

P R I M A R Y   S T R U C T U R E S   O F  
N U C L E I C   A C I D S

Biochemical and Biophysical Research Communications

119 No. 1 1984

Molecular Cloning and Sequence Analysis of cDNA for Human Transferrin. Uzan, G. et al. (Paris, France) - p. 273

119 No. 2 1984

Identification of the Probable Coding Region for Exon 2 of Cytochrome Oxidase Polypeptide I from Aspergillus nidulans Mitochondrion. Geroge, D. G. et al. (Washington, USA) - p. 786

119 No. 3 1984

Sequence of tRNA<sup>Ile</sup> from Brewer's Yeast. Pixa, G. et al. (Strasbourg, France) - p. 905

A Fusion Gene in Man: DNA Sequence Analysis of the Abnormal Globin Gene of Hemoglobin Miyada. Kimura, A. et al. (Fukuoka, Japan) - p. 968

120 No. 3 1984

Isolation and Characterization of a cDNA Encoding the Precursor for Human Apolipoprotein AII. Knott, T. J. et al. (Harrow, UK) - p. 734

121 No. 1 1984

Nucleotide Sequence of the Promoter Region of the Melibiose Operon of Escherichia coli. Shimamoto, T. et al. (Okyama, Japan) - p. 41

The Biochemical Journal

219 No. 1 1984

Construction and Characterization of a Plasmid Containing Complementary DNA to mRNA Encoding the N-Terminal Amino Acid Sequence of the Rat Glutathione Transferase Ya Sub-unit. Taylor, J. B. et al. (London, UK) - p. 223

Biochemistry

23 No. 8 1984

Characterization of Bovine Prothrombin mRNA and its Translation Product. MacGillivray, R. T. A. and Davie, E. W. (Vancouver, Canada) - p. 1626

Biochemistry International

8 No. 5 1984

Nucleotide Sequence and Expression in E. coli of a Human Interferon- $\alpha$  Gene Selected from a Genomic Library Using Synthetic Oligonucleotides. Linnane, A. W. et al. (Clayton, Australia) - p. 725

Biochimica et Biophysica Acta

781 No. 3 1984

Comparative Analysis of the cDNA Sequences Derived from the Larval and the Adult  $\alpha_1$ -Globin mRNAs of Xenopus laevis. Andres, A.-C. et al. (Bern, Switzerland) - p. 294

782 No. 1 1984

Sequences Around the 3'-End of a Ribosomal RNA Gene of Hamster Mitochondria. Further Support for the "Transcriptional Attenuation" Model. Kotin, R. M. and Dubin, D. T. (Piscataway, USA) - p. 106

782 No. 2 1984

Nucleotide Sequence of Nuclear 5.4 S RNA of Mouse Cells. Kato, N. and Harada, F. (Tokyo, Japan) - p. 127

782 No. 3 1984

Processed Pseudogenes. Characteristics and Evolution. Vanin, E. F. (Columbus, USA) - p. 231  
The Nucleotide Sequence of Bacteriophage T5 Glutamine Transfer RNA. Shlyapnikov, M. G. et al. (Pushchino, USSR) - p. 313

Biochimie

65 No. 11/12 1983

Primary Structure of Three tRNAs from Brewer's Yeast: tRNA<sup>Pro</sup>, tRNA<sup>His</sup> and tRNA<sup>2</sup>. Keith, G. et al. (Strasbourg, France) - p. 661

## Recently Published Papers in the Field of Molecular Evolution

### GENERAL ASPECTS

Biochemical and Biophysical Research Communications

121 No. 1 1984

Hydropathic Anti-Complemenarity of Amino Acids Based on the Genetic Code. Blalock, J. E. and Smith, E. M. (Galveston, USA) - p. 203

Journal of Theoretical Biology

107 No. 3 1984

Enzymic Editing Mechanisms and the Origin of Biological Information Transfer. Lambert, G. R. (Liverpool, UK) - p. 387

