Corp

PO Box 1260, Clackamas, OR 97015.
Tel: 503 657 3010 Telex: 910 380 9084
Fax: 503 657 5288

Supplies reagents, reference serum, EIA equipment, clinical analyzers and test kits, dialyzers and membranes, fluorometers, UV/VIS spectrophotometers and accessories.

American Bioclinical Inc

4432 SE 16th Avenue, Portland, OR 97202-4705.
Tel: 503 233 5216/800 547 3686
Telex: 910 464 4792 Fax: 503 239 2756

Produces diagnostic kits and immunological reagents including antisera and antibodies to drugs, hormones and serum proteins. Products under development include radioimmunoassay kits, monoclonal antibodies, non-isotopic tests including a test for LH/FSH and visual HCG.

ANTI-Gene Development Group

990 S.E. Marion, Corvallis, OR 97333.
Tel: 503 753 3133

Markets viral therapeutics.

Antivirals Inc

4575 SW Research Way, Suite 200, Corvallis, OR 97333.
Tel: 503 753 3635 Fax: 503 754 3545

Business Development Office Tel: 503 227 0554.

Develops novel DNA analogs including 'neu-genes' (morpholino-type antisense agents) which offer 'greater specificity, better binding to DNA and RNA targets and more effective inhibition of translation.' Is seeking partners to co-develop 'neu-gene' therapeutics for selected diseases.

Bend Research Inc

64550 Research Rd, Bend, OR 97001-8599.
Tel: 503 382 4100 Telex: 517787

Carrying out research and development of separation systems, biosensors and immobilized enzyme products.

Bentech Laboratories

14424 SE Industrial Way, Clackamas, OR 97015.
Tel: 503 652 2333

Developing products for agriculture and plant growth which include a crop yield enhancing agent, antifungals and a wound healing treatment.

Bio-Molecular Dynamics

PO Box 668, Beaverton, OR 97075.
Tel: 503 626 6290

Manufactures liquid filtration products.

Biolink Technologies Inc

5987 Sun Creek Dr, Lake Oswego, OR 97035.
Tel: 206 694 2300

Produce diagnostics, immunostains and an automated cytometer.

Consep Inc

213 SW Columbia St, Bend, OR 97702-1013.
Tel: 503 388 3688/ 1 800 367 8727

Fax: 503 388 3705

Develops, manufactures and markets 'environmentally safe' pest control products for domestic and agricultural use. Products are based on controlled-release membrane delivery systems (such as microcapsules, asymmetrical beads and thin-film reservoirs). These include: disruption products for the control of pink bollworm, oriental fruit moth, tomato pinworm and codling moth (similar products for control of peach twig borer, leaf rollers and aphids are also planned); pheromone lures for monitoring and trapping various insects; and a range of pest control products for use in domestic gardens.

Epitope Inc

8505 SW Creekside Place, Beaverton, OR 97005.
Tel: 503 641 6115/800 234 EPTO
Fax: 503 643 2781

Research company creating pharmaceutical, agricultural and industrial products through genetic engineering technologies. Developing viral detection kits, including Western blot and MAB to HIV. Have joint venture with Ingene Inc, US.

Executives Worldwide

158 NE Greenwood Ave, PO Box 145, Bend, OR 97708.
Tel: 503 385 5405 Fax: 503 385 5407

Professional and technical recruiting service specializing in professionals from the environmental engineering, biotechnology and associated legal fields.

Interfacial Dynamics Corp

4814 N.E. 107th Ave., Ste. B, Portland, OR 97220.
Tel: 503 256 0076 Fax: 503 255 0989

Produces latex microspheres as substrates for human and veterinary diagnostics.

Kirkman Laboratories Inc

PO Box 3929, Portland, OR 97208.
Tel: 503 245 4551 Telex: 277331 smauid 132
Fax: 503 245 4551

Supplies reagents and laboratory ware for medical applications.

Marigenetics Inc

800 NW Starker Ave., Suite 22, Corvallis, OR 97330.
Tel: 503 757 2923 Fax: 503 758 7319

Develops biologicals, immunomodulators and vaccines for use in aquaculture.

Mini-Mitter Co Inc

PO Box 3386, Sunriver, OR 97707.
Tel: 503 593 8639 Fax: 503 593 5604

Supply dataloggers and instruments for monitoring physiological parameters (e.g., temperature, heart rate, etc) of humans, mice and other animals.

Molecular Probes Inc

4849 Pitchford Ave, Eugene, OR 97402-9144.
Tel: 503 465 8300 Fax: 503 344 6504

Specializes in reagents, dyes and fluorescent chemicals used to investigate biological structure, function and mechanisms.

Napco Scientific Co

PO Box 1000, 20210 S.W. Teton, Tualatin, OR 97062.

Tel: 503 692 4686 Fax: 503 692 6615

Supply computer controlled carbon dioxide incubators as well as labware washers/dryers, autoclaves and ovens.

National Scientific Co

NAPCO

PO Box 1000, Tualatin, OR 97062.
Tel: 503 692 4686/800 547 2555

Telex: 151144 Fax: 503 692 6615

Manufactures incubators, water baths, ovens and autoclaves etc.

Oligos Etc Inc

29970 South West Town Centre, Loop West, Suite B419, Wilsonville, OR 97070.

Tel: 800 888 2358/201 763 1972

Fax: 800 869 0813/203 4383637

Tech Info: 203 426 4075.

Provide services in DNA/RNA synthesis, antisense technology, megascale synthesis, long and ultra long oligos, HPLC purification and technical support.

University of Oregon

Institute of Molecular Biology

Eugene.

Tel: 503 346 5151 Telex: 5105970354
Fax: 503 346 5891

Isolating cDNA from yeast (*Saccharomyces*) and use of plasmids in yeast genetics.

University of Oregon

Department of Chemistry

Johnson Hall, Eugene, OR 97403.

Studying control of endorphins and hynorphin in RNA synthesis in pituitary cells, synthesis of cDNA from RNA and sequencing to obtain gene structure.

University of Oregon

Advanced Science & Technology Institute

318 Hendricks Hall, Eugene, OR 97403.

Tel: 503 686 3189 Fax: 503 686 3127

Links the research faculty at Oregon State University and the University of Oregon with collaborative industrial partners for biotechnology transfer in areas of molecular biology, genetics and neurosciences.

Sheldon International Inc

PO Box 19051, Portland, OR 97280.

Tel: 503 640 3000 Fax: 503 640 1366

Products include a carbon dioxide incubator.

Synthetech Inc

1290 Industrial Way, PO Box 646, Albany, OR 97321.

Tel: 503 967 6575 Fax: 503 967 9424

Manufacturer of peptide building blocks including speciality amino acids, amino alcohols and other derivatives on a bulk, multi-kilo to ton scale. Products include a wide range of BOC, CBZ and Fmoc amino acid derivatives, a growing line of synthetic D- and L- amino acids (naphthylalanine, pyridylalanine, pentafluorophenylalanine etc) and protected amino alcohols (CBZ-phenylalaninol, BOC-cyclohexylalaninol, BOC-tyrosinol etc).

TCI America

6907 North Harbortgate St, Portland, Oregon 97203.
Tel: 503 283 1681/ 800 423 8616
Fax: 503 283 1987

Manufacture bulk organic chemicals and reagents.
Also custom manufacture speciality organic
chemicals for use in R&D.

Whatman LabSales Inc

5285 NE Elam Young Pkwy, Suite A-400,
Hillsboro, OR 97124.

Produce hand-held polaroid cameras for recording
electrophoresis gels.

Pennsylvania — PA**AAI-ABTECH**

PO Box 376, Yardley, PA 19067.
Tel: 215 321 3256 Fax: 215 321 7099

Involved in R&D and commercialization of
proprietary biosensor-based diagnostics technology
for bioanalytical laboratory, industrial and
environmental monitoring, process monitoring and
biomedical diagnostics applications.

ABEC Inc

6390 Hedgewood Drive, Allentown, PA 18106.
Tel: 215 366 7800 Fax: 215 395 8147

Develop and market products for the food industry
including control systems for fermentation and
custom bioreactors and bioprocessing equipment.

Acme Hardesty Co Inc

Benjamin Fox Pavilion, Suite 910, Jenkintown, PA
19046.

Tel: 215 886 0200 Telex: 845233

Produces fatty acids and hydrogenated glycerides
from animal and vegetable sources.

Advanced Scientifics Inc

R.D. 2 Box 52, Millersburg, PA 17061.
Tel: 717 692 2104 Fax: 717 692 2197

Manufacturer of bovine, equine, ovine blood and
sera for cell culture and diagnostic use, customised
blood collection bags and patented aseptic
connector system for closed collection and
processing.

Air Products and Chemicals Inc

Specialty Gas Department

7201 Hamilton Blvd, Allentown, PA 18195-1501.
Tel: 215 481 4911/800 752 1597
Telex: 847416 Fax: 215 481 5036

Supplies bulk gases as well as gas handling
equipment, pressure regulators, calibration
standards, carrier gases, gas mixtures and laboratory
gases including rare gases.

Alfa Laval Separation Inc

955 Mearns Rd, Warminster, PA 18974.
Tel: 215 443 4000 Fax: 215 443 4112

Supplies a range of process plant and separation
equipment including pilot plant scale continuous
centrifugal separators, evaporators and heat
exchangers. Subsidiary of Alfa Laval AB, Sweden.

Alfred Benzon Inc

1629 Locust St, Philadelphia, PA 19103.
Tel: 215 545 1616 Fax: 215 545 5684

Developing processes for large scale expression and
processing of recombinant proteins and
polypeptides by genetic engineering and the use of
runaway replication plasmid technology (RAPT),

replicon stabilization technology (RST) and
proprietary industrial endonuclease of Benzon
Pharma, Denmark.

American Association For Cancer Research Inc

Public Ledger Building, 620 Chestnut St, Suite 816,
Philadelphia, PA 19106-3483.
Tel: 215 440 9300 Fax: 215 440 9313

Professional society of more than 8000 laboratory
scientists and clinicians engaged in cancer research.
Publishes three scientific journals and holds
scientific symposia on various topics in cancer
research as well as an annual meeting and exhibition
of laboratory equipment and supplies and scientific
publications.

American Association of Small Research Companies

9794 West Chester Pike, Upper Darby, PA 19082.

American Society for Testing & Materials

1916 Race St, Philadelphia, PA 19103.
Tel: 215 299 5400

American Sterilizer Co

2424 W 23rd St, Erie, PA 16506.
Tel: 814 452 3100 Fax: 814 870 8341

Manufacture steam generators and equipment for
production of potable, distilled or deionized water
by stainless steel clean steam generation.

Ametek Inc

Process and Analytical Instruments Division

150 Freeport Rd, Pittsburgh, PA 15238.
Tel: 412 828 9040 Telex: 6714789
Fax: 412 826 0399

Supply oxygen analyzers, carbon dioxide analyzers,
detectors and mass spectrometers.

Applied Cytometry Systems

1316 West Chester Pike, Suite 210, West Chester,
PA 19382.
Tel: 215 692 6430

Supply computer software for flow cytometry data
transfer and analysis.

Applied Separations Inc

905 Harrison St, Allentown, PA 18103.
Tel: 215 770 0900 Fax: 215 770 1043

Manufacture separation systems with applications in
the removal of biomolecules from serum samples.

Applied Test Systems Inc

348 New Castle Rd, PO Box 1529, Butler, PA
16003.
Tel: 412 283 1212/800 441 0215
Telex: 866727 Fax: 412 283 6570

Supply laboratory equipment including
environmental chambers, ovens, moisture analyzers
and temperature controllers.

Arco Performance Chemicals Inc

1500 Market Street PO Box 7258, Philadelphia, PA
19101.
Tel: 215 557 2880

Produces bacterial cultures for treatment of effluent
from paper and pulp mills. Subsidiary of Atlantic
Richfield Co, US.

AT Biochem

30 Spring Mill Drive, Malvern, PA 19355.
Tel: 215 889 9300/800 282 4626
Fax: 215 889 9304

Supply electrophoresis equipment, gel concentrates,
DNA markers, buffers, reagents and stains.

**Bachem Bioscience Inc**

Subsidiary of Bachem Feinchemikalien AG,
Switzerland

3700 Horizon Drive, King of Prussia, PA 19406.
Tel: 800 634 3183
Fax: 610 239 0800

Supplier of amino acid derivatives, bioactive
peptides, enzyme substrates and inhibitors, growth
factor, lymphokines and bulk peptide
pharmaceuticals.

B Braun Biotech Inc

999 Postal Rd, Allentown, PA 18103.
Tel: 215 266 6262/800 258 9000
Fax: 215 266 9319

Leading supplier of custom-built production scale,
pilot scale and benchtop fermentation/cell culture
bioreactors. In addition a complete line of accessory
products for the laboratory are offered including
brushless-drive advanced centrifuges, shakers,
homogenizers, freeze dryers and heating/cooling
circulator baths. Also offer an on-line fermentation
diagnosis system.

Baker Instrument Co

100 Cascade Drive, Allentown, PA 18103.
Tel: 215 264 2800 Telex: 510 651 2345

Produces immobilized antibodies. Part of the
Proctor and Gamble Group, US (see Serono Baker
Diagnostics, US).

Benzon Biosystems

Alfred Benzon Inc

1629 Locust St, Suite 300, Philadelphia, PA 19103.
Tel: 215 545 1616
Telex: 5106013423 abenzon Fax: 215 545 5684

Licensing runaway replication plasmid technology
(RAPT) and replicon stabilization technology
(RST) for large scale expression and processing of
recombinant proteins and polypeptides, and
marketing proprietary genetically engineered
endonuclease of Alfred Benzon Inc, a subsidiary of
Benzon Pharma AS, Denmark, for processing and
purification of recombinant proteins and
polypeptides on laboratory and process scale. Also
offer custom cloning, expression systems
development and production programmes.

Berwick Corp

447 Ivyland Rd, Warminster, PA 18974.
Tel: 215 441 4803/800 333 1188
Fax: 215 441 4807

Supply chromogenic substrates, ion exchange
columns, and test kits for enzymes.

Bio-Proteus

P.O. Box 13982, Reading, PA 19612.
Tel: 215 378 5441 Fax: 215 372 3655

Develop yeast-based bioconversion technology for
waste treatment.

Part II Pennsylvania — PA UNITED STATES OF AMERICA

BioChem Technology Inc

100 Ross Rd., P.O. Box 61366, King of Prussia, PA 19406.

Tel: 215 768 9360 Fax: 215 768 9360

Manufacture wastewater treatment equipment including a system for activated sludge management.

Bio/Data Corp

155 Centennial Plaza, PO Box 347, Horsham, PA 19044-0347.

Tel: 215 441 4000/800 257 3282

Fax: 215 443 8820

Supply blood coagulation instruments, reagents, controls and test kits. Supply platelet aggregation instruments, reagents and test kits.

Blomol Research Laboratories Inc

5166 Campus Drive, Plymouth Meeting, PA 19462.

Tel: 215 941 0430 Telex: 910 240 1524

Fax: 215 941 9252

Offer custom synthesis services. Products include antibiotics for culture media, prostaglandins, leukotrienes, platelet activating factors, enzyme inhibitors, signal transduction reagents.

Bioprocessing Resource Center

519 Wartik Laboratory, University Park, PA 16802.

Tel: 814 863 3650/800 863 1357

Provides technical and business services to Pennsylvania biotechnology companies, often on a cost-shared basis. Conducts pilot-scale research and process development. Technical services include pilot plant microbial fermentation (from 1.5 to 300 litres), cell culture (from 1.5 to 60 litres) and downstream processing. Main areas of interest include process and product development, bioprocessing, protein analysis and DNA synthesis. Hands-on workshops in related areas are offered in conjunction with Penn State's Biotechnology Institute.

Bioscience Inc

1550 Valley Center Parkway, Suite 140, Bethlehem, PA 18017.

Tel: 610 974 9693/800 627 3069

Fax: 610 691 2170

Environmental biotechnology firm which develops, manufactures and markets specialized biological products, systems and services for pollution control applications. Products contain specialized microorganisms and selected synergistic ingredients for enhancing their action. Carrying out research on the degradation of oil, tar, and creosote contaminants in soil.

Blotrol USA Inc

113 Brandywine Parkway, West Chester, PA 19380.

Tel: 215 430 8005/800 999 6578

Fax: 215 430 8013

Supply diagnostics, equipment, reagents and standards for EIA.

Blue Lightning Data and Software Inc

30 E Swedesford Rd, Malvern, PA 19355.

Tel: 215 993 9758 Fax: 215 889 1630

Offer information and biomedical software services.

Bodman

PO Box 2421, Aston, PA 19014.

Tel: 610 459 5600/800 241 8774

Fax: 610 459 8036

Supplies equipment for analytical chromatography including HPLC and liquid chromatography systems.

Capital Controls Co Inc

PO Box 211, Colmar, PA 18915.

Tel: 215 822 2901 Fax: 215 822 8640

Manufactures water disinfection and water analysis equipment.

CDS Instruments

Autoclave Engineers-Oxford

7000 Limestone Rd, Oxford, PA 19363.

Tel: 215 932 3636 Telex: 835308

Fax: 215 932 4158

Manufactures analytical instruments for gas chromatography, gas chromatography/mass spectrometry, and FTIR spectrometry, purge and trap and thermal desorption systems.