Molecular Biology and Evolution

1 No. 1 1983

Role of Cryptic Genes in Microbial Evolution. Hall, B. G. et al. (Storrs, USA) - p. 109

Estimates of DNA and Protein Sequence Divergence: An Examination of Some Assumptions. Golding, G. B. (Triangle Park, USA) - p. 125

1 No. 2 1984

Retention of Cryptic Genes in Microbial Populations. Li, W.-H. (Houston, USA) - p. 213

1 No. 3 1984

Estimation of Evolutionary Distance Between Nucleotide Sequences. Tajima, F. and Nei, M. (Houston, USA) - p. 269

Naturwissenschaften

71 No. 2 1984

Early Geological Record and the Origin of Life. Pflug, H. D. (Gießen, FRG) - p. 63

Proceedings of the National Academy of Sciences of the USA

81 No. 8 1984

Birth of a Unique Enzyme from an Alternative Reading Frame of the Preexisting, Internally Repetitious Coding Sequence. Ohno, S. (Duarte, USA) - p. 2421

Bioscience Reports

4 No. 1 1984

Isolation and Partial Sequence of Bovine cDNA Clones for the High-Mobility-Group Protein (HMG-1). Pentecost, B. and Dixon, G. H. (Calgary, Canada) - p. 49

Cell

36 No. 3 1984

Genes in S. cerevisiae Encoding Proteins with Domains Homologous to the Mammalian ras Proteins. Powers, S. et al. (Cold Spring Harbor, USA) - p. 607  
 Novel Proteins Belonging to the Troponin C Superfamily are Encoded by a Set of mRNAs in Sea Urchin Embryos. Carpenter, C. D. et al. (Bloomington, USA) - p. 663  
 Mechanisms of Divergence and Convergence of the Human Immunoglobulin  $\alpha 1$  and  $\alpha 2$  Constant Region Gene Sequences. Flanagan, J. G. et al. (Cambridge, UK) - p. 681  
 Sequence of the Preprotoxin mRNA Gene of Type I Killer Yeast: Multiple Processing Events Produce a Two-Component Toxin. Bostian, K. A. et al. (Providence, USA) - p. 741

36 No. 4 1984

The Structural Basis of the Multiple Forms of Human Complement Component C4. Beltz, K. T. et al. (Oxford, UK) - p. 907  
 Vesicular Stomatitis Virus Defective Interfering Particles Can Contain Extensive Genomic Sequence Rearrangements and Base Substitutions. O'Hara, P. J. et al. (La Jolla, USA) - p. 915  
 Internal Sequences are Eliminated from Genes During Macro-nuclear Development in the Ciliated Protozoan Oxytricha nova. Klobutcher, L. A. et al. (Boulder, USA) - p. 1045

37 No. 1 1984

Nucleotide Sequence Analysis Identifies the Human c-sis Proto-Oncogene as a Structural Gene for Platelet-Derived Growth Factor. Chiu, I.-M. et al. (Bethesda, USA) - p. 123  
 Identification of the Pleiotropic Cell Division Cycle Gene NDA2 as One of Two Different  $\alpha$ -Tubulin Genes in Schizosaccharomyces pombe. Toda, T. et al. (Kyoto, Japan) - p. 233  
 Structural and Functional Analysis of the Human Metallothionein-I $\alpha$  Gene: Differential Induction by Metal Ions and Glucocorticoids. Richards, R. I. et al. (Canberra, Australia) - p. 263  
 Complete Nucleotide Sequence of an Unusual Mobile Element from Trypanosoma brucei. Hasan, G. et al. (Cambridge, UK) - p. 333

37 No. 2 1984

The Human T Cell Antigen Receptor is Encoded by Variable, Diverse, and Joining Gene Segments that Rearrange to Generate a Complete V Gene. Siu, G. et al. (Toronto, Canada) - p. 393  
 A Homologous Protein-Coding Sequence in Drosophila Homeotic Genes and Its Conservation in Other Metazoans. McGinnis, W. et al. (Basel, Switzerland) - p. 403  
 Cloning of an X. laevis Gene Expressed During Early Embryogenesis: Coding for a Peptide Region Homologous to Drosophila Homeotic Genes. Carrasco, A. E. et al. (Basel, Switzerland) - p. 409

The Gene Family Encoding the Mouse Ribosomal Protein L32 Contains a Uniquely Expressed Intron-Containing Gene and an Untranslated Processed Gene. Dudov, K. P. and Perry, R. P. (Philadelphia, USA) - p. 457  
 Organization of Contractile Protein Genes Within the 88F Subdivision of the D. melanogaster Third Chromosome. Karlik, C. C. et al. (Baltimore, USA) - p. 469  
 A Novel Alteration in the Structure of an Activated c-myc Gene in a Variant t(2;8) Burkitt Lymphoma. Taub, R. et al. (Boston, USA) - p. 511

Domain Map of the LDL Receptor: Sequence Homology with the Epidermal Growth Factor Precursor. Russell, D. W. et al. (Dallas, USA) - p. 577  
 The Nucleotide Sequence of the Maize Controlling Element Activator. Pohman, R. F. et al. (Baltimore, USA) - p. 635  
 Genes of the Protozoan Parasite Babesia bovis that Rearrange to Produce RNA Species with Different Sequences. Cowman, A. F. et al. (Melbourne, Australia) - p. 653

Chromosoma

89 No. 3 1984

Conservation of Highly Repetitive DNA in Cetaceans. Arnason, U. et al. (Lund, Sweden) - p. 238

Current Genetics

8 No. 2 1984

Biogenesis of Mitochondria. Genetic and Molecular Analysis of the ol12 Region of Mitochondrial DNA in Saccharomyces cerevisiae. Novitski, C. E. et al. (Clayton, Australia) - p. 135

DNA

3 No. 1 1984

DNA Sequence Analysis of the Type-Common Glycoprotein-D Genes of Herpes Simplex Virus Types 1 and 2. Lasky, L. A. and Dowbenko, D. (San Francisco, USA) - p. 23  
 Cloning and Sequencing of the Ribosomal RNA Genes in Maize: The 17S Region. Messing, J. et al. (St. Paul, USA) - p. 31

EMBO Journal

3 No. 2 1984

UAG Readthrough During TMV<sub>Tyr</sub> RNA Translation: Isolation and Sequence of Two tRNAs<sub>Tyr</sub> with Suppressor Activity from Tobacco Plants. Beier, H. et al. (Wurzburg, FRG) - p. 351

Nucleotide Sequence of the Cloned mRNA and Gene of the ADP/ATP Carrier from Neurospora crassa. Arends, H. and Sebald, W. (Braunschweig, FRG) - p. 377

Nucleotide Sequence of the Human c-myc Locus: Provocative Open Reading Frame within the First Exon. Gazin, C. et al. (Paris, France) - p. 383

Sequence and Cloning of Bacteriophage T4 Gene 63 Encoding RNA Ligase and Tail Fibre Attachment Activities. Rand, K. N. and Gait, M. J. (Cambridge, UK) - p. 397

Localization and Sequence Analysis of Chloroplast DNA Sequences of Chlamydomonas reinhardtii that Promote Autonomous Replication in Yeast. Vallet, J.-M. et al. (Geneva, Switzerland) - p. 415

Isolation and Characterization of the Human Prolectin Gene. Truong, A. T. et al. (Sart Tilman, Belgium) - p. 429

3 No. 3 1984

Evolution of Aspartyl Proteases by Gene Duplication: the Mouse Renin Gene is Organized in Two Homologous Clusters of Four Exons. Holm, I. et al. (Paris, France) - p. 557

Cloning Sequences from the hairy Gene of Drosophila. Holmgren, R. (Cambridge, UK) - p. 569

Molecular Cloning, DNA Structure and Expression of the Escherichia coli D-Xylose Isomerase. Briggs, K. A. et al. (Joinville Le Pont, France) - p. 611