Centocor Inc

200 Great Valley Parkway, Malvern, PA 19355.

Tel: 215 651 6000 Fax: 215 651 6100

Research and development company using hybridomas, monoclonal antibodies and genetic engineering techniques to produce tumour marker immunological diagnostics in the areas of cancer as well as liver and heart diseases including hepatitis B, and viral infections in humans.

Cephalon Inc

145 Brandywine Parkway, Westchester, PA 193804245.

Tel: 215 344 0200 Fax: 215 344 0065/0918

Developing therapeutics for neurodegenerative diseases including Alzheimer's disease, ALS and stroke. The first potential product is a therapeutic for ALS (Lou Gehrig's disease) called myotrophin.

ChemService Inc

660 Tower Lane, PO Box 3108, West Chester, PA 19381-3108.

Tel: 215 692 3026 Fax: 215 692 8927

Manufactures amino acid and carbohydrate standards.

Chrono-Log Corp

2 West Park Road, Havertown, PA 19083.

Tel: 215 853 1130 Telex: 831579

Fax: 215 853 3972

Manufactures instruments (aggregometers) for the study of blood platelet functions.

Cirex Corp

123 North Sycamore St, Suite 120, Newtown, PA 18940.

Tel: 215 860 7704 Fax: 215 860 7704

Manufactures and distributes OPD enzyme substrates and custom reagents.

Clinarium Inc

4 Glenhardie Corporate Center, 1255 Drummers Lane, Suite 306, Wayne, PA 19087.

Tel: 215 995 9333 Fax: 215 995 9342

Offer services in validation support, systems integration and software consulting. Products include clinical trials administration and monitoring software, clinical trials data management software, drug safety software and CANDAs software.

Cocalico Biologicals Inc

449 Stevens Rd, PO Box 265, Reamstown, PA 17567.

Tel: 215 267 7548 Fax: 215 267 6813

Manufacture blood products including serums, plasma, red blood cells and monoclonal and polyclonal antibodies.

Computer Chemical Systems Inc

Route 41 & Newark Rd, PO Box 683, Avondale, PA 19311.

Tel: 215 268 2051 Telex: 910 240 4109

Fax: 215 268 0465

Supply equipment for gas chromatography. Manufacture supercritical fluid chromatographs and supercritical fluid extractors.

Connaught Laboratories Inc

Rte 611, PO Box 187, Swiftwater, PA 18370.

Tel: 717 839 7187/800 822 2463

Produces human vaccines and diagnostics as well as monkey blood, tissues and cell lines available from Connaught Laboratories Ltd, Canada.

Conrex Pharmaceutical Corp

18 Great Valley Parkway, Suite 120-A, Malvern, PA 19355.

Tel: 215 640 1599 Fax: 215 640 1649

Develop drug delivery systems including mucosal delivery of peptides and proteins.

Derma Sciences Inc

121 W Grace St, Old Forge, PA 18518.

Tel: 717 457 1232 Telex: 910 250 4931

Fax: 717 457 1793

Produce and market pharmaceuticals and skin medications by bulk fermentation procedures.

Drexel University

Department of Chemical Engineering

Philadelphia.

Tel: 215 895 2236

Developing process for conversion of corn stover to alcohol fuel using acid hydrolysis followed by fermentation using immobilized yeast.

Drummond Scientific Co

500 Parkway, Broomall, PA 19008.

Tel: 215 353 0200/800 523 7480

Telex: 831352 Fax: 215 353 6204

Manufactures automatic pipetting devices.

Du Pont Merck Pharmaceuticals

Du Pont Pharma

500 South Ridgeway Avenue, Glenolden, PA 19036.

Tel: 215 237 7806 Fax: 215 237 7975

Develops and markets pharmaceuticals. Carrying out research on cardiovascular, CNS, oncology, inflammation, HIV and radiopharmaceutical diagnostic merging agents. A joint venture of Du Pont and Merck.

Eagle Stainless Container

440 Horsham Road, Horsham, PA 19044.

Tel: 215 957 9333 Fax: 215 957 9330

Supplies stainless steel biological transfer bottles and other containers.

Ecogen Inc

2005 Cabot Boulevard West, Langhorne, PA 19047.

Tel: 215 757 1590 Telex: 846671 ecogen

Fax: 215 757 2956

Developing insecticides and microbial plant pesticides based on novel improved strains of *Bacillus thuringiensis* as well as pseudomonads for control of soil borne fungal pathogens and the fungus *Neozygites* to control mites. Using recombinant DNA technology, tissue and cell culture methods etc, to develop new agricultural products.

Electron Microscopy Sciences

PO Box 251, Fort Washington, PA 19034.
Tel: 215 646 1566/800 523 5874
Fax: 215 646 8931

Manufacturer and supplier of a complete line of chemicals, supplies, accessories and equipment for the field of microscopy as well as laboratory microwave ovens and vibrating tissue shearers.

Enzymatics Inc

500 Enterprise Road, Horsham, PA 19044.
Tel: 215 674 3288 Fax: 215 674 3273

Develops and manufactures rapid non-instrumental diagnostics and clinical tests for saliva alcohol, cholesterol and blood lipids.

The ERM Group

855 Springdale Drive, Exton, PA 19341.
Tel: 215 524 3500/800 544 3117
Fax: 215 524 7335

Environmental consultants. ERM Group associates include ERL, UK.

Exocell Inc

3508 Market St, Suite 420, Philadelphia, PA 19104.
Tel: 215 222 5515/800 234 EXOC
Fax: 215 222 5325

Develops and commercializes innovative products for management and treatment of diabetes mellitus and its microvascular/macrovacular complications. Diagnostic products include monoclonal antibody based immunoassays; therapeutic products in preclinical phases.

Fisher Scientific Co

Biotechnology Group

711 Forbes Ave, Pittsburgh, PA 15219.
Tel: 412 562 1729/8543 Telex: 138287
Fax: 412 562 5344

Supplies a wide range of instruments and reagents for a variety of disciplines including molecular biology, immunology, cell biology and bioseparations. Products lines include restriction, modification enzymes, biochemicals, antibodies and detection systems, HPLC and low pressure chromatography systems and a complete line of electrophoresis apparatus and power supplies.

Fortron Bio Science Inc

177 W Creek Rd, St Marys, PA 15857.
Tel: 814 781 6610 Fax: 814 834 7442

Manufacture purified human and animal proteins and enzymes. Provide custom immunochemical services such as protein isolation, antibody purification and labelling as well as immunoassay development. Supply bulk quantities of secondary antibodies as raw antiserum, gamma fractions or affinity purified.

Fox Chase Cancer Center

7701 Burholme Avenue, Philadelphia, PA 19111.
Tel: 215 728 2468 Fax: 215 728 2594

Research is conducted among three divisions. The division of basic science conducts research in oncogenes, anti-oncogenes, chemical carcinogens and gene expression, immunology, virology, membrane biology, X-ray crystallography and nuclear resonance (NMR). Studies in medical science involve biological response modifiers including interferons, interleukin-2 and tumour necrosis factor, monoclonal antibodies, drug resistance, radiation therapy and diagnostic imaging. Population science includes programmes to identify people with high cancer risks, to develop strategies to help them reduce their risk and detect cancer

early, and to study how environmental agents and genetic factors interact to predispose people to cancer.

Gannett Fleming Engineers

PO Box 1963, Harrisburg, PA 17101.
Designs landfill gas recovery facilities.

Gen Trak Inc

5100 Campus Drive, Plymouth Meeting, PA 19462.
Tel: 215 825 5115/800 221 7407

Supply antibodies including monoclonal antibodies, immunodiagnostic tests including an AIDS test and flow cytometry reagents.

Gist-brocades Food Ingredients Inc

2200 Renaissance Boulevard, King of Prussia, PA 19406.
Tel: 215 272 4040 Fax: 215 272 5695

Supply yeast, yeast extracts, enzymes and ingredients for the baking, savoury, dairy and beverage industries.

Harwood Academic Publishers

International Publishers Distributor, 820 Town Center Drive, Longhorne, PA 19047.
Tel: 215 750 2642 Fax: 215 750 6343

US orders: 1-800 545 8398.

Publishers in biotechnology and related fields. Publications include the journals 'DNA Sequence', 'International Journal of Biotechnology' and 'Transgenics'.

Hazleton Research Products Inc

PO Box 7200, Swampbridge Rd, Denver, PA 17517.
Tel: 215 267 4921/800 345 4114
Fax: 215 267 5344

USDA-registered Class A dealer of purpose-bred animals for biomedical research. Services include custom polyclonal antisera production and canine toxicology.

Heinz USA

PO Box 57, Pittsburgh, PA 15230.
Tel: 412 237 5757

Manufactures processed foods. Involved in enzyme engineering through its subsidiary Hubinger Co, US.

Honeywell

Industrial Automation Control Division

1100 Virginia Dr, Fort Washington, PA 19034.
Tel: 800 343 0228 Fax: 215 641 3586

Manufactures chart recorders, control devices, transmitters, sensors, PC and DCS systems.

Hotpack Corp

10940 Dutton Road, Philadelphia, PA 19154.
Tel: 215 824 1700/1000/800 523 3608
Telex: 6851197 Fax: 215 637 0519/632 1260

Supplies mechanical convection, drying and sterilizing ovens, carbon dioxide incubators, glassware washers, humidity chambers and other controlled environment rooms as well as a new line of biological safety cabinets and laminar flow benches.

Immuna Care Corp

111 Research Dr, Bethlehem, PA 18015.
Tel: 215 861 6979 Fax: 215 861 8247

Develops in vitro diagnostics for breast cancer and estrogen-related diseases, including osteoporosis

Immunicon Corp

1310 Masons Mill II, Huntingdon Valley, PA 19006.
Tel: 215 938 0100 Fax: 215 938 0437

Involved in the development of novel magnetic particle technology, separation systems and applications to markets such as diagnostics, cell and gene therapy, food and environmental testing and MRI.

Immunon/Shandon Corp

171 Industry Drive, Pittsburgh, PA 15275.
Tel: 800 245 6212 Telex: 866200
Fax: 412 788 1138

Produce immunohistochemicals for tissue staining of any human antigen.

Instech Laboratories Inc

5202 Militia Hill Rd, Plymouth Meeting, PA 19462.
Tel: 610 941 0132 Fax: 610 941 0134

Supply stirrers including mini stirrers to fit cuvettes as well as a dissolved oxygen monitor system that measures oxygen in either 600 microlitre chambers or can be converted to flow-through systems for in-line measurements. Also supply miniature low flow peristaltic pumps.

International Canine Genetics

271 Great Valley Pkwy., Malvern, PA 19355.
Tel: 215 640 1244 Fax: 215 640 5754

Produces ovulation diagnostics and pregnancy test services for dogs and cats.

ITT Fluid Technology Corp

33 Centerville Rd, Lancaster, PA 17603-2064.
Tel: 717 291 1901

Manufacturer of engineered valves. Products include a range of miniaturized diaphragm valves suitable for use in bioprocessing.

Jackson Immunoresearch Laboratories Inc

872 W Baltimore Pike, PO Box 9, West Grove, PA 19390.
Tel: 215 869 4024/800 367 5296
Fax: 215 869 0171

Supplies a wide range of affinity purified antibodies, highly purified immunoglobulins, streptavidin and avidin. All are available unconjugated or conjugated with enzymes, fluorophores, biotin and colloidal gold. Products are used for screening monoclonal antibodies, immunoassays, immunohistochemistry, western blotting, FACS analysis, in situ hybridization and electron microscopy.

Keystone Laboratories Inc

3700 Science Center, Philadelphia, PA 19104.
Tel: 800 788 4362 Fax: 800 786 4362

Offer custom peptide synthesis services. Products include amino acid derivatives, resins and reagents.

Lampire Biological Laboratories

PO Box 170, Pipersville, PA 18947.
Tel: 215 795 2838 Fax: 215 795 0237

Supplier of animal blood, serum, polyclonal and monoclonal antibodies in bulk, purified and conjugated. Offer services for producing custom polyclonal antibodies specifically for individual investigators, and diagnostic test kits.

Lehigh University

Center for Molecular Bioscience and Biotechnology
111 Research Drive, Iacocca Hall, Room D222,
Bethlehem, PA 18015.
Tel: 610 758 5426 Fax: 610 758 5851

Carries out interdisciplinary biotechnology research including the monitoring and control of plant, mammalian and microbial cell bioreactors, optimization and control of cell/protein surface interactions, separation and purification of biological molecules, design of targeted delivery systems and the application of biological markers for diagnosis and therapy.

Life Sciences International

1818 Market St, Philadelphia, PA 19103.
Tel: 215 299 8700 Fax: 215 299 2273

Performs engineering, architectural, construction, automation, validation and start-up services for the pharmaceutical and biotechnology industries. Expert in the design, construction and validation of facilities involving the application of biotechnology and pharmaceutical technology to large-scale fermentation and the manufacture of synthetic drugs, finished dosage pharmaceuticals, medical devices and related products. Experienced in cell culture, rDNA fermentation, monoclonal antibody engineering and purification design. Unit of Day & Zimmermann International Inc.

Liquid Carbonic Supercritical

966 Postal Rd, Allentown, PA 18103.
Tel: 215 266 9693 Fax: 215 266 1482

Provides supercritical fluid extraction technology and equipment design for industrial applications. The focus of technology is to improve the yield and quality of the desired components.

Lunaire Environmental Inc

4 Quality Street, PO Box 3246, Williamsport, PA 17701.
Tel: 717 326 1770

Manufactures automated incubators for cell culture, controlled environment rooms and dry-heat sterilizers.

M-Scan

M-Scan Inc

137 Brandywine Parkway, West Chester, PA 19830.
Tel: 610 696 8210/8240 Fax: 610 696 8370

Mass spectrometry consultants and analysts specializing in protein, glycoprotein and carbohydrate analysis using fast atom bombardment (FAB-MS) and electrospray (ES/MS) mass spectrometry. Instrumentation includes a high field magnet ZAB-2SE mass spectrometer with 15000 dalton mass range capability. A full range of conventional and high resolution techniques is available ie FAB, EI, CI and FD. Routine fast turn-around FAB-MS service for molecular weight and sequencing of peptides is available. Electrospray MS is capable of accurate molecular weight determinations on sub-nanomole amounts of larger molecules up to approximately 200kDa. On-line HPLC/MS carried out. MS techniques have been applied to determination of structure of recombinant proteins and glycoproteins with emphasis on post-translational modifications. Studies conducted to GLP/GMP requirements. See M-Scan Ltd (UK).

Matreya Inc

500 Tressler St, Pleasant Gap, PA 16823.
Tel: 814 359 5060 Fax: 814 359 5062

Produces isolated and purified lipids, particularly sphingolipids.

Merck Sharp & Dohme

West Point.
Tel: 215 661 6681

Produces and markets pharmaceuticals and fine chemicals. Products include a recombinant DNA vaccine, developed in association with Chiron, US against hepatitis B.

Mine Safety Appliance Co

Box 426, Pittsburgh, PA 15230.
Tel: 412 967 3256 Telex: 812453
Fax: 412 967 3451

Produce equipment and reference gas mixtures for calibration of gas detection instruments.

MSA

Box 426, Pittsburgh, PA 15230.
Tel: 800 MSA 2222

Manufacturer of personal protective equipment and environmental surveillance instruments.

Netsch Inc

119 Pickering Way, Exton, PA 19341-1393.
Tel: 610 363 8010 Fax: 610 363 0971

Manufacturers of grinding and dispersion equipment, progressing cavity pumps, filter presses, machinery for the ceramic industry.

Ohmicron Corp

375 Pheasant Run, Newton, PA 18940.
Tel: 215 860 5115 Fax: 215 860 5213

Produces immunoassay-based diagnostics for the detection and measurement of contaminants in food, soil and water. Developing a portable immunoassay-based detection system for use in the field.

Pennsylvania State University

College of Agricultural Science
University Park.
Tel: 814 865 5410 Fax: 814 865 6152

Research in animal biotechnology encompasses the development of new technologies that increase animal productive efficiency and productivity and improve the management and control of animal disease. The application of biotechnology to the plant sciences is directed towards the development and improvement of plants and plant related products, the protection of plants from disease, arthropod pests and both natural and artificial stresses, and the development of novel solutions to environmental problems which threaten plant production and the quality of life. Crop improvement is directed at several economically important species including maize, potato, cocoa, geraniums and mushrooms. Quality, nutrition and safety of foods, both fresh and processed are being investigated through biotechnological protocols.

Pennsylvania State University

Department of Civil Engineering
212 Sackett Building, University Park, PA 16802.
Tel: 814 863 0601

Studying production of biogas (methane) by anaerobic digestion of poultry manure and cattle manure.

Pennsylvania State University

Department of Molecular & Cell Biology
S-101 Frear Bldg, University Park, PA 16802.
Tel: 814 865 1992 Fax: 814 863 7024

Carrying out research on the molecular genetics of the photosynthetic apparatus in cyanobacteria, cyanobacterial physiology and light-harvesting antennae and reaction centres.

University of Pennsylvania

Department of Biology
34th & Spruce Street, Philadelphia, PA 19104.
Studying structure of genes coding for histones and their transcription.

University of Pennsylvania

School of Medicine Department of Microbiology
36th & Hamilton Walk, Philadelphia, PA 19174.
Studying uptake of DNA by cell cultures and genetic transformation in mammalian somatic cells. Investigating the nature of antibody diversity by studies of nucleotide sequences in mRNA.

University of Pennsylvania

School of Veterinary Medicine Department of Clinical Studies
New Boulton Centre Kennett Square, Philadelphia, PA 19348.

Undertaking studies on mammalian fertilization, in vitro fertilization, embryo culture and embryo transfer in rabbits and cows.

University of Pennsylvania

School of Allied Medical Professions Department of Microbiology
4001 Spruce Street, Philadelphia, PA 91974.
Using in vitro culture model with HeLa cells to evaluate pathogenic properties of Salmonella.

Pennwalt Corp

3 Parkway, Philadelphia, PA 19102.
Tel: 215 587 7000 Telex: 845234
Manufactures pharmaceutical and dental products.

Petrarch Systems Inc

Bartram Rd, Bristol, PA 19007.
Tel: 215 781 9255 Fax: TWX: 510 667 0563
Manufactures a wide range of silanes and silicones including products for treatment of glass surfaces to provide silicized hydrophobic surfaces.

Pharmakon Research International Inc

PO Box 609, Waverly, PA 18471-0609.
Tel: 717 586 2411 Fax: 717 586 3450
Offer research services in genetic toxicology, cytogenetics, teratology, reproductive biology, pharmacokinetics, pharmacology and acute, chronic and oncogenic toxicology and produce transgenic models of disease.

Philadelphia Biologics Center

Arsenal Business Center, 5301 Tacony St, Bldg 110,
Philadelphia, PA 19137.
Tel: 215 743 0740
Obtain biological products from human blood with anticancer properties.

Pittsburgh University

Department of Biological Sciences
4200 Fifth Avenue, Pittsburgh, PA 15268.

Studying structure and function of E coli genes, cloning into lambda-phage, and mapping and sequencing of amino acids and proteins. Also studying endonucleases.

University of Pittsburgh

Center for Biotechnology and Bioengineering
911 William Pitt Union, Pittsburgh, PA 15260.
Tel: 412 648 7956 Fax: 412 624 7145

Promotes commercialization of concepts developed in the university and health sciences research institutions with the main focus on biomedical technology, immunotechnology, biosensors, bioimaging and biocomputation.

Polybac Corp

3894 Courtney Place, Bethlehem, PA 18017-8999.
Tel: 215 867 7338 Fax: 215 861 0991

Produce microbial cultures and biotreatment systems for wastewater, soil and leachate treatment.

Polysciences Inc

400 Valley Road, Warrington, PA 18976-2590.
Tel: 215 343 6484/800 523 2575
Telex: 510 665 8542 Fax: 215 343 0214

Manufactures high-purity chemicals and specialty polymers for use in research and industry with applications to microscopy, immunology, electrophoresis and affinity chromatography. Offers services in custom antiserum production, dyes and stains as well as reagents for electron microscopy.

Presque Isle Cultures

PO Box 8191, Presque Isle, PA 16505.
Tel: 814 833 6262

Supplies bacterial and fungal cultures, as well as media for their growth.

Pressure Chemical Co

3419 Smallman Street, Pittsburgh, PA 15201.
Tel: 412 682 5882 Telex: 710 664 2151
Fax: 412 682 5864

Specializes in scaling up chemical processes from bench scale to pilot plants. Provides custom manufacturing of semi-commercial quantities of fine organic chemicals, pharmaceutical intermediates, organometallics, speciality polymers and other products. Also available are high pressure autoclaves from 1 litre to 250 gallons and glass-lined and stainless reactors to 1000 gallons.

Pressure Products Industries Inc

900 Louis Drive, Warminster, PA 18974.
Tel: 215 675 1600 Telex: 845329
Fax: 215 443 8341

Manufactures laboratory and production scale reaction vessels, non-contaminating, packless magnetic mixers and a complete line of diaphragm compressors for compression of pure, hazardous or expensive gases.

Prime Synthesis

2 New Rd, Suite 126, Aston, PA 19014.
Tel: 215 558 5920 Fax: 215 558 5923

Supplies DNA columns, reagents, amidites and other instrumentation for DNA synthesis.

Princo Instruments Inc

1020 Industrial Hwy, Southampton, PA 18966.
Tel: 215 355 1500 Fax: 215 355 7766

Manufactures level and specific gravity instruments, temperature controllers and thermometers.

ProMinent Fluid Controls Inc

1005 Parkway View Drive, PO Box 4549,
Pittsburgh, PA 15235.
Tel: 412 787 2484

Manufacture industrial fluid handling equipment including high pressure measuring pumps for handling water at 370 to 2900 psi.

R J Lee Group Inc

350 Hochberg Rd, Monroeville, PA 15146.
Tel: 412 325 1776 Fax: 412 733 1799

Provides electron microscopy and other analytical services to biotechnology companies.

Raytheon Engineers & Constructors Inc

Pharmaceutical and Biotechnology Division
30 S 17th St, PO Box 8223, Philadelphia, PA 19101.
Tel: 215 422 4700 Fax: 215 422 4871

Provide architectural, engineering, construction and validation services over a wide range of industrial applications, including facilities for pharmaceutical and biotech R&D, product development and bulk and finished product manufacturing. Also provide process development consulting, systems integration and environmental services.

REPAP Technologies Inc

2650 Eisenhower Ave, PO Box 766, Valley Forge, PA 19482.
Tel: 215 630 9630

Corporate Technical Center for Pulp and Paper (Industry).

Rhone-Poulenc Rorer Central Research

R-PR Biotechnology
680 Allendale Rd, King of Prussia, PA 19406.
Tel: 610 992 4455

Produce therapeutics.

Rockland Inc

PO Box 316, Englestown Road, Gilbertsville, PA 19525.
Tel: 215 369 1008 Fax: 215 367 7825

Supplies affinity purified antibodies, purified proteins, animal and human serum, plasma and whole blood.

Ruetgers-Nease Chemical Co

201 Struble Road, State College, PA 16801.
Tel: 814 238 2424 Fax: 814 238 1567

Carries out custom synthesis of bulk pharmaceuticals.

Sanofi Bio Industries Inc

8 Neshaminy Interplex, Suite 213, Trevese, PA 19053.
Tel: 215 638 7801 Fax: 215 638 8168

Manufacture enzyme modified dairy ingredients, textural agents, fruit juice concentrates, fruit juice sweeteners, fragrance compounds, cultures, enzymes, technical and pharmaceutical gelatins and dehydrated citrus peels. Subsidiary of Sanofi, France.

Satori Corp

4383 Hecktown Rd, Suite E, Bethlehem, PA 18017.
Tel: 215 759 9559 Fax: 215 759 9675

Provides computerized control/data logging systems for fermentation and cell culture systems, research and pilot scale.

Scientific Systems Inc

349 Science Park Road, State College, PA 16801.
Tel: 814 234 7311/800 441 HPLC

Manufacture systems for fast protein analysis incorporating design features by Fisher Scientific, US.

Scott Environmental Technology A Division of National Air Network Inc

Specialty Gas Division/Environmental Services Division

PO Box 369, 6205 Route 611, Plumsteadville, PA 18949.
Tel: 215 766 7230 Fax: 215 766 2051

Provides research, testing and measurement services relating to air pollution. Other services offered include permitting, engineering, consulting, dispersion modelling and a continuous emission monitoring system.

Sensor Based Systems Inc

161 N Main St, Dublin, PA 18917.
Tel: 215 249 1390 Fax: 215 249 1751

Markets cell density monitors in vessel, disposable sterile bag filling systems, disposable vessel liners, scientific glassware, bioreactor repair glass, new glass bioreactors, clean rooms and clean room equipment.

Serono Baker Diagnostics

100 Cascade Drive, Allentown, PA 18103.
Tel: 215 264 2800/800 345 3127
Fax: 215 266 0184

Market automated analyzers, blood cell counters and diagnostic kits (see Serono Laboratories, US).

Sharples Inc/Alfa Laval

955 Mearns Rd, Warminster, PA 18974.
Tel: 215 443 4000 Telex: 4761193
Fax: 215 443 4234

Supply centrifuges and accessories for cell harvesting and other applications. Member of the Alfa-Laval Group.

Sigel Technologies Inc

Sabine & Essex Ave, Narberth, PA 19072.
Tel: 215 668 3540

Provide a full range of services and systems for design and implementation of biotech facilities and processes.

Smithkline Beecham

200 North 16th St, PO Box 7929, Philadelphia, PA 19101.
Tel: 215 751 4000 Telex: 834487
Fax: 215 751 4992

SmithKline Instruments Inc: 800 West Maude Avenue, Sunnyvale, CA 94086.
Tel: 408 732 6000

Manufactures and distributes laboratory instruments, apparatus and biological products worldwide. Products include high-speed centrifuges, high performance liquid chromatography equipment and analytical instruments. Also supplies related chemicals, process instruments and controls, electronic components, biologically active synthetic peptides, chemicals for amino acids and for density gradient centrifugation as well as enzymes for

Part II Puerto Rico — PR UNITED STATES OF AMERICA

analytical and research purposes. Produces a wide variety of veterinary pharmaceuticals through its subsidiary Norden Laboratories, US. Using new genetic techniques including recombinant DNA technology. Has developed a monoclonal antibody to activated macrophages. Recently merged with Beecham, UK.

Smithkline Beecham Animal Health

formerly Norden Laboratories

812 Springdale Drive, Exton, PA 19341.

Produce veterinary products including vaccines and therapeutics. Subsidiary of Smithkline Beecham, US.

SmithKline Beecham Pharmaceuticals

709 Swedeland Rd, King of Prussia, PA 19406-0939.
Tel: 215 270 4948 Fax: 215 270 4979

Carry out research and development in areas of immunology, molecular genetics, cell biology and animal models for human and animal diseases including cardiovascular, immunologic, gastrointestinal, neoplastic and viral diseases. Currently interested in transgenic animals and the production of probes for identification of specific characteristics in animals.

Stoneboro Nurseries Inc

RR#2 Barbour Rd., Stoneboro, PA 16153.
Tel: 814 786 7991

Produces ornamental plants via tissue culture techniques.

Structure Probe Inc

SPI Supplies

569 E Gay St, PO Box 656, West Chester, PA 19381.
Tel: 610 436 5400/800 2424 SPI
Fax: 610 436 5755

Produce monoclonal antibodies, sample preparation instrumentation and consumable supplies for electron microscopy.

Supelco Inc

Supelco Park, Bellefonte, PA 16823-0048.
Tel: 814 359 3441/800 247 6628
Telex: 510 670 3600 Fax: 814 359 5459

Creates and markets leading-edge separation technologies (HPLC, GC, CE etc) for analytical to production-scale applications.

Suprex Corp

125 William Pitt Way, Pittsburgh, PA 15238.
Tel: 412 826 5200 Telex: 910 240 2567
Fax: 412 826 5215

Manufacture a super critical fluid extraction system.

Sylvan Spawn Inc

West Hills Industrial Park, Kittanning, PA 16201.
Tel: 412 352 1521 Fax: 412 297 3079

Supply mushroom spawn and mycorrhizal inoculants.

T S Scientific Inc

PO Box 198, Perkaskie, PA 18944.
Tel: 215 257 4756 Fax: 215 257 6046

Supply equipment and instrumentation for cryopreservation.

Tektagen Inc

358 Technology Drive, Malvern, PA 19355.
Tel: 215 640 4550/800 648 6682
Fax: 215 889 9028

Independent provider of regulatory driven testing services including: protein sequencing; virus detection; process validation; amino acid analysis; peptide mapping; DNA testing; retrovirus determination; cell bank characterization; radioisotope and enzyme-labelled immunoassays; stability testing services.

Temple University

406 University Services Building, Office of Technology Transfer, Philadelphia, PA 19122.
Tel: 215 787 8526 Fax: 215 787 7486

Developing new licensable inventions with emphasis on medical, pharmaceutical, biotechnology and materials research. Depending on the stage of development of each invention, company involvement may range from simple research/option agreements to exclusive licences. Most specific technologies recently developed include anti-coagulant peptides; thrombus-targeted complexes of plasminogen activators and fibrin fragments; artificial DNA base pair analogues; antiviral agents; antisense oligonucleotides; perfluorocarbon-based blood substitute; microcapsular, topical and intra-nasal drug delivery systems; genetic transformation gonorrhoea test; broad spectrum test for bacterial detection; test for fibrinogen bound to activated platelets etc.

Tocor Inc

200 Great Valley Pkwy., Malvern, PA 19355.
Tel: 215 296 4488 Fax: 215 644 7558

Develops therapeutic products for multiple sclerosis, rheumatoid arthritis and systemic lupus erythematosus. A shell company of Centocor.

TosoHaas

156 Keystone Drive, Montgomeryville, PA 18036.
Tel: 215 283 5000/800 456 4502
Fax: 215 283 9385

Supply prepacked columns and media for chromatography. Joint venture of Tosoh Corp, Japan and Rohm and Haas Co, US.

U.S. Bioscience Inc

920-B Harvest Dr., Blue Bell, PA 19422.
Tel: 215 540 0910 Fax: 215 540 0927

Develops therapeutics for ovarian cancer, brain cancer and AIDS-related pneumonia, and delivery systems for cancer therapeutics.

VWR Scientific Inc

1310 Goshen Pkwy, West Chester, PA 19380.
Tel: 610 431 1700 Telex: 34227
Fax: 610 429 9340

Distributor of laboratory equipment and supplies used in the life sciences, such as cell culture, molecular biology and immunology, including products for electrophoresis, centrifugation, chromatography etc.

WRc Inc

2655 Philmont Ave, Huntingdon Valley, PA 19006.
Tel: 215 938 8444 Fax: 215 938 1410

US subsidiary of WRc, UK offering environmental services to industry.

Wyeth-Ayerst Laboratories

PO Box 8299, Philadelphia, PA 19101.
Tel: 215 688 4400

Produces pharmaceuticals distributed worldwide. Affiliate of Pennsylvania State University, US operative programme in molecular biology. Subsidiary of American Home Products Corp, US. Products include ethical therapeutics, penicillin and bicillin, vaccines and whey or soy based infant formulas.

Zivic-Miller Laboratories Inc

122 Toll Gate Rd, Zelienople, PA 16063-0280.
Tel: 412 452 5200/800 422 LABS
Fax: 412 452 4506

Supplier of surgically prepared rodents and contract rodent breeder.

Zynaxis

371 Phoenixville Pike, Malvern, PA 19355.
Tel: 215 889 2200 Fax: 215 889 2222

Develops and produces therapeutic systems based on proprietary drug delivery technology for the treatment of restenosis, chronic rheumatoid inflammation and psoriasis. Also produces cellular diagnostics for clinical laboratories, including systems for monitoring the immune status of AIDS sufferers by measurement of CD4/CD8 cells.

Puerto Rico — PR

Baxter Healthcare Corp

PO Box 2, San Juan, PR 00936.
Tel: 809 792 5757 Telex: 0173

Supplies immunodiagnostics and immunoreagents.

Rhode Island — RI

Adams Scientific

771 Main Street, W Warwick, RI 02893.
Tel: 401 828 5250/800 829 2326
Fax: 401 828 5613

Manufactures bacterial identification systems, diagnostics, media for bacterial and cell culture, serums, growth factors and biological reagents. Using cell culture and hybridomas to develop new products. Subsidiary of Microbiological Sciences, US.

Analytical Biosystems Inc

55 Access Rd, Warwick, RI 02886.
Tel: 401 732 6520 Fax: 401 738 9160

Supply clinical in vitro testing, the fluorescent cytoprint assay, of various chemotherapeutics on individual tumour tissue samples. Joint venture between Analytical Biosystems and Brown University Research Foundation.

Brown University

Department of Physiological Chemistry
University Hall, Providence, RI 02912.

Investigating function of ribosomal RNA using restriction enzymes to provide deletions followed by cloning E coli and in vitro studying of their ability to function in reconstitution and translation assays.

Brown University

Division of Biology and Medicine
PO Box G-A 101, Providence, RI 02912.
Tel: 401 863 1614 Fax: 401 863 2660

Research and graduate training organization engaged in a number of projects based on biotechnology: development of implantable devices such as vascular grafts and nerve guidance channels; implantation of functionally active endocrine tissue protected against immune rejection by a permselective polymer envelope; development of in vitro drug sensitivity tests as predictors in cancer chemotherapy; implants for protracted release of growth factors and immunomodulators etc.

CytoTherapeutics Inc

2 Richmond Square, Providence, RI 02906.
Tel: 401 272 3310 Fax: 401 272 3485

Carrying out R&D on therapeutic approaches to treatment of neurodegenerative chronic and disabling conditions including Parkinson's disease, Alzheimer's disease, ALS (Lou Gehrig's disease) and chronic pain.