Biosynthesis of Thyrotropin Releasing Hormone in the Skin of Xenopus laevis: Partial Sequence of the Precursor Derived from Cloned cDNA. Richter, K. et al. (Salzburg, Austria) - p. 617

3 No. 4 1984

The Complete Nucleotide Sequence of the TL-DNA of the Agrobacterium tumefaciens Plasmid pTiAch5. Gielen, J. et al. (Ghent, Belgium) - p. 835

Complete Nucleotide Sequence of a Gene Encoding a Functional Human Class I Histocompatibility Antigen (HLA-CW3). Sodoyer, R. et al. (Marseille, France) - p. 879

Complete Nucleotide Sequence of a Functional Class I HLA Gene, HLA-A3; Implications for the Evolution of HLA Genes. Strachan, T. et al. (Marseille, France) - p. 887

3 No. 5 1984

The DNA Sequence of the Nuclear Gene Coding for the 17-kD Subunit VI of the Yeast Ubiquinol-Cytochrome c Reductase: A Protein with an Extremely High Content of Acidic Amino Acids. Van Loon, A. P. G. M. et al. (Amsterdam, The Netherlands) - p. 1039

Transcription and DNA Sequence of the BamH I Fragment of B95-8 Epstein-Barr Virus. Biggin, M. et al. (Cambridge, UK) - p. 1083

3 No. 6 1984

The Nucleotide Sequence of the Murine  $I-\beta^b$  Immune Response Gene: Evidence for Gene Conversion Events in Class II Genes of the Major Histocompatibility Complex. Widera, G. and Flavell, R. A. (Cambridge, USA) - p. 1221

The Nucleotide Sequence of a Complete Chicken  $\delta$ -Crystallin cDNA. Yasuda, K. et al. (Kyoto, Japan) - p. 1397

Developmentally Regulated Plant Genes: The Nucleotide Sequence of a Wheat Gladin Genomic Clone. Rafalski, J. A. et al. (New Haven, USA) - p. 1409

European Journal of Biochemistry

140 No. 3 1984

Cloning and Structure Analysis of the Rat Apolipoprotein A-I cDNA. Poncin, J. E. et al. (Liege, Belgium) - p. 493

141 No. 2 1984

Nucleotide Sequence of the sucA Gene Encoding the 2-Oxo-glutarate Dehydrogenase of Escherichia coli K12. Darlison, M. G. et al. (Sheffield, UK) - p. 351

Nucleotide Sequence of the sucB Gene Encoding the Dihydro-lipoamide Succinyltransferase of Escherichia coli K12 and Homology with the Corresponding Acetyltransferase. Spencer, M. E. et al. (Sheffield, UK) - p. 361

FEBS Letters

168 No. 1 1984

Characterization of Human Haptoglobin cDNAs Coding for  $\alpha$ - $\beta$  and  $\alpha'$ - $\beta$  Variants. Van der Straten, A. et al. (Rhode-St-Genèse, Belgium) - p. 103

168 No. 2 1984

A Transposon-Like DNA Fragment Interrupts a Physarum polycephalum Histone H4 Gene. Wilhelm, M. L. and Wilhelm, F.-X. (Strasbourg, France) - p. 249

171 No. 1 1984

The Corrected Nucleotide Sequences of 5S RNAs from Six Angiosperms. With Some Notes on 5S RNA Secondary Structure and Molecular Evolution. Vandenberghe, A. et al. (Wilrijk, Belgium) - p. 17

171 No. 2 1984

The Complete Nucleotide Sequence of the Xylanase Gene (xynA) of Bacillus pumilus. Fukusaki, E. et al. (Osaka, Japan) - p. 197

A Novel Type of Crystallin the Frog Eye Lens. 35-kDa Polypeptide is not Homologous to Any of the Major Classes of Lens Crystallins. Tomarev, S.I. et al. (Moscow, USSR) - p. 297