Hanna Instruments Inc

584 Park East Drive, Woonsocket, Rhode Island 02895-0849.
Tel: 1-800-HANNA-US/ 1-800-426-6287
Fax: 1-765-7575

Supply battery-operated, digital and portable pH metres, colorimeters and digital thermometers.

Microbiological Sciences Inc

771 Main St., Warwick, RI 02893.
Tel: 401 828 5250

Produces growth factors and MAb-based diagnostics for the detection of syphilis, herpes, chlamydia and gonorrhoea.

Rhode Island Partnership for Science and Technology

7 Jackson Walkway, Providence, RI 02903.
Tel: 401 277 2601 Fax: 401 277 2102

Promotes links between universities, institutions and industry in the region.

Separations Technology Inc

PO Box 352, 1080 Kingstown Rd, Wakefield, RI 02880.
Tel: 401 789 5660/800 553 4566
Fax: 401 792 3890

Manufacture advanced preparative HPLC systems and liquid chromatographs as well as chromatography columns for liquid systems.

WellGen Manufacturing Inc

P.O. Box 4000, W. Greenwich, RI 02817.
Tel: 401 392 1200

Produces interferon-alpha. A joint venture of Genetics Inst and Wellcome PLC.

South Carolina — SC

Coker's Pedigree Seed Co

PO Box 340, Hartsville, SC 29550.
Tel: 803 332 8151 Telex: 573343 coker's htsv

Select, produce and market seed of new varieties of maize, wheat, soya, sorghum, cotton and tobacco.

Fluor Daniel Inc

100 Fluor Daniel Drive, Greenville, SC 29607-2762.
Tel: 803 281 6921 Telex: 570493
3333 Michelson Dr, Irvine, CA 92730.
Tel: 714 975 2000 Fax: 714 975 5981

Full service contractor providing site selection, conceptual, preliminary and detail design, construction, validation and maintenance to the industry. Skills span recombinant DNA manufacturing, extraction technologies, organic synthesis (including stereospecific protein and nucleotides) as well as a range of pharmaceutical finishing facility types. Subsidiary of Fluor Corp, US.

John Brown E&C

252 South Pleasantburg Drive, Greenville, SC 29607.
Tel: 803 467 2500 Fax: 803 467 9899
(see John Brown, IL).

NCGS & Associates

1459 W Palmetto St, Florence, SC 29501.
Tel: 803 667 9009 Fax: 803 665 9112

Offers contract research services including management of clinical trials and statistical analyses.

SC Applied Technology Inc

2700 Middleburg Drive, Suite 209, Columbia; SC 29204.
Tel: 803 252 0769

Manufactures hand-held microcomputers pre-programmed for calculation of molar, normal and percent solutions with special function keys for milli- and micro- prefixes, with display indicating the proper unit of measurement.

University of South Carolina

Department of Biology
Columbia.
Tel: 803 777 4141 Fax: 803 777 4002

Carrying out studies on cloning of the genome from *Caulobacter crescentus*, development of genetic maps, studies of control mechanisms and production of gene library of the total genome. Also studying artificial insemination, in vitro fertilization and hybridization in prawns.

University of South Carolina

Institute for Biological Research and Technology
Columbia.
Tel: 803 777 2468

Provides biotechnology services to researchers including basic research and educational outreach with focus on MAbs, DNA analysis, micromanipulation and transgenics, oligonucleotide synthesis and protein/amino acid analysis.

Star Systems

Filtration Division
101 Kershaw St, PO Box 518, Timmonsville, SC 29161.
Tel: 803 346 3101 Fax: 803 346 3736

Manufacture stainless steel plate and frame filters, polypropylene filter presses, filter papers and pads for liquid filtration applications with high solids loading.

South Dakota — SD

Biogenetic Services Inc

2308 6th St, E Brookings, SD 57006.
Tel: 605 697 8500 Fax: 605 697 8507

Offer services in genetic fingerprinting.

Tennessee — TN

Biotherapeutics Inc

357 Riverside Drive, PO Box 1676, Franklin, TN 37065-1676.
Tel: 615 794 4797 Fax: 615 794 2418

Products include diagnostic reagents for cancer treatment and biological response modifiers. Carrying out custom research on cancer therapeutics.

Cancer Therapeutics Inc

357 Riverside Drive, PO Box 681055, Franklin, TN 37068.
Tel: 615 791 4073 Fax: 615 791 8311

Produce tumour derived activated cells (TDAC) for cancer therapy.

Cryomagnetics Inc

1006 Alvin Weinberg Drive, Oak Ridge, TN 37831.
Tel: 615 482 9551 Fax: 615 483 1253

Manufacture cryogenic and level monitors as well as NMR spectrometers.

Cytometry Associates

201 Summit View Drive, Brentwood, TN 37027.
Tel: 615 370 8393 Fax: 615 370 8074
Supply flow cytometry equipment.

JCL Clinical Research Corp

Route 46, Knoxville, TN 37914.
Tel: 615 546 0654 Telex: 557404
Fax: 615 971 1696

Supply monoclonal and polyclonal antibodies to hormones, serums, diagnostic test kits including tests for AIDS, Candida, erythropoietin and myoglobin as well as reagents for EIA.

The Nucleus Inc

761 Emory Valley Rd, Oak Ridge, TN 37831-2561.
Tel: 615 482 4041 Telex: 557482
Fax: 615 483 0406

Manufacture radioactive isotope counters.

Oak Ridge National Laboratory

PO Box X, Oak Ridge, TN 37830.
Tel: 615 574 6835

Investigating the splitting of water in vitro using chloroplasts and isolated enzymes in order to produce molecular hydrogen and oxygen. Also undertaking studies on hydrogen production by green algae.

Phyton Technologies Inc

7327 Oak Ridge Highway, Knoxville, TN 37931.
Tel: 615 691 3593 Telex: 534056
Fax: 615 691 7131

Develop and produce speciality plants, trees, ornamental and forest species by tissue culture and conventional propagation techniques.

University of Tennessee

Center for Environmental Biotechnology
10515 Research Drive, Suite 200, Knoxville, TN 37932-2567.
Tel: 615 675 9450 Fax: 615 675 9456

Carries out basic and applied research related to development of environmentally safe microorganisms and microbial processes with emphasis on treatment of hazardous wastes.

Part II Texas — TX UNITED STATES OF AMERICA

Therapeutic Antibodies

1500 21st Ave. S, Ste. 310, Nashville, TN 37212.
Tel: 615 327 1027 Fax: 615 320 1212

Produces antidotes, catalytic antibodies, cultured Human Stem Cells and antisera.

Viral Antigens Inc

5171 Wilfong Rd., Memphis, TN 38134.
Tel: 901 382 8716

Produces diagnostics based on recombinant antigens and peptides.

Texas — TX

A M Biotechniques Inc

PO Box 847, 101 Greenbrier St, Belton, TX 76513.
Tel: 817 939 7778 Fax: 817 939 1955

Manufactures veterinary biological vaccines grown in cell lines. Currently offers: CPV/LP - Homotypic Parvovirus vaccine; Canine Coronavirus - deactivated antigen; Corona-Parvo combination. Soon to add a totally deactivated Canine Distemper vaccine to the range.

Agristar Inc

100 Hawthorne, Conroe, TX 77301.
Tel: 409 760 3433

Design and produce gas permeable membranes for cell and tissue culture systems.

Alpha Environmental Inc

7748 Highway 290 West, Suite 110, Austin, TX 78736.
Tel: 512 288 7500

Supply microbial consortia for enhanced oil recovery, wastewater treatment, soil bioremediation and treatment of oil spills.

Alphagaz

PO Box 1026, LaPorte, TX 77572.
Tel: 713 474 8400 Fax: 713 474 8419

Produce gases for laboratory use including carrier gas, calibration mixtures and rare gases as well as pressure regulators and gas handling equipment.

Amarillo Cell Culture Inc

PO Box 149, Amarillo, TX 79105-0149.
Tel: 806 372 1010 Fax: 806 372 1419

Developing therapeutics. Products include interferon-alpha, therapeutics for AIDS, enteric and respiratory infections, encephalitis and hepatitis B, and oral interferon.

Ambion Inc

2130 Woodward St, Suite 200, Austin, TX 78744-1832.
Tel: 512 445 6979/800 888 8804
Fax: 512 445 7139

Develop and market molecular biology kits and novel reagents. Provide services in DNA sequencing, subcloning, DNA amplification by PCR and DNA libraries. Products include: ribonuclease protection assay; RNA and DNA labelling kit; in vitro transcription kits; in vitro translation kits; DNA miniprep kits; DNA/RNA modifying enzyme; molecular biology reagents; vectors; sequencing primers.

Antek Instruments Inc

300 Bammel Westfield Rd, Houston, TX 77090-3508.
Tel: 713 580 0339/800 365 2143
Telex: 910 881 1792 Fax: 713 580 0719

Manufacture nitrogen analyzers and sulphur analyzers suitable for biological samples (gas, liquid or solid) as well as gas chromatographs.

Antibody Systems Inc

405 Airport Freeway 3-H, Bedford, TX 76021.
Tel: 817 268 3396 Fax: 817 282 9859
P.O. Box 212022, Bedford, TX 76095

Producer of diagnostic and therapeutic biological materials for research and manufacturing. Diagnostic products include anti-IgM/IgG for various infectious and autoimmune diseases. Therapeutic products range from normal source plasma to hyperimmune globulins and IND programs. Wide variety of custom capabilities to deliver rare and unusual parasites, vectors and venoms for research applications.

Asoma Instruments Inc

12212-H Technology Blvd, Austin, TX 78727.
Tel: 512 258 6608 Telex: 767177

Manufacture X-ray fluorescence instruments for determination of elements of atomic number above 12 with the capability of determining the level of up to six elements simultaneously.

Austin Biological Laboratories Inc

6620A Manor Rd, Austin, TX 78723-4731.
Tel: 512 928 1304/800 666 3342
Telex: 469533 ausci Fax: 512 928 3607

Produce antigens, antisera, culture media and immunodiagnostics.

Applied Polytechnology

10415 Landsbury Dr., #208, Houston, TX 77099-3409.
Tel: 713 741 0166

Produce immunoassays and diagnostics for bacterial identification and urine screening.

Argus Pharmaceuticals

3400 Research Forest Drive, The Woodlands, TX 77381.
Tel: 713 367 1666 Fax: 713 367 1676

Produce therapeutics for macrophage diseases (AIDS, sarcomas, rheumatoid arthritis and cancers), modified TNF, liposomal therapeutics delivery systems, novel cytokines.

Bactec Corp

9601 Katy Freeway, Suite 350, Houston, TX 77024-1333.
Tel: 713 464 5444 Fax: 713 464 1421

Supply biological crop protection products based on Bacillus thuringiensis. Joint venture between Marubeni Corp and Plato Industries, US.

Baylor College of Medicine

Center for Biotechnology
4000 Research Forest Drive, The Woodlands, TX 77381.
Tel: 713 368 8400

Using modern biotechnology methods to study fundamental problems in cellular and molecular neurobiology, neural development and regeneration, vision research and cell and gene regulation.

Bethyl Laboratories Inc

PO Box 850, Montgomery, TX 77356.
Tel: 409 597 6111 Fax: 409 597 6105

Provide a custom antisera production service to supplied antigens. Producer of commercial antisera to human, rodent and domestic animal serum proteins. Carry out large scale drug studies and research projects at their animal facilities and supply radial immunodiffusion kits to the bovine, equine, canine and feline immunoglobulins.

Bio-Synthesis

612 E. Main St., Lewisville, TX 75057.
Tel: 214 420 8505 Fax: 214 420 0042

Produce custom chemicals, synthetic DNA and peptides, non-radioactive DNA probes, cytokines, thermal cycler and human and animal diagnostics.

Biofac Inc

PO Box 87, Mathis, TX 78368.
Tel: 512 547 3259/800 233 4914
Fax: 512 547 9660

Supply a range of beneficial insects for biological control.

BioGEE International Inc

Two Park Ten Place, Suite 100, 16300 Katy Freeway, Houston, TX 77094.
Tel: 713 578 3111/800 299 3111
Fax: 713 578 1114

Produce microbes for use in soil bioremediation and waste water treatment. Staff include environmental engineers, chemical engineers and microbiologists. Undertake design of site specific remediation and treatment systems.

Biotech Laboratories Inc

6023 S Loop East, Houston, TX 77033.
Tel: 713 643 0606/800 636 0600
Fax: 713 643 3143

Produce antibodies and reagents for enzyme immunoassay and radioimmunoassay and clinical test kits.

Biotics Research Corp

4850 Wright Rd, Suite 150, Stafford, TX 77477.
Tel: 713 240 8010/800 231 5777
Fax: 713 240 2304

PO Box 36888, Houston, TX 77236

Developing a range of nutritional supplements. Carrying out research on interferon, superoxide dismutase, antioxidants and microbiology.

Biotx

Biosciences Corp of Texas
201 Renner Rd, Richardson, TX 75080.
Tel: 214 480 0133 Telex: 910 250 1614
Fax: 214 907 9966

Carrying out research and development of cancer therapeutics. Products include a cancer nuclear antigen diagnostic kit, DNA probes, antibodies to oncogenes and growth factors.

Bohler Brothers of America Inc

Vogelbusch Division
1625 West Belt North, Houston, TX 77043.
Tel: 713 465 8376 Telex: 762275

Offers full engineering and project management services for the design and construction of fuel alcohol (ethanol) plant based on feedstocks, including sugar cane, sugar beet, molasses, corn, milo, sorghum, potatoes, rice, wheat, barley etc, as well as by-products such as cheese whey. Technology includes continuous fermentation,

energy-efficient designs and full by-product recovery with integration of distillation and stillage concentration for maximum steam economy. Plant may range from small-scale, regional or cooperative facilities in the capacity range of 20,000,000 to over 500,000,000 litres per year.

Carrington Laboratories

2001 Walnut Hill Lane, Irving, TX 75038.
Tel: 214 518 1300 Fax: 214 518 1020

Developing skin and wound care products including immune stimulators.

Curtin Matheson Scientific Inc

9999 Veterans Memorial Drive, Houston, TX 77038.
Tel: 713 820 9898 Fax: 713 878 3585

Manufactures incubators.

Cytoclonal Pharmaceuticals

Dallas, TX.

Developing technology for the fungal production of pharmaceutical compounds. Has been granted the licensing rights to produce the cancer therapeutic taxol using the fungus *Taxomyces andreanne*, which was initially discovered in 1990 by a plant pathologist at Montana State University.

Dallas Biomedical Inc

6300 Forest Park Rd, Suite 1020, Dallas, TX 75235.
Tel: 214 357 2040 Fax: 214 357 1618

Develop and manufacture biopharmaceuticals including research reagents for the study of cytochrome P450 enzymes by Oxygene, US. Carrying out clinical research on haematological cancers, solid tumours and autoimmune disease.

Danam Electronics Inc

4230 Shilling Way, Dallas, TX 75237.
Tel: 214 330 0406/800 433 0945
Telex: 272054 mwi Fax: 214 331 5350

Manufacture automated blood cell counters and accessories.

Department of Treasury

Bureau of Alcohol, Tobacco and Firearms

114 Commerce Street Room 701, Dallas, TX 75242.

Administration related to fermentation alcohol, distillation and use as a fuel.

Detox Industries

PO Box 1892, Sugar Land, TX 77487.
Tel: 713 240 0892

Develops technology for the microbial decomposition of chlorine-substituted chemicals.

Diagnostic Systems Laboratories Inc

100 East NASA Rd 1, Suite 303, PO Box 57946, Webster, TX 77598.
Tel: 713 332 9678/800 231 7970
Telex: 791944 diagsylab Fax: 713 338 1895

Developing monoclonal and polyclonal antibodies, enzyme- and radio-immunoassays and test kits for hormones, enzymes and receptors.

DMA Inc

845 Avenue G East, Arlington, TX 76011.
Tel: 817 640 0965/800 433 7224
Telex: 510 101 2780 dma Fax: 817 649 2461

Supply clinical reagents and other innovative products for the clinical laboratory.

DNA Sciences

8058 El Rio, Houston, TX 77054.
Tel: 713 748 6800

Produces MABs, diagnostics and immunoassays.

Fairleigh Dickinson Laboratories

1249 Ambler Ave, Abilene, TX 79601.
Tel: 915 677 1386/800 444 3401
Fax: 915 677 8447

Develop ELISAs for sexually transmitted diseases including herpes and chlamydia. Supplies equipment for EIA, transport kits and test kits.

Frito-Lay Inc

PO Box 35034, Frito-Lay Tower, Exchange Park, Dallas, TX 75235.
Tel: 214 351 7000

Carrying out research on genetic improvement of plants such as the potato, using both conventional and in vitro techniques including cell and tissue culture.

Gamma Biologicals Inc

3700 Magnum Rd, Houston, TX 77092.
Tel: 713 681 8481/800 231 5655
Telex: 790635 gamma Fax: 713 681 4605

Produce reagent-based diagnostic tests for human blood serums including monoclonal antibody-based tests as well as serums and antisera. Developing AIDS diagnostics.

Genosys Biotechnologies Inc

8701 A New Trails Dr., The Woodlands, TX 77381.
Tel: 713 363 3693 Fax: 713 363 2212

Manufacturer and international supplier of custom synthetic oligonucleotides and genes. Oligonucleotides are produced using patented segmented DNA sequencing technology. Offers a variety of modifications including biotin, fluorescein, alkaline phosphatase and a range of dyes. Also supplies bulk reagents.

Granada BioSciences Inc

10900 Richmond, Houston, TX 77042.
Tel: 713 977 7000 Fax: 713 783 2130

Produces cloned, sexed embryos and bovine FSH and LH. Carries out R&D related to transgenic animals, nuclear cloning and embryo transfer.

Granada Genetics Corp

100 Research Parkway, College Station, TX 778403.
Tel: 409 268 7000

Carrying out research on bull genetics, shrimp farming and food production. Subsidiary of Granada Corp, US.

Granada Mariculture Technologies Inc

PO Box 3128, Bryan, TX 77805.
Tel: 409 776 7000

Produce shrimps and offer advice and technologies for mariculture.

Greenhills Environmental Center

7575 Wheatland Road, Dallas, TX 75249.

Developing a two-phase system for production of methane by anaerobic digestion in which the first stage is optimized for production of acid and the second stage is optimized for production of methanogenic bacteria.

Health Science Center at San Antonio

University of Texas

7703 Floyd Curl Drive, San Antonio, TX 78284-7722.
Tel: 512 567 2000

Similar centres at Dallas, El Paso, Galveston and Houston. Carrying out research, mainly funded by the NIH but with commercial joint ventures also, in several areas including bone research, eg bone growth factors. Aim to promote commercialization of technology developed in academic institutions.

Helena Laboratories

1530 Lindbergh Drive, PO Box 752, Beaumont, TX 77704-0752.
Tel: 409 842 3714/800 231 5663
Telex: 429861/910 884 5171 Fax: 409 842 6241

Supplies materials and accessories for use in electrophoresis, spectrophotometry, densitometry, chemical analysis and blood testing as well as computer accessories which provide a concise presentation of densitometrically generated data from electrophoretic and chromatographic separations, antibodies, reagents and test kits.

Heyltx Corp

10665 Richmond Ave, Suite 170, Houston, TX 77042.
Tel: 713 784 6258/800 237 6793
Fax: 713 781 0960

Produce pharmaceuticals, chemicals and monoclonal antibodies. Developing diagnostics (see Heyl, Germany).

Houston Biotechnology Inc

3608 Research Forest Drive, The Woodlands, TX 77381.
Tel: 713 363 0999 Fax: 713 363 3715

Research and develop biopharmaceutical products to prevent or treat certain ophthalmic diseases and disorders including secondary cataract.

Houston University

Department of Biochemistry

BCHS-5934, 4800 Calhoun, Houston, TX 77004.
Tel: 713 743 8350 Fax: 713 743 8351

Investigating enzyme kinetics, diabetic drug design, genetic sequence analysis and molecular evolution as well as photosynthesis and secretory control. The Biology Department is investigating propagation and genetic improvement of tropical trees by regeneration of plantlets from embryos and callus cells.

Houston-Atlas Inc

9441 Baythorne Drive, Houston, TX 77241.
Tel: 713 462 6116 Telex: 750197
Fax: 713 462 1831

Manufacture microinjector syringe pumps and controllers for precision injection and sampling of liquids in volumes of from 50 ml down to micro-litre volumes capable of automatic, computer or manual control.

Inland Laboratories

12212K Technology Blvd., Austin, TX 78727.
Tel: 512 258 4171

Produces purified and modified proteins.

Part II Texas — TX UNITED STATES OF AMERICA

John Brown

Corporate Headquarters & Houston Engineering Office

7909 Parkwood Circle Drive, Houston, TX 77036.
Tel: 713 266 8008 Telex: 798776
Fax: 713 266 6316

See individual State entries for details of other offices.

Kernco Instruments Co Inc

420 Kenazo Ave, El Paso, TX 79927.
Tel: 915 852 3375/800 325 3875
Telex: 749487 Fax: 915 852 4084

Manufactures pH meters, temperature controllers and humidity monitors.

Lark Sequencing Technologies Inc

9545 Katy Freeway, Suite 200, Houston, TX 77024.
Tel: 713 464 7488/800 288 3720
Fax: 713 464 7492

Offer contract molecular biology services including DNA sequencing, library screening, restriction mapping and subcloning.

LifeCell Corp

3606 Research Forest Drive, The Woodlands, TX 77381.
Tel: 713 367 5368 Fax: 713 363 3360

Offers contract research in the applications of its patented cryobiology method for preservation, dry storage and revitalization of labile biological materials and tissues including human red blood cells, mammalian culture cells, heart valves, saphenous veins and platelets.

Midland Certified Reagent Co

3112 A W Cuthbert Ave, Midland, TX 79701.
Tel: 915 694 7950/800 247 8766
Fax: 915 694 2387

Supplies synthetic polynucleotides as well as lyophilized terminal transferase. Offers custom DNA synthesis, gene construction, DNA polymers, linkers, adaptors and primers.

Monoclonetics International Inc

18333 Egret Bay Blvd, Suite 270, Houston, TX 77058.
Tel: 713 335 1611 Fax: 713 333 3864

Produce human screening tests and diagnostics as well as epitope screens.

National Instruments

6504 Bridge Point Parkway, Austin, TX 78730-5039.
Tel: 512 794 0100/800 433 3488
Fax: 512 794 8411

Develop and market software for laboratory data acquisition and instrument control.

Novagene Inc

55 Briarhollow Lane, Houston, TX 77027.
Tel: 713 621 8440 Fax: 713 621 9257

Produce veterinary vaccines.

OCS Laboratories Inc

PO Box 1940, Rt 2 (FR455), Sanger, TX 76266.
Tel: 817 458 4422/800 227 0627
Telex: 910 997 8356 osclab

PO Box 2067, Denton, TX 76202

Manufacture synthetic DNA oligonucleotides, primers, linkers, adaptors and reagents for DNA synthesizers, as well as complete gene sequences. Offer services in custom oligonucleotide synthesis, computer analysis of DNA and proteins, protein and

peptide sequencing, gene synthesis, DNA sequencing and antibody production against synthetic peptides.

ONASCO Products

PO Box 720252, Houston, TX 77272.

Produces peptide-based blocking agents to prevent non-specific binding of proteins and nucleic acids during western blot, northern/southern blot and ELISA assays.

Oncore Analytics Inc

4900 Fannin St, Houston, TX 77004.
Tel: 713 523 6100 Fax: 713 523 8528

Offers laboratory diagnostic service for detection of human diseases including immune and cellular diseases. Produces a mitogen activated lymphocyte test and tests for CFS.

Perceptive Scientific Instruments Inc

2525 South Shore Blvd, Suite 100, League City, TX 77573.
Tel: 713 334 3027 Fax: 713 334 3116

Market and sell products for cytogenetics including lab management systems, chromosome analysis systems and workstations.

Pharmaco LSR Inc

Three Park Place, 4009 Banister Lane, Austin, TX 78704.

Tel: 512 447 2663 Fax: 512 440 2973

PO Box 2360, Mettlers Road, East Millstone, New Jersey 08875-2360.
Tel: 908 873 2550 Fax: 908 873 3992

World headquarters of Pharmaco International, a contract research company offering all phases of the drug development process from product development planning through post marketing surveillance. Offers services in technology testing including acute, subchronic and chronic studies in all species, pathology, metabolic, analytical residue and environmental fate chemistry as well as in quality assurance auditing.

Phoenix Electrode Co

6103 Glenmont St, Houston, TX 77081.

Tel: 713 772 6666/800 522 7920

Fax: 213 772 4671

Manufactures pH and ion selective electrodes as well as electrodes for dissolved oxygen and carbon dioxide.

Pro-Lab Inc

2111 Sam Bass Rd, Round Rock, TX 78681.

Tel: 512 255 9736 Fax: 512 255 9364

Supply culture media, equipment and diagnostics.

Radian Corp

PO Box 201088, Austin, TX 78720-1088.

Tel: 512 454 4797 Fax: 512 454 7129

Manufacture computer sample and analysis laboratory management systems.

Ramco Laboratories Inc

4507 Mt Vernon, Houston, TX 77006.

Tel: 713 526 9677/800 231 6238

Fax: 713 526 1528

Supply monoclonal antibodies, gels and in vitro diagnostic test kits.

Reliance Chemicals Corp

12405 Sowden Rd, PO Box 19513, Houston, TX 77224.

Tel: 713 462 3488

Produce custom microorganisms for industrial and agricultural applications such as bioremediation and waste treatment.

Ricetec Inc

PO Box 1305, Alvin, TX 77512.

Tel: 713 393 3502 Fax: 713 393 3532

Develops new rice hybrids using plant protoplast fusion techniques.

Shell Oil Co

1 Shell Place, Houston, TX 77001.

Tel: 713 241 6161

Develop petroleum-related biotechnology products including microbial products for agriculture and carry out research in areas of plant cell and tissue culture as well as plant and invertebrate pathology.

Southland Cryogenics Inc

2424 Lacy Lane, Carrollton, TX 75006.

Tel: 214 243 1311/800 872 2796

Fax: 214 243 1370

Manufactures cell culture equipment, centrifuges and freeze dryers for cryogenic preservation, storage and transportation.

Southwest Foundation

PO Box 28147, San Antonio, TX 78228.

Tel: 210 670 3206 Fax: 210 670 3306

NIH B Virus diagnostic resource.

Spectrum Medical Industries Inc

1100 Rankin Rd, Houston, TX 77073.

Tel: 713 443 2900 Fax: 713 443 3100

Manufactures and supplies equipment for the separation of biological materials. Products include stirred cells for membrane filtration, suited for systems of MW from 100 to 1,000,000, vacuum regulators and multiple dialysis equipment for up to 96 samples as well as other hardware for static dialysis, flow dialysis, equilibrium dialysis, micro- and macro-filtration. A complete line of chromatography products for low pressure applications is also available.

Summa Biologica Inc

8044 El Rio, Houston, TX 77054.

Tel: 713 747 3100 Fax: 713 747 3173

Develops and produces venom-derived enzymes, cell adhesion factors, nerve growth factors, ion channel antagonists, cell growth inhibitors, thrombolytics, coagulation factor activators.

Surgimedics/ATI

2828 N Crescent Ridge Drive, The Woodlands, TX 77381.

Tel: 713 363 4949 Fax: 713 292 1269

Developing electrophoresis buffers and high volume electrophoresis and isoelectric focusing systems. Products include isolators and ampholytes. Subsidiary of Surgimedics.

Synthecon Inc

PO Box 1849, Friendswood, TX 77546.

Tel: 800 853 0740

Produce rotary cell culture systems including a High Aspect Ratio Vessel (HARV) for in vitro culture and testing of primary tumour cells.

Tanox Biosystems Inc

10301 Stella Link, Houston, TX 77025-5497.
Tel: 713 664 2288 Fax: 713 664 8914

Developing immunotherapies for the treatment of allergies, asthma, AIDS, cancers and autoimmune diseases using recombinant DNA, monoclonal antibody, large scale cell culture and protein purification technologies.

Technalthics Inc

1007 N 57th, Waco, TX 76710.
Tel: 817 776 7994 Fax: 817 776 7995

Developing enzyme based products including a range of rapid, colorimetric test kits for agricultural and environmental applications. Also developing a pH controller for the food industry.

Texas Biological Laboratories

5901 Fitzhugh, Fort Worth, TX 76119.
Tel: 817 457 4474

Supplies diagnostic biologicals, as well as general laboratory chemicals, reagents and test solutions. Subsidiary of Anderson Laboratories Inc, US.

Texas Biotechnology Corp

7000 Fannin, Houston, TX 77030.
Tel: 713 796 8822 Fax: 713 796 8232

Produces biopharmaceutical products for prevention and treatment of cardiovascular diseases.

Texas Research and Technology Foundation

8207 Callaghan Rd, Suite 345, San Antonio, TX 78230.
Tel: 512 342 6063 Fax: 512 342 3336

Promote the development and management of R&D commercialization in areas of aerospace toxicology and neurosciences, food processing and pharmaceuticals (clinical trials, drug delivery systems, genetics and immunology).

Texas Tech University

Institute for Biotechnology

Lubbock.
Tel: 806 742 1579 Fax: 806 742 0775

Studying molecular, cellular and physiological mechanisms of crop plant resistance to thermal and water stress; structure-function relationships in proteins and enzymes; molecular genetic diversity and biodiversity.

Texas Tech University

Department of Biological Sciences

PO Box 4149, Lubbock, TX 79409.
Tel: 806 742 2740 Fax: 806 742 2963

Carrying out research on biological pesticides including aspects of viral interactions with cultivated insect cell lines from various species and the regulation of the production of polyhedrin. Also investigating the structure and regulation of genes coding for the promoter and other regulatory sequences as a means to engineering viral pesticides with a broader spectrum of host specificity.

University of Texas, Houston

Cancer Center, Department of Molecular Biology

1515 Holcombe Blvd, Houston, TX 77030.
Tel: 713 792 2690 Fax: 713 791 9478

Carrying out studies on the interaction of proteins and DNA and the cloning of bacterial restriction enzyme systems.

Texcell International Inc

10125 White Bonnet, San Antonio, TX 78240.
Tel: 210 694 4452 Fax: 210 694 4452

Offers contract research and culture testing services in oncology, toxicology, infectious diseases, AIDS and diagnostics.

3M Private Network Products

6801 Riverplace Blvd, PO Box 2963, Austin, TX 78769.
Tel: 512 984 3400/800 745 7459
Fax: 512 984 5943/800 6260329

Design and supply computer networks, multiplexers and software for PC communication systems.

Totalab Inc

PO Box 2449, Spring, TX 77383-2449.
Tel: 713 498 2239

Designs, manufactures and installs custom laboratories and animal facilities up to more than 50,000 square feet. Design capability includes genetic engineering, biomedical research, biochemistry, chemistry, environmental testing, production facilities and animal care units.

Tracor Instruments Austin

6500 Tracor Lane, Bldg 27-7, Austin, TX 78725-2100.
Tel: 512 929 2023 Telex: 910 874 1366
Fax: 512 929 2747

Manufactures gas chromatography systems and HPLC detectors for research, quality control and laboratory testing; specific applications for drug analysis and respiratory gases; turnkey systems with automated sampling and computerized data handling capability.

Transfluid Inc

5555 San Felipe, Suite 1200, Houston, TX 77056.
Tel: 713 840 9777 Fax: 713 888 2098

Supply analytical instrumentation and equipment for separation, purification and protein synthesis. Products also include chromatography cartridges, valves, vials, tubing and connectors.

Triplex Pharmaceutical Corp

9391 Grogan's Mill Rd, The Woodlands, TX 77380.
Tel: 713 363 8761 Fax: 713 363 1168

Biopharmaceutical company focused on the discovery, development and commercialization of novel human therapeutics based on nucleosides, oligonucleotides and triple helix technology for the treatment of viral infections and cancer.

The University of Texas Southwestern Medical Center at Dallas

5323 Harry Hines Blvd, Dallas, TX 75235-9060.
Tel: 214 648 3404 Fax: 214 648 8252

Specializes in research and treatment of Alzheimer's, arthritis, balance disorders, burns, cancer, cardiology, cholesterol, depression, diabetes, hypertension, neurologic disorders, neurosurgery, orthopaedics, osteoporosis, pain management, pediatric oncology, prostate disease, space medicine, and X-ray crystallography. Carries out molecular research in many fields. Promotes technology transfer.

UT MD Anderson Cancer Center

Division of Laboratory Medicine Molecular Diagnostic Laboratory

8014 El Rio Rd, Houston, TX 77054.
Tel: 713 794 4780 Fax: 713 794 4773

Utilizing DNA probes for diagnosis of cancers.

Valco Instruments Co Inc

PO Box 55603, Houston, TX 77255.
Tel: 713 688 9345/800 367 8424 (FOR VICI)
Fax: 713 688 8106

Manufactures high precision valves and fittings for instrumentation and process control in stainless steels, titanium and plastics.

Viral Testing Systems Corp

600 Travis St, Suite 4750, Houston, TX 77002-3005.
Tel: 713 228 1544 Fax: 713 228 4904
33 Flying Point Road, Southampton, NY 11968.
Tel: 516 287 3739 Fax: 516 287 1430

Supplies an indirect immunofluorescent assay (IFA) for screening and confirmatory testing of human serum or plasma for antibodies to HIV Type 1. Also supplies a panel of human MABs to HIV-1 for research use.

Viscotek Corp

1030 Russell Drive, Porter, TX 77365.
Tel: 713 359 5966 Fax: 713 359 4336

Manufactures SEC/GPC viscometer and light scattering detectors and solution/neat liquid viscometers.

Vogelbusch USA Inc

10810 Old Katy Road, 107, Houston, Texas 77043.
Tel: 713 461 7374 Fax: 713 461 7377

Provides engineering, construction and process development services to biotechnology companies, including plants for fermentation, cell culture and production of alcohol, yeast, vinegar, citric acid and glucose (see Vogelbusch GmbH, Germany).