FEMS Microbiology Letters

22 No. 3 1984

The Nucleotide Sequence of the Gene Encoding the K99 Sub-unit of Enterotoxigenic Escherichia coli. Roosendaal, B. et al. (Amsterdam, The Netherlands) - p. 253

Gene

26 No. 2/3 1983

Molecular Cloning and Characterization of the RAD1 Gene of Saccharomyces cerevisiae. Higgins, D. R. et al. (Rochester, USA) - p. 119

The Primary and Secondary Structure of the 5'-End Region of Encephalomyocarditis Virus RNA. A Novel Approach to Sequencing Long RNA Molecules. Vartapetian, A. B. et al. (Moscow, USSR) - p. 189

The Complete Nucleotide Sequence of the Neurospora crassa am (NADP-Specific Glutamate Dehydrogenase) Gene. Kinnaird, J. H. and Fincham, J. R. S. (Edinburgh, UK) - p. 253

DNA Sequence of the Herpes simplex Virus Type 2 Glycoprotein D Gene. Watson, R. J. (Minnetonka, USA) - p. 307

27 No. 1 1984

Nucleotide Sequence of the Bacillus subtilis trpE and trpD Genes. Band, L. et al. (San Francisco, USA) - p. 55

The Nucleotide Sequence of Fragment HindIII-C of Human Adenovirus Type 5 DNA (Map Positions 17.1-31.7). Dekker, B. M. M. and Van Ormondt, H. (Leiden, The Netherlands) - p. 115

27 No. 2 1984

Complete Nucleotide Sequence of the Glutamate Dehydrogenase Gene from Escherichia coli K-12. Valle, F. et al. (Mexico City, Mexico) - p. 193

27 No. 3 1984

DNA Sequence of the Escherichia coli Gene, gnd, for 6-Phosphogluconate Dehydrogenase. Nasoff, M. S. et al. (Catskill, USA) - p. 253

28 No. 1 1984

Nucleotide Sequence Analysis of a Zein Genomic Clone with a Short Open Reading Frame. Kridl, J. C. et al. (St. Paul, USA) - p. 113

28 No. 2 1984

Structural Analysis of the dnaA and dnaN Genes of Escherichia coli. Ohmori, H. et al. (Kyoto, Japan) - p. 159

Structure and Evolution of Mammalian tRNA Genes: Sequence of a Mouse tRNA<sup>Met</sup> Gene, the 5'-Flanking Region of which is Homologous to a Human Gene. Han, J. H. et al. (New York, USA) - p. 249

Nucleotide Sequences of Two Regions of the Human Genome Containing tRNA<sup>Asn</sup> Genes. Ma, D. P. et al. (Norman, USA) - p. 257

Sequences of cDNAs for Human Salivary and Pancreatic  $\alpha$ -Amylases. Nakamura, Y. et al. (Osaka, Japan) - p. 263

Nucleotide Sequence of the Dihydrofolate-Reductase Gene Borne by the Plasmid R67 and Conferring Methotrexate Resistance. Brisson, N. and Hohn, T. (Basel, Switzerland) - p. 271

Indian Journal of Biochemistry and Biophysics

21 No. 1 1984

Restriction Map and Partial Sequence of a Rice DNA Fragment Carrying Histone Genes H2A, H2B and H4. Thomas, G. and Padayatty, J. D. (Bangalore, India) - p. 1

Journal of Bacteriology

157 No. 3 1984

Structural Gene for the Phosphate-Repressible Phosphate-Binding Protein of Escherichia coli Has Its Own Promoter: Complete Nucleotide Sequence of the phoS Gene. Surin, B. P. et al. (Canberra City, Australia) - p. 772

Nucleotide Sequence of the phoS Gene, the Structural Gene for the Phosphate-Binding Protein of Escherichia coli. Magota, K. et al. (Fukuoka, Japan) - p. 909

158 No. 1 1984

Sequence of the Saccharomyces GAL Region and Its Transcription in Vivo. Citron, B. A. and Donelson, J. E. (Iowa City, USA) - p. 269