Wadley Institute of Molecular Medicine

Wadley Biosciences

9000 Harry Hines Boulevard, Dallas, TX 75235.
Tel: 214 351 8111

Carries out cancer research. Investigating genetic systems of various eukaryotes and prokaryotes including aspects of molecular genetics and genetic engineering with emphasis on genes responsible for coding of interferons and other blood proteins. Develops therapeutics for cancer, AIDS and other viral diseases.

Zonagen Inc

2408 Timberloch Pl 4-B, The Woodlands, TX 77380.
Tel: 713 367 5892 Fax: 713 363 8796

Produces a genetically engineered vaccine for the sterilization of cats and dogs.

Utah — UT

AgriDyne Technologies Inc

417 Wakara Way, Salt Lake City, UT 84108.
Tel: 801 583 3500 Telex: 820832
Fax: 801 583 2945

Develop and market environmentally compatible crop protection products.

Applied Water Engineering Inc

2759 South 300 West, Suite G, Salt Lake City, UT 84115.
Tel: 801 486 7774 Fax: 801 484 9265

Manufacture equipment for reverse osmosis.

Cytozyme Labs

134 South 700 West, Salt Lake City, UT 84104.
Tel: 801 533 9208 Fax: 801 537 1312

Supply plant growth enhancers and animal feed additives.

Part II Vermont — VT UNITED STATES OF AMERICA

Evans & Sutherland

Computer Division

540 Arapeen Drive, PO Box 8700, Salt Lake City, UT 84108.

Tel: 801 582 5847 Fax: 801 582 9413

Supplies computer graphics systems designed for the creation, manipulation, modification and dynamic viewing of complex three dimensional molecular structures, as well as a variety of molecular science and molecular graphics software. Systems are used by researchers in crystallography, drug design, protein research, genetic engineering and polymer research.

Gull Laboratories Inc

1011 East 4800 South Street, Salt Lake City, UT 84117.

Tel: 801 263 3624/800 448 4855

Telex: 296480 gull ur Fax: 801 265 9268

Supplies immunofluorescence diagnostic kits for cytomegalovirus, Epstein-Barr virus, herpes simplex virus, Toxoplasma gondii, rubella virus, rubeola virus, respiratory syncytial virus, influenza virus and adenovirus. Supplies ELISA kits for Epstein-Barr virus, herpes simplex virus, rubella virus, rubeola virus, cytomegalovirus, Toxoplasma gondii and Chaga's disease.

HyClone Laboratories Inc

1725 South HyClone Rd, Logan, UT 84321.

Tel: 801 753 4584/800 HYCLONE [492 5663]

Fax: 801 753 4589/800 5339450

Supplies defined serums and media for cell and tissue culture including a gelatin microcarrier, immunochemicals and growth factors.

Hydrogen Energy Industry Association

PO Box 555 2000, East Billings Avenue, Provo, UT 84601.

Immuno-Diagnostic Products Inc

54 South 130 East, PO Box 193, North Salt Lake, UT 84054.

Tel: 801 298 7535 Fax: 801 292 6906

Supply clinical diagnostics for viral antibodies.

Lee Scientific

Division of Dionex

4426 S Century Drive, Salt Lake City, UT 84123.

Tel: 801 261 2300 Fax: 801 261 2389

Supply equipment for supercritical fluid chromatography and supercritical fluid extraction.

Multi-Technology Inc

6507 South 400 West, Salt Lake City, UT 84107.

Tel: 801 266 9334 Fax: 801 262 0433

Manufacture ultrafine pipette tips for sampling, injection, spotting etc, as well as sealable microcentrifuge tubes, culture tubes, electrophoretic DNA sequencing equipment and custom sequencing.

National Product Sciences Inc

420 Chipeta Way, Salt Lake City, UT 84108.

Tel: 801 583 4939 Fax: 801 583 4961

Develops therapeutics for disorders of the CNS, research chemicals and insecticides for crop pests.

Natural Product Sciences Inc

420 Chipeta Way, Salt Lake City, UT 84108.

Tel: 801 583 4939 Fax: 801 583 4961

Produce therapeutics for disorders of the CNS, research chemicals and insecticides for crop pests.

NPI

417 Wakara Way, University Research Park, Salt Lake City, UT 84108.

Tel: 801 582 0144

Carrying out research in plant breeding as well as developing new varieties of crops such as tomatoes by combining conventional breeding techniques with the use of gene probes to identify transmission of the required genes into young seedlings.

Porphyryn Products Inc

PO Box 31, Logan, UT 84323-0031.

Tel: 801 753 1901 Fax: 801 753 6731

Manufactures and supplies porphyrins and bile pigments for research use.

Summit Biotechnology Associates

PO Box 58081, Salt Lake City, UT 84158.

Tel: 801 581 1800 Fax: 801 581 1800

Offer consulting services to biotechnology and venture capital investment companies in R&D, technical evaluation, marketing and competitive analyses, management consulting, strategic planning and financing.

Utah State University

Biotechnology Center

Logan.

Tel: 801 797 2753 Fax: 801 797 2766

Facilities consist of three service laboratories and independent research and contracting laboratories. Service labs perform DNA and peptide synthesis and sequencing, antibody preparation, fermentation and general microbiology. Also offers services in bioremediation, antimicrobials and affinity chromatography as well as consultancy. Main areas of R&D include cloning and cultivation of mammalian cells, antiserums and MABs, preparation and screening of hybridomas and embryo transfer.

University of Utah, Salt Lake City

Department of Molecular Biology

1400 Second Street, Salt Lake City, UT 84112.

Investigating human linkage mapping using recombinant DNA probes.

University of Utah, Salt Lake City

Department of Biology

1400 Second Street, Salt Lake City, UT 84112.

Studying transformation of mouse cell cultures by herpes genes inserted into plasmid pBR322, regulation of gene control by SV40 control of protein synthesis and structure of mitochondrial DNA.

Vistatech Partnership Ltd

PO Box 21718, Salt Lake City, UT 84121.

Tel: 801 942 3207 Fax: 801 942 1436

Licensing technology for a biological technique for metal removal from industrial waste and process waters. Successor business to Advanced Mineral Technologies.

Wescor Inc

459 South Main Street, Logan, UT 84321.

Tel: 801 752 6011/800 453 2725

Telex: 4930393 Fax: 801 752 4127

Manufactures automated cell separator, vapour pressure and colloid osmometers, haematology, microbiology and papanicolaou slide stainers, sweat collection systems and a sweat conductivity analyzer as well as reagents and stains for

haematology, microbiology, cytology and a cytocentrifuge.

Vermont — VT

Bio-Tek Instruments Inc

Highland Park, PO Box 998, Winooski, VT 05404-0998.

Tel: 802 655 4040/800 451 5172

Telex: 940136 bio tek shvt Fax: 802 655 7941

Develops and manufactures ELISA and microplate readers accommodating all colorimetric assays and featuring many computerised functions.

Microcheck Inc

Microbial Analysis Lab

48 South Main St, PO Box 456, Northfield, VT 05663.

Tel: 802 485 6600 Fax: 802 485 6100

Specialists in identification of gram+/gram- aerobes, anaerobes, yeasts and moulds. Offer comparative analysis and tracking organisms with 48hr turnaround. Provide independent microbiological testing for research and production.

Virginia — VA

A H Robins Co

1407 Cummings Drive, PO Box 26609, Richmond, VA 23261.

Tel: 804 257 2000 Telex: 828317

Fax: 804 257 2120

Major international company involved in manufacture and marketing of health care products, cosmetics, perfumes and fragrances, as well as pet care products and animal vaccines through its subsidiary Agri-Bio Corp, US.

Albemarle Farms

Rt 6, Box 69, Charlottesville, VA 22901.

Tel: 804 293 3978

Using rDNA technology to produce disease-resistant animals.

Amano International Enzyme

PO Box 1000, Troy, VA 22974.

Tel: 804 589 8278/800 446 7652

Telex: 822438 Fax: 804 589 8270

Supply a wide range of diagnostic and food-grade enzymes, analytical kits based on enzymic assay for free fatty acids and monoclonal antibodies. Subsidiary of Amano Pharmaceutical Co, Japan.

American Filtrona Co

8401 Jefferson Davis Hwy, Richmond, VA 23237.

Manufactures prefilter media for removal of coarse particles to improve membrane efficiency as well as other filtration products.

American Institute of Biological Sciences

1401 Wilson Boulevard, Arlington, VA 22209.

American Society for Horticultural Science

113 South West St, Suite 400, Alexandria, VA 22314-2824.

Tel: 703 836 4606 Fax: 703 836 2024

Promotes the science of horticulture through meetings, dissemination of information and publication of research results in the Journal of American Society for Horticultural Science, HortScience, HortTechnology and other publications.

Artek Systems Corp

14340 Sullyfield Circle, Chantilly, VA 22021.
 Tel: 703 631 7800/800 336 4543
 Telex: 221219 Fax: 703 631 7816

Manufacture cell disintegrators and temperature control systems. Subsidiary of Dynatech Corp, US.

Astre Corporate Group Ltd

809 Princess St, Alexandria, VA 22314.
 Tel: 703 739 0397/800 83 ASTRE
 Fax: 703 548 5737

PO Box 25766, Alexandria, VA 22313.

Using microbial technology to develop biopesticides and systems for lipase production and ammonia degradation as well as for bioextraction of gold and degradation of wastes. Offer analytical and process development services.

Bicarbolite Corp

formerly Industrial Microgenics Ltd

809 Princess St, Alexandria, VA 22314-2223.
 Tel: 703 739 0427

Produce lipase and amylase and microbial cultures for treating waste organics including ammonia and chlorinated organics, as well as *Bacillus thuringiensis* strains.

Biological Monitoring Inc

PO Box 184, Blacksburg, VA 24063.
 Tel: 703 953 2821 Fax: 703 951 1481

Carries out environmental monitoring of water quality using computer monitoring equipment and fish as indicators. Designs and manufactures patented water quality monitoring systems, completely automated, using fish as indicators.

Biotage Inc

1500 Avon St Extended, Charlottesville, VA 22902.
 Tel: 804 979 2319 Fax: 804 979 4743

Manufacture radially compressed columns, alumina-based LC media, manually or fully automated preparative-scale and process-scale LC systems for peptide, protein and pharmaceutical product purification and LC software for optimizing protein purification.

BioTherm Corp

9685A Main street, Fairfax, VA 22031.
 Tel: 703 425 1677 Fax: 703 425 1679

Manufacture a user-friendly, high capacity thermal cycler.

Brooks Forest Products Center

Biobased Materials Technology Development Pilot Plant

Virginia Tech, 1650 Ramble Road, Blacksburg, VA 24061-0503.
 Tel: 703 231 8838

Cel-Sci Corp

66 Canal Center Plaza, Suite 510, Alexandria, VA 22314.
 Tel: 703 549 5293 Telex: 440527
 Fax: 703 549 6269

Focusing on the development of its proprietary products for the treatment of diseases which affect the immune system. Main product, BC-IL, has shown in clinical trials to be non-toxic and to elicit a strong immune response against the tumours of terminal head and neck cancer patients. The product is so well tolerated that it can be administered to terminal patients on an outpatient basis.

Cell Enterprises Inc

2262 Bluestone Hills Drive, Harrisonburg, VA 22801.
 Tel: 703 433 3035 Fax: 703 434 0597

Manufactures and supplies serum-free and protein-free tissue culture media as well as supplements for the growth of cells under defined conditions. Has collaborated with Gibco/BRL for production of AIM V used in LAK therapy.

Columbia Diagnostics Inc

8001 Research Way, Springfield, VA 22153.
 Tel: 703 569 7511/800 336 3081
 Fax: 703 569 2353

Supply a wide range of diagnostics, equipment and instruments, stains, reagents, standards and controls for clinical chemistry, cell culture, haematology, chromatography, immunology and spectrometry.

Commonwealth Biotechnologies Inc

1112 E Clay St, Box 127, Richmond, VA 23298.
 Tel: 804 371 5390 Fax: 804 786 3651

Offer nucleic acid sequencing and synthesis services. Specialize in RNA or modified DNA synthesis.

Cruachem Inc

45150 Business Court, Suite 550, Sterling, VA 20166.

Tel: 703 689 3390/800 EASY DNA
 Telex: 887036 Fax: 703 689 3392

Specializes in the development, manufacture and marketing of instruments and reagents for DNA/RNA synthesis. Subsidiary of Cruachem Ltd.

Department of Commerce

National Technical Information Service

5285 Port Royal Road, Springfield, VA 22161.
 Tel: 703 487 4650

Design Sciences Corp

8300 Boone Blvd, Vienna, VA 22182.
 Tel: 703 848 9247 Fax: 703 848 9247

Involved in design and programming of advanced software systems for analysis of research data.

Dynatech Laboratories Inc

14340 Sullyfield Circle, Chantilly, VA 22021-1617.
 Tel: 703 631 7800/800 336 4543
 Fax: 703 631 7816

Manufactures microtitre automation products and accessories for clinical and research microplate processing as well as microplate coating production.

Eurotherm Controls Inc

11485 Sunset Hills Rd, Reston, VA 22090.
 Tel: 703 471 4870 Fax: 703 787 3436

Supply process control systems for laboratory scale, pilot scale and full scale production plant.

Glen Research Corp

44901 Falcon Place, Suite 113, Sterling, VA 20166.
 Tel: 703 437 6191/800 327 GLEN
 Fax: 703 435 9774

Supply DNA synthesis reagents, oligonucleotide purification cartridges, and DNA modification reagents.

Hazleton Biotechnologies Co

9200 Leesburg Turnpike, Vienna, VA 22182.
 Tel: 703 893 5400/800 742 8378
 Telex: 899436 hazlabs
 Fax: 703 847 6958/759 6947

Produces laboratory reagents and equipment, media, monoclonal and polyclonal antibodies, complement fixation test reagents, radioisotopes, rapid diagnostic tests for interferon and developing diagnostics and cancer gene products. Subsidiary of Hazleton Laboratories, US.

Hazleton Washington Inc

9200 Leesburg Pike, Vienna, VA 22182 - 1699.
 Tel: 703 759 7880 Fax: 703 759 6947

Carry out R & D in toxicology and safety assessment, and offer a range of services related to cell proliferation, neurotoxicology, reproductive/developmental toxicology, study management, data management, chemistry, continuous infusion, toxicokinetics and immune assessment.

Humagen Fertility Diagnostics Inc

2345 Hunter's Way #2, Charlottesville, VA 22901.
 Tel: 804 979 4000 Fax: 804 295 5912

Produces and supplies medical diagnostics and clinical tests, including sperm fertility diagnostics.

Hunter Associates Laboratory Inc

11491 Sunset Hills Rd, Reston, VA 22090.
 Tel: 703 471 6870 Telex: 292821
 Fax: 703 471 4237

Manufactures a computerized colour analysis system which simulates visual observations.

Imaging Products International Inc

4425 Brookfield Corporate Drive, Suite 200, Chantilly, VA 22021.
 Tel: 703 803 0211 Fax: 703 803 0216

Manufactures image analysis instruments for cell, tumour, fibre and paper analysis and colony counters.

Jouan Inc

PO Box 2716, Winchester, VA 22601.
 Tel: 703 869 8623/800 662 7477
 Fax: 703 869 8626

Supplies carbon dioxide incubators, centrifuges and centrifugal vacuum concentrators for use in clinical, biochemistry and research applications.

Lim Laboratories Inc

409 E. Main St., Richmond, VA 23219.
 Tel: 804 780 3855 Fax: 804 780 9027

Produces microencapsulated biopesticides and serum substitutes. Developing microbial insecticides with improved performance, including Bts and baculoviruses, and botanical insecticides. Also developing microencapsulation delivery systems for biopharmaceutical applications.

Mediatech Inc

13884 Park Center Rd, Herndon, VA 22071.
 Tel: 703 471 5955/800 CELLGRO
 Fax: 703 471 0363

Manufactures liquid and powdered cell culture media and related products.

Mitre Corp

7525 Colshire Drive, McLean, VA 22102.
Tel: 703 883 6000 Telex: 899118

Research and development company concerned with energy policy analysis, programme development, systems engineering etc. Has carried out a number of assessments of terrestrial biomass energy systems, including bioconversions and alcohol fuel production.

Molecules for Health Inc

3313 Gloucester Rd, Richmond, VA 23227.
Tel: 804 644 8592 Fax: 804 788 0407

Developing anticancer and antiviral drugs, chemotherapeutic agents for modulation of Ischemia reperfusion injury, psoriasis and sickle cell anaemia.

Murtagh and Associates

160 Bay Court, Winchester, VA 22602.
Tel: 703 667 7757 Fax: 703 667 8091

Consultants offering a complete service in alcohol production, process plant improvement and improving alcohol product quality.

National Alcohol Producers' Association

1760 Reston Avenue, Suite 102, Reston, VA 22090.

Nugen Inc

Po Box 595, Salem, VA 24153.
Tel: 703 389 2266 Fax: 703 387 9705

Selects and uses microorganisms to produce aromatics, mineral oils, glycols, cellulase, alkaline protease and other enzymes. Also offers bioremediation and contract microbial production services.

Old Dominion University

Center for Biotechnology

Norfolk.
Tel: 804 440 3617 Fax: 804 683 5155

Foster and promote collaborative research between university faculty and industry in areas of clinically usable tissues including cultured human epithelium, cryopreservation of human heart valves and veins and cancer therapeutics.

Pharmaco Analytical Laboratory

2240 Dabney Rd, Richmond, VA 23230.
Tel: 804 359 1900

Specializes in the development and implementation of HPLC, GC and GC/MS methods for pharmacokinetic, bioavailability and bioequivalency studies. One of a network of Pharmaco companies.

Skatron Instruments Inc

108 Terminal Drive, Sterling, VA 20166.
Tel: 703 478 5190/800 336 0191

Telex: 64392 ska inc Fax: 703 478 5197
Supply cell harvesting equipment and automated sample preparation instrumentation, fraction collectors, vials for liquid scintillation counting and vacuum pumps.

Society for Industrial Microbiology

1401 Wilson Boulevard, Arlington, VA 22209.

Teledyne Hastings-Raydist

PO Box 1436, Hampton, VA 23661.
Tel: 804 723 6531 Telex: TWX: 710 882 0085
Fax: 804 723 3925

Supply a range of mass flow instruments including flowmeters and controllers. Also supply a complete range of thermocouple vacuum gauges and controllers.

The Tintometer Co

309A McLaws Circle, Williamsburg, VA 23185.
Tel: 804 220 2900 Telex: 710 882 2260
Fax: 804 229 0472

Produce colour analysis equipment, colorimeters, photometers, spectrophotometers, electrodes and related accessories.

Virginia CIT Institute of Biotechnology

PO Box 980126, MCV, Richmond, VA 23298-0126.
Tel: 804 828 8565 Fax: 804 828 8566

One of three university based institutes at Virginia's Centre for Innovative Technology (CIT), which identifies and promotes the development of applied research and technology transfer between the faculty and industry for commercialisation of biotechnology products and processes. CIT provides partial support for industry-sponsored research projects in Virginia universities which are of likely economic benefit to Virginia. Main areas of activity are agriculture, detoxification, diagnostics, microbial engineering, food biotechnology, bioprocessing scale-up, bioproduct development and therapeutic design.

Virginia's Centre for Innovative Technology

Medical College of Virginia

1200 East Broad Street, Richmond, VA 23298.

Undertaking studies on the cloning and translation of SV40 antigen genes.

Virginia Commonwealth University

Department of Microbiology

901 West Franklin Street, Richmond, VA 23298.

Studying gene organization and structure in E coli and investigating total tRNA. Also investigating the role of Streptococcus mutants in dental caries and identification of mutants in and plasmids for sucrose activity. Isolating and reconstituting the Azolla-Anabaena association.

Virginia Polytechnic Institute and State University

Department of Chemical Engineering & Chemistry

Blacksburg.
Tel: 703 961 7673

Developing microbial and enzyme processes for the large-scale conversion of lignin into commercially valuable materials.

University of Virginia

Department of Biology

Garrett Hall, Charlottesville, VA 22901.

Investigating transfection and genetic transformation in Rhizobium and use of plasmids for cloning rhizobial genes. Also investigating mechanism of regulation of genes and studying ultrastructure of genes of Xenopus and Drosophila, organization and regulation of genes coding for muscle proteins in Drosophila, and control of muscle protein synthesis.

University of Virginia

School of Medicine Department of Biochemistry

PO Box 246, Charlottesville, VA 22901.

Studying mechanisms of DNA replication.

University of Virginia

Center for Bioprocess and Product Development

Department of Chemical Engineering,
Charlottesville, VA 22901.
Tel: 804 924 7778

Undertake bioprocessing research in collaboration with industry with main focus on bioseparations, immobilized enzymes and cells, and cell culture.

Wako BioProducts

Wako Chemicals USA Inc

1600 Bellwood Road, Richmond, VA 23237.
Tel: 804 271 7677/800 992 WAKO
Telex: 293208 wako Fax: 804 271 7791

Distributes fine chemicals for industrial and laboratory use as well as clinical reagents and cell culture products, including standards, antibiotics, chromatography reagents, crosslinking reagents, enzymes, mycotoxin standards, antibodies and antisera, lectins, prostaglandins, biologically active peptides, chiral compounds, toxins and venoms and products for nucleic acid and peptide synthesis.

Washington Laboratories Inc

6634 Electronic Drive, Springfield, VA 22151.
Tel: 703 642 5671 Fax: 703 642 5691

Offer research and testing services including monoclonal and polyclonal antibody production, antibody characterization and purification, hybridoma development, cell banking and culture services, cell line characterization, human and animal virus, retrovirus, sterility, mycoplasma and bulk and lot testing, process validation and viral reagents.

Washington — WA**AB Technology Inc**

NE 1335 Terre View Drive, Pullman, Washington 99163.
Tel: 509 335 4047 Fax: 509 335 1064

Supply cell culture media for embryology, microscopes, thermal cyclers and equipment for micromanipulation, controlled-rate freezing, cryo-biology, molecular biology, ultrasound imaging, embryo transfer and Y-chromosome detection.

Bainbridge Sciences Inc

12277 N.E., Redmond, WA 98052.
Tel: 206 821 1010 Fax: 206 820 7874

Developing a rapid dipstick test for bladder cancer and other in vitro diagnostics for cancers and infectious human diseases.

Baxter Diagnostics Inc

Bartels
PO Box 3093, Bellevue, WA 98009.
Tel: 206 392 2992

Produce tissue culture media and diagnostic tests for Herpes simplex virus, chlamydia, GC, respiratory viruses and nucleic acid amplification systems.

Bio Techniques Laboratories Inc

, 8340 154th Avenue NE, Redmond, WA 98052-3864.
Tel: 206 883 9518 / 800 548 3222

Produce microbial feed additives for feedlot cattle.

Biocontrol Systems

19805 North Creek Parkway, Bothell, WA 98011.
Tel: 206 487 2055 Fax: 206 487 1476

Develops, manufactures and distributes rapid tests for the food and water industries. Key products include tests for Salmonella, Listeria, E Coli and total coliforms.

Blomed Research Labs Inc

1720 130th Ave NE, Bellevue, WA 98005.
Tel: 206 882 0448 Telex: 283803 biom ur

Develop and supply veterinary products including vaccines against microbial infections and other treatments for fish.

Biotope Inc

12277 134th Court NE, Suite 100, Redmond, WA 98042.
Tel: 206 820 9100/800 553 1123
Tel: 910 380 5905 Fax: 206 823 4446

Produces polyclonal antibodies, analyzers, clinical diagnostics and research assay kits including enzyme- and radio- immunoassays.

Cell Systems Corp

12815 NE 124th St, Kirkland, WA 98034.
Tel: 206 823 1010 Fax: 206 820 6762

Manufacture mammalian cell culture systems and reagents.

CellPro Inc

Suite 100, 22322-20th Avenue Southeast, Bothell, WA 98021.
Tel: 206 485 7644 Fax: 206 485 4787

Develop, manufacture and market proprietary continuous flow, cell selection systems for laboratory and clinical applications. Is carrying out Phase III clinical trials of an autologous bone marrow transplantation (ABMT) system for treatment of advanced breast cancer as well as trials of similar systems for treatment of other cancers. Is also carrying out R&D on gene therapy and the use of stem cells and lymphocytes for a range of research and clinical applications, including the prevention of organ transplant rejection.

Ecova Corp

18640 NE 67th Court, Redmond, WA 98052.
Tel: 206 883 1900 Fax: 206 867 2210

Offer waste treatment services including bioreactors and fungal biofiltration systems for bioremediation.

Elanex Pharmaceuticals Inc

22121 17th Ave SE, Suite 115, Bothell, WA 98021.
Tel: 206 487 3526 Fax: 206 486 4630

Developing erythropoietin and blood related products.

Fred Hutchinson Cancer Research Center

1124 Columbia Street, Seattle, WA 98104.
Tel: 206 667 5000 Fax: 206 667 5268

Carrying out research on control of gene expression; DNA replication, recombination and chromosomal mechanics; viral and cellular oncogenes and oncogenesis; regulation of cell surface interactions, receptors and signal transduction; automated synthesis and sequencing of DNA and proteins; human somatic gene therapy; molecular biology of human pathogenic viruses; role of oncogenes in human neoplasia; and genetics of human disease.

Genelex Corp

2203 Airport Way South #350, Seattle, WA 98134.
Tel: 206 382 9591

Produces DNA probe diagnostics for use in forensics and determination of parentage.

Genetic Systems Corp

3005 First Avenue, Seattle, WA 98121.
Tel: 206 728 4900/800 472 8378
Telex: 532050

Produces immunological products, especially monoclonal antibodies, for use in research and in diagnosis of human disease, cancer and cell typing for transfusions and tissue transplants. Carrying out research on therapeutic use of monoclonal antibodies. Has joint ventures with Syva Co, US for development of diagnostics for herpes virus, with Cutter Laboratories, US and with the Pacific Northwest Research Foundation, US to develop monoclonal antibodies to human disease antigens. Developing AIDS test based on Pasteur Institute, France virus, retroviral vectors, tissue targeted delivery systems and diagnostics for Legionnaires disease. Subsidiary of Bristol-Myers, US.

Hollister Stier

P.O. Box 3145, Spokane, WA 99220.
Tel: 509 489 5656

Develops allergenic extracts for diagnosis and treatment and a proprietary histamine release test for research use. A division of Miles Pharmaceuticals.

ICOS

22021 20th Ave. S.E., Bothell, WA 98021.
Tel: 206 485 1900 Fax: 206 485 1911

Produces therapeutics for rheumatoid arthritis, multiple sclerosis, asthma and inflammatory diseases.

Immunex Corp

University Building, Suite 600, 51 University St, Seattle, WA 98101.
Tel: 206 587 0430 Telex: 756822
Fax: 206 587 0606

Research and development company working on immunoregulation by lymphokines. Products include interleukin-1 to -4 and -7, interleukin-1 receptor and granulocyte macrophage colony stimulating factor.

Immunodiagnosics Inc

562 First Ave. S., Ste. 700, Seattle, WA 98104.
Tel: 206 443 8089 Fax: 206 628 3228

Produces diagnostics for AIDS and gonorrhea.

IMRE Corp

130 Fifth Avenue North, Seattle, WA 98109-4933.
Tel: 206 448 1000 Telex: 296357
Fax: 206 448 1007

Manufactures protein A and immuno blood purifier systems.

Indena USA Inc

1601 Fifth Ave, Suite 1200, Seattle, WA 98101.
Tel: 206 340 6140 Fax: 206 340 8845

Produces vegetable-based raw materials for the pharmaceutical, cosmetic and flavour industries. Offers custom production services.

Kent Laboratories Inc

23404 NE 8th St, Redmond, WA 98053.
Tel: 206 868 6200 Fax: 206 868 6335

Manufacture antisera to human proteins, conjugated antisera and radial immunodiffusion plates. Offer services in custom immunization, immunoassay development, antibody purification and affinity isolation, as well as enzymic or fluorochrome antibody labelling.

NeoRx Corp

410 W Harrison St, Seattle, WA 98119.
Tel: 206 281 7001 Fax: 206 284 7112

Develop monoclonal antibody based pharmaceutical products for in vivo detection and treatment of cancer. Products include technetium imaging agents to stage melanoma, small cell lung cancer and non-small cell lung cancer. The company is presently conducting three clinical trials using its rhenium radiotherapy technology on ovarian and small-cell lung cancer.

Oncogen

3005 First Avenue, Seattle, WA 98121.
Tel: 206 728 4800

New company focusing on areas of cancer diagnosis and treatment. Research areas include monoclonal antibodies to human cancers and tumour viruses, viral and cellular oncogenes, growth factors and inhibitory peptides and hormones and their receptors. Subsidiary of Bristol-Myers, US.

Panlabs Inc

11804 North Creek Parkway South, Bothell, WA 98011-8805.
Tel: 206 487 8200 Telex: 517335 pan labs sea
Fax: 206 467 3787

Provides bioscience laboratory services in both classical genetic and recombinant fermentation, strain improvement, natural product discovery and pharmacology screening.

Procyte Corp

12040 115th Ave NE, Kirkland, WA 98034.
Tel: 206 820 4548 Fax: 206 820 4111

Developing peptide-copper compounds for tissue repair and wound healing applications including prevention of hair loss.

R&A Plant/Soil Inc

24 Pasco/Kahlotus Rd, Pasco, WA 99301.
Tel: 509 545 6867

Supplies cultures of bacteria, algae and cyanobacteria to farmers for use as soil conditioners and fertilizers. Investigating use of cyanobacteria as a means of nitrogen fixation in agriculture.

Solomon Park Research Laboratories

12815 NE 124th St, Suite 1, Kirkland, WA 98034.
Tel: 206 821 7005 Fax: 206 821 5508

Products include a cholesterol quality control kit, apolipoproteins and lipoproteins and related antisera.

Targeted Genetics Corp

51 University Street, Seattle, WA 98101.
Tel: 206 587 0606

Develops ex-vivo processes for gene therapy. A subsidiary of Immunex Corp.

Ultradiagnostics

4526 11th Ave. NE, Seattle, WA 98105.
Tel: 206 545 7807 Fax: 206 545 4317

Produces reagents for therapeutics testing and fluorescent reagents for the bioinstrumentation industry.

Upchurch Scientific Inc

2969 North Goldie Rd, PO Box 1529, Oak Harbor, WA 98277.

Tel: 206 679 2528/800 426 0191
Telex: 152465 Fax: 206 679 3830

Supplier of products for liquid transfer applications including HPLC and FIA worldwide. Design, develop, manufacture, sell and support fittings and accessories.

Vanson Co

8840 152nd Ave NE, Redmond, WA 98052.
Tel: 206 881 6464 Fax: 206 882 2476

Manufacture, develop and market chitin- and chitosan- based polymers.

Veterinary Research & Development Inc

PO Box 502, Pullman, WA 99163.
Tel: 509 334 5815 Telex: 9102507465
Fax: 509 332 5356

Produce reagents for immunodiagnoses and offer services in custom blood and serum collection, custom antiserum production etc, as well as immunodeficiency analysis for Arabian horses.

VMRD Inc

PO Box 502, NW 115 State St, Pullman, WA 99163.
Tel: 509 334 5815/800 222 8673
Telex: 910 250 7465 vmrd Fax: 509 332 5356

Developing veterinary diagnostics.

Washington State Department of Trade and Economic Development

312 First Ave, North, Seattle, WA 98109.
Tel: 206 464 7143 Fax: 206 464 7222

Promotes the economic growth of the biotechnology industry in the state.

Washington State University

Department of Genetics & Cell Biology

Science Hall, Pullman, WA 99164-4234.
Tel: 509 335 3634 Fax: 509 335 3517

Carrying out research on the cloning and expression of bovine interleukin 2 in mammalian cells, bacteria and yeasts as well as investigating therapeutic use in cattle; establishment of leguminous plant genetic transformation systems; cloning and molecular analysis of specific plant genes; construction of versatile shuttle expression vectors; genetic dissection of bacterial chemotaxis and protein export; molecular analysis of cellulase genes from bovine rumen fungi; molecular study of nitrogen fixation; prokaryotic gene regulation.

Washington State University

Johnson Hall 201, Pullman.
Tel: 509 335 3975 Fax: 509 335 8674

Studying molecular genetics of nitrate reductase, gene structure and regulation; application of tissue and microspore culture to plant breeding; molecular mechanisms of cereal crop recognition and acclimatization to environmental change with primary emphasis on ABA-induced genes; nitrogen-fixation and genetic engineering of *Bacillus thuringiensis* toxin genes.

Washington State University

Department of Microbiology

Pullman, WA 99164-4233.
Tel: 509 335 3323

Developing bacteriophage as cloning vectors for use with gram negative bacteria and studying cloning in *E coli*, *Serratia*, *Klebsiella* and *Rhizobium*.

Washington State University

College of Agriculture Department of Plant Pathology

Pullman.

Studying role of histones as disease resistance factors in higher plants.

University of Washington, Seattle

Department of Genetics

A-300 Health Sciences Center, Seattle, WA 98195.

Studying replication in eukaryotic chromosomes and transmission of multiple copy genetic elements.

Weyerhaeuser Co

255 S 336th St, Tacoma, WA 98477.
Tel: 206 924 2345

Developing new varieties of crop and horticultural plants using tissue culture techniques.

ZymoGenetics Inc

4225 Roosevelt Way NE, Seattle, WA 98105.
Tel: 206 547 8080 Telex: 294890
Fax: 206 548 2329

Undertakes contract research in relation to genetic engineering of yeasts and other fungi. Developing growth factors for wound repair and coagulation proteins for haemophilia and thrombolysis.

West Virginia — WV

Allelic Biosystems

Rte 1, PO Box 230, Kearneysville, WV 25430.
Tel: 304 725 5255

Products include veterinary tests for toxins, probes and reagents.

Queue Systems Inc

PO Box 1901, Parkersburg, WV 26102.
Tel: 704 658 0657/800 222 6902
Telex: 869424 Fax: 704 658 0363

Supplies fermenters and bioreactors for cell culture as well as cell environmental and cryopreservation systems.

Wisconsin — WI

Agracetus Inc

8520 University Green, Middleton, WI 53562.
Tel: 608 836 7300 Fax: 608 836 9710

Carries out research and development on agricultural projects using new technologies of molecular genetics and plant cell culture. Target crops include corn, soybean and cotton. Projects include inserting Bt genes into crops to produce insect resistance. Subsidiary of WR Grace & Co, US.

Agrigenetics Co

Madison Laboratories

5649 E Buckeye Rd, Madison, WI 53716.
Tel: 608 221 5000 Fax: 608 221 5008

Agrigenetics Headquarters: 35575 Curtis Blvd, Eastlake, OH 44095.
Tel: 216 942 2210 Fax: 216 942 5781

Diversified seed and genetic engineering research company that seeks to commercialize the results of plant breeding and biotechnology in crop agriculture. The research programme uses new technologies including cell and tissue culture as well as recombinant DNA technology in addition to traditional plant breeding techniques. Operates a strategic research laboratory (Madison Laboratories), a speciality vegetable oil company, eight separate North American seed companies and an international division. Part of Mycogen Corp, US.

Aldrich Chemical Co Inc

1001 West St Paul Avenue, PO Box 2060, Milwaukee, WI 53201.
Tel: 414 273 3850/800 558 9160
Telex: 26843 aldrich
Fax: 414 273 4979/800 9629591

Supplies fine organic and inorganic chemicals, stains and dyes, HPLC, spectrophotometric and anhydrous solvents, deuterated compounds and other reagents for nuclear magnetic resonance studies, atomic absorption standards, stable isotopes, specialized glassware, molecular modelling software, books, equipment etc, for both research and industry. Subsidiary of Sigma-Aldrich Corporation.

Arthur Technology Inc

formerly Tech-Line Instruments

574 Prairie Rd, Tri Campus Park, PO Box 1236, Fond du Lac, WI 54936-1236.
Tel: 414 922 6970/800 328 7518
Fax: 414 922 1085

Supply products and services to the biotechnology sector with emphasis on wastewater treatment, fermentation and biomedical areas including respirometer instrumentation to measure bioactivity.

Bio-Technical Resources LP

1035 South 7th St, Manitowoc, WI 54220.
Tel: 414 684 5518 Fax: 414 684 5519

Contract R&D biotechnology company specializing in microbial strain improvement and the development of fermentation processes. Interests include the industrial application of heterotrophically grown microalgae, hydrocarbon bioconversions, scale-up of fermentation processes, food and flavour technology and consulting.

Biorenewal Technologies Inc

The Faraday Center, 2800 S Fish Hatchery Rd, Madison, WI 53711.
Tel: 608 276 8980 Fax: 608 273 6989

Offer bioremediations services.

Biospur Inc

PO Box 17379, Milwaukee, WI 53217.
Tel: 414 352 4229 Fax: 414 352 6075

Supply vegetable proteins and hydrolyzates.

Chr Hansen Laboratory Inc

9015 West Maple St, Milwaukee, WI 53214.
Tel: 414 476 3630

Manufacture enzymes for dairy industries and microbial protein. Develop microbial strains by recombinant DNA techniques. Subsidiary of Chr Hansen, Denmark.

Crop Science Society of America Inc

677 South Segoe Road, Madison, WI 53711.
Tel: 608 273 8080 Fax: 608 273 2021

Promotes all aspects of plant crop science through meetings, publications and coordination of the activities of those involved in both crop research and crop production. Publishes Crop Science.

Dnastar Inc

1228 South Park St, Madison, WI 53715.
Tel: 608 258 7420 Fax: 608 258 7439

Supplies a comprehensive analysis software package (DOS, Windows and Mac). Bimonthly updates keep in investigators abreast of the GenBank, NBRF-PIR, SwissProt, EMBL, and Brookhaven databases. In addition to database searching the software can accomplish sequence comparison, circular and linear restriction maps, sequence analysis and presentation. Also offers sequence gel assembly software - currently being used in one of the E.coli genome sequencing projects.

Elias USA Inc

373 280th St, Osceola, WI 54020.
Tel: 715 294 2144 Fax: 715 294 3921

Produce medical diagnostic products including ELISAs for autoimmune diseases.

Epicentre Technologies

1202 Ann St, Madison, WI 53713.
Tel: 608 277 8474/800 284 8474
Fax: 608 277 1268

Supply reagents for molecular and cellular biology including brefeldin A, phage RNA polymerase, thermostable DNA ligase, a gel-digesting preparation, thermostable DNA polymerase, phosphatase, DNase protein and many other products.



eppendorf® is a registered trademark

Eppendorf North America Inc

545 Science Dr, Madison, WI 53711.
Tel: 608 231 1188 Fax: 608 231 1339

Develops and manufactures equipment and reagents for the biotechnology industry. Recent developments include DNA and peptide synthesizers, amino acid analyzers, glucose monitoring systems processes, cell injection/patch clamp work stations, thermal cycler, and related reagents.

FIatron Systems Inc

510 South Worthington St, Oconomowoc, WI 53066.
Tel: 414 567 3810 Fax: 414 567 4047

Supply HPLC equipment and dialysis and ultrafiltration supplies as well as sample handling systems and pumps.

Forgene Inc

549 Eagle St, PO Box 1370, Rhinelander, WI 54501.
Tel: 715 369 2801

Develops and commercializes genetically-improved trees and new genetic technologies for tree crops, using biotechnology. Proprietary products include white spruce hybrids and Norway spruce. Directly markets trees through Insti-Trees Nursery division.

Fotodyne Inc

16700 West Victor Road, New Berlin, WI 53151-4131.
Tel: 414 785 7000/800 362 3686
Telex: 260127 Fax: 414 785 7013

Manufactures and markets illumination and photodocumentation systems (ultraviolet and visible) for biotechnology research. Also supplies electrophoresis equipment, microcentrifuges and accessories, autoradiography films and developing supplies, shakers, liquid handling instruments and accessories, power supplies and instant image films. Features an analytical and preparative DNA transilluminator.

Gilson Medical Electronics Inc

3000 W Bellline Highway, PO Box 620027, Middleton, WI 53562-0027.
Tel: 608 836 1551/800 445 7661
Telex: 265478 Fax: 608 831 4451

Manufactures HPLC systems, components and accessories for applications in biotechnology. In addition, a variety of automated sample preparation instrumentation is available.

Harlan Teklad Research Diets

PO Box 44220, Madison, WI 53744-4220.
Tel: 608 277 2070 Fax: 608 277 2066

Supplies ingredients for research diets for laboratory animals, including vitamin and mineral mixtures, vitamins and amino acids, as well as manufacturing custom research diets to order.

Kendrick Labs Inc

1202 Ann St, Madison, WI 53791-8525.
Tel: 608 258 1569/800 462 3417
Fax: 608 258 1565

Offer custom 2-D protein electrophoresis services.

Knight Hollow Nursery Inc

3333 atom Rd., Middleton, WI 53562.
Tel: 608 831 5570

Produces plant clones using tissue culture technology.

L William Teweles & Co

777 E Wisconsin Avenue, Milwaukee, WI 53202.
Tel: 414 273 4854 Fax: 414 273 8140

Management consultants specializing in plant crops and national and international seed industries. Also active in seed company mergers and acquisitions. Carry out multi-client studies in areas of seed technology such as coating and pelleting, hybrid seeds, plant genetics etc.

Lachat Instruments

6645 West Mill Road, Milwaukee, WI 53218.
Tel: 414 358 4200 Telex: 269681
Fax: 414 358 4206

Supply bioreactor process closed-loop monitor and controlling systems with associated software for simultaneous monitoring of up to four analytes for laboratory, pilot plant and full scale production plant.

Larkspur Corp

Box 17379, Milwaukee, WI 53217.
Tel: 414 352 4229 Fax: 414 352 6075

Produces fermentation nutrients and ethyl alcohol.

LiphaTech Inc

formerly Nitragin Co

3101 West Custer Ave, Milwaukee, WI 53029.
Tel: 414 462 7600 Fax: 414 462 7186

Research and manufacture nitrogen-fixing bacteria, legume inoculants and seed treatments. Research and manufacture rodenticides. Division of Lipha, France.

Mattson Instruments Inc

1001 Fourier Court, Madison, WI 53717.
Tel: 608 831 5515 Telex: 262008
Fax: 608 831 2093

Manufacture infrared spectrometers.

Miller Brewing Co

3939 West Highland Boulevard, Milwaukee, WI 53201.

Tel: 414 931 3062 Fax: 414 931 2506

Major producer of beer carrying out research into yeast genetics and other aspects of yeast microbiology.

Molecular Biology Resources Inc

5520 W Burleigh St, Milwaukee, WI 53210.
Tel: 414 871 7199/800 626 7873
Fax: 414 871 1273

Supply reagents, DNA and RNA modifying enzymes, restriction endonuclease, synthetic DNA products, nucleic acids and research kits. Specialize in bulk/wholesale and private label products.

Niro Filtration

Division of Niro Hudson Inc

1600 O'Keefe Road, Hudson, WI 54016.
Tel: 715 386 9371/800 826 7142
Fax: 715 386 9376

Engineers and manufacturers of ultrafiltration, microfiltration and reverse osmosis membrane separation systems for purification and concentration of fermentation products.

Niro Soavi

Division of Niro Hudson Inc

1600 O'Keefe Road, Hudson, WI 54016.
Tel: 715 386 9371 Fax: 715 386 9376

Design, manufacture, supply, test and install homogenizers and high pressure pumps for the food, dairy, chemical, petrochemical, cosmetic and pharmaceutical industries.

Nor-Lake Scientific

PO Box 248, Second & Elm Sts, Hudson, WI 54016.
Tel: 715 386 2323/800 477 5253
Fax: 715 386 6149

Manufactures refrigerators and freezers as well as environmental rooms and mini-room refrigerated storage. Division of Nor-Lake Inc, US.

Novagen Inc

597 Science Drive, Madison, WI 53711.
Tel: 608 238 6110/800 526 7319
Fax: 608 238 1388

Manufactures advanced molecular biology reagents and kits including a system for gene cloning, protein expression and protein purification; T-vectors for direct cloning of PCR products; kits to prepare single-stranded DNA for sequencing; a system for mapping epitopes and protein domains; a system for PCR amplification and cloning of p53 cDNAs and genomic DNA; a system for amplification and cloning of immunoglobulin variable regions; kits for cloning cDNA; stock cDNA and genomic libraries; custom library services; kits for in vitro protein

Part II Wisconsin — WI UNITED STATES OF AMERICA

synthesis; competent cells; nucleic acids; PCR markers; RNA markers, protein markers and enzymes. Cell biology products include a kit for in situ hybridization as well as mouse and rat tissue sections mounted on slides and ready for in situ hybridization. Also engages in custom research for biotechnology product development and production.

Ophidian Pharmaceuticals Inc

2800 S Fish Hatchery Rd, Madison, WI 53711.
Tel: 608 271 0878 Fax: 608 273 6989

Manufactures pharmaceuticals and diagnostics.

Pabst Brewing Co

917 West Juneau Avenue, Milwaukee, WI 53201.

Major brewing company.

Panvera Corp

565 Science Dr, Madison, WI 53711.
Tel: 608 233 9450 Fax: 608 233 3007

Manufactures biological reagents for diagnostic and research applications.

PMP Fermentation Products Inc

7670 N Pt Washington, Milwaukee, WI 53217.

Manufactures industrial enzymes for use in paper manufacture, desizing (de-starching textiles) etc, as well as sodium gluconate and gluconic acid. Has an active research group developing new industrial, food and animal feed products based on fermentation and microbiology. Subsidiary of Fujisawa Pharmaceutical Co Ltd, Japan.

Pope Scientific Inc

Commerce Ave, PO Box 495, Menomonee Falls, WI 53051.

Manufacture portable vessels for processing of sterile or hazardous liquids (from 1 to 100 gallons).

Promega Corp

2800 Woods Hollow Rd, Madison, WI 53711-5399.
Tel: 608 274 4330/800 356 9526
Telex: 62057092 Fax: 608 273 6967

Produces reagents and kits for molecular biology research. Products include restriction and modifying enzymes, ribonuclease inhibitor, cell growth and regulation factors, kits for transcription, translation, cDNA synthesis/cloning, nucleic acid labelling/detection/purification, DNA sequencing/mutagenesis, eukaryotic expression and protein analysis. Also produces DNA typing systems and probes for genetic identification and rapid assay systems for detecting microbial contamination on food processing equipment and in foods and beverages. Services include oligonucleotide synthesis, antibody production, fermentation, bioprocessing and biomolecule purification for biopharmaceuticals and diagnostics manufacture.

Prototype Design Services Inc

6524 Seybold Rd, Madison, WI 53719.
Tel: 608 276 3100 Fax: 608 276 3110

Offer custom services in production. Supply electrophoresis equipment.

Scientific Protein Laboratories

Division of Viobin Corp, a subsidiary of American Home Products Corp

700 E Main St, PO Box 158, Waunakee, WI 53597.
Tel: 608 849 5944/800 334 4SPL
Fax: 608 849 4053

Manufactures animal derived pharmaceuticals and biotechnology products in bulk.

Small Potatoes Inc

1202 Ann St, Madison, WI 53713.
Tel: 608 256 6646 Fax: 608 255 7779

Produce disease-free potato microtubers in vitro. Developing recombinant potatoes.

Stine Microbial Products

4722 Pflaum Rd, Madison, WI 53704.
Tel: 608 221 9789

Produces products based on soil bacteria for the control of plant parasitic fungi and nematodes on a range of crops including corn, cotton, soya, sugarbeet and sunflowers.

Tri-Clover Inc

Kenosha.

Manufacture stainless steel flow control products for use in sterile production facilities of food, beverage, pharmaceutical and cosmetic industries. Products include pumps, valves, fittings and flow controllers.

United States Department of Agriculture

Forest Products Laboratory, USDA Forest Service

One Gifford Pinchot Drive, Madison, WI 53705.
Tel: 608 231 9200 Telex: 7400032
Fax: 608 231 9592

Research seeks to expand the understanding of all aspects of conversion and use of the timber resource. Current areas of research and technology transfer are wood products; pulp, paper and composites; protection and market; microbial and biochemical conversion; and international forest products.

Universal BioVentures

Biotechnology Branch

Technical Center, 6143 N 60th St, Milwaukee, WI 53218.

Tel: 414 271 6755 Fax: 414 347 3785

Major producer of yeast for food and animal feed products. Production of torula yeast includes *Kluveromyces fragilis* grown on whey. Also produces ethanol, yeast hydrolyzates, plant proteins and biopesticides.

Viobin Corp

700 E Main St, PO Box 158, Waunakee, WI 53597.
Tel: 608 849 5944 Fax: 608 849 4053

Produces a wide range of products for biotechnological, food and pharmaceutical applications, including blood products, bovine albumin, globulins, thrombin, pancreatin, pancrelipase, trypsin, hemanins, defatted liver powder, cross-linked activated affinity gels and glycosaminoglycans.

Waukesha Foundry Division

Abex Corp

1300 Lincoln Avenue, Waukesha, WI 53186.
Tel: 414 542 0741

Manufacture aseptic pumps for use in the food industry. Also manufacture engine generator systems for heat and electricity production fuelled on landfill gas, biogas or mines gas.

University of Wisconsin

Biotechnology Center

1710 University Avenue, Madison, WI 53705.
Tel: 608 262 8606 Fax: 608 262 6748

Promotes biotechnology and related activities, provision of service facilities and university links with industry including education and technology transfer.

University of Wisconsin, Madison

McArdle Laboratory for Cancer Research

Madison, WI 53706.
Tel: 608 262 1256

Carrying out research on the use of DNA adapter molecules in extending the use of restriction enzymes by permitting cleavage at any location. The techniques which have applications in gene transfer are being developed commercially by New England Biolabs, US.

University of Wisconsin, Madison

Department of Agricultural Engineering

Madison.
Tel: 608 262 1106

Has carried out detailed studies on the performance of an on-farm large-scale poultry manure anaerobic digester.

University of Wisconsin, Madison

Agricultural Experiment Station

116 Agricultural Hall, Madison, WI 53706.

Studying production of twins in cattle using techniques of embryo transfer and use of plasmids from *Agrobacterium tumefaciens* as a vector for transfer of genetic material to higher plants.

University of Wisconsin, Madison

Laboratory of Molecular Biology

1525 Linden Drive, Madison, WI 53706.
Tel: 608 262 2059 Fax: 608 262 4570

Areas of research activity include: molecular biology including cellular control mechanisms in development in nematodes; molecular basis of frameshift mutation and frameshift suppression in eukaryotes; genetic and molecular approaches to *Drosophila* embryonic pattern formation; biomolecular organization; cell motility and the mitosis apparatus; neurobiology; molecular biology of photoreceptor membranes; biochemical genetics; cell aging; mechanism of membrane excitation; genetics and electrophysiology of simple behaviour.

University of Wisconsin, Milwaukee

Graduate School Bolton Hall, Milwaukee, WI 53201.

Carrying out studies on construction in vitro of chimeric Ti plasmids and their use to transfer foreign genes into cells of higher plants.

Xylan Inc

505 Science Dr. Suite D, Madison, WI 53711.
Tel: 608 238 4600

Produces delignified plant material.