Complete Nucleotide Sequence of Mini-Rts1 and Its Copy Mutant. Kamio, Y. et al. (Matsumoto, Japan) - p. 307

Nucleotide Sequence of the 5' Region of the Bacillus licheniformis  $\alpha$ -Amylase Gene: Comparison with the B. amyloliquefaciens Gene. Stephens, M. A. et al. (Cambridge, USA) - p. 369

158 No. 2 1984

Replacement of the Bacillus subtilis Subtilisin Structural Gene with an In vitro-Derived Deletion Mutation. Stahl, M. L. and Ferrari, E. (San Francisco, USA) - p. 411

158 No. 3 1984

Complete Nucleotide Sequence and Start Sites for Transcription and Translation of the Bacillus megaterium Protein C Gene. Fliss, E. R. and Setlow, P. (Farmington, USA) - p. 809

Structure of an Escherichia coli tRNA Operon Containing Linked Genes for Arginine, Histidine, Leucine, and Proline tRNAs. Hsu, L. M. et al. (Amherst, USA) - p. 934

Rhizobium japonicum Nitrogenase Fe Protein Gene (nifH). Fuhrmann, M. and Hennecke, H. (Zürich, Switzerland) - p. 1005

The Journal of Biochemistry

95 No. 2 1984

Nucleotide Sequence of an Essential Region for Autonomous Replication of Cloned Yeast Mitochondrial DNA. Mabuchi, T. and Wakabayashi, K. (Kamanashi, Japan) - p. 589

95 No. 4 1984

The Primary Structure of Phosphoenolpyruvate Carboxylase of Escherichia coli. Nucleotide Sequence of the ppc Gene and Deduced Amino Acid Sequence. Fujita, N. et al. (Kyoto, Japan) - p. 909

95 No. 5 1984

Molecular Cloning and Nucleotide Sequence of DNA Complementary to Human Decidual Prolactin mRNA. Takahashi, H. et al. (Niigata, Japan) - p. 1491

The Journal of Biological Chemistry

259 No. 9 1984

The Nucleotide Sequence of a Rat Liver Glutathione S-Transferase Subunit cDNA Clone. Lai, H.-C. J. et al. (University Park, USA) - p. 5536

Complete Sequence of the Heat Shock-Inducible HSP90 Gene of Saccharomyces cerevisiae. Farrelly, F. W. and Finkelstein, D. B. (Dallas, USA) - p. 5745

Sequences of the Escherichia coli Photolyase Gene and Protein. Sancar, G. B. et al. (Chapel Hill, USA) - p. 6033

259 No. 10 1984

Nucleotide Sequence Reveals Overlap Between T4 Phage Genes Encoding Dihydrofolate Reductase and Thymidylate Synthesis. Purohit, S. and Mathews, C. K. (Corvallis, USA) - p. 6261

Adenovirus Hexon. Sequence Comparison of Subgroup C Serotypes 2 and 5. Kinloch, R. et al. (Glasgow, UK) - p. 6431

Human Apolipoprotein E mRNA. cDNA Cloning and Nucleotide Sequencing of a New Variant. McLean, J. W. et al. (San Francisco, USA) - p. 6498

259 No. 11 1984

- Xylose Isomerase from *Escherichia coli*. Characterization of the Protein and the Structural Gene. Schollenberg, G. D. et al. (Seattle, USA) - p. 6826
- Characterization of a Thyroid Hormone-Responsive Gene from Rat. Liaw, C. W. and Towle, H. C. (Minneapolis, USA) - p. 7253

Journal of Molecular Biology

172 No. 4 1984

- Nucleotide Sequence of the Brome Mosaic Virus Genome and Its Implications for Viral Replication. Ahlquist, P. et al. (Madison, USA) - p. 369

173 No. 2 1984

- Evolution of the Albumin- $\alpha$ -Fetoprotein Ancestral Gene from the Amplification of a 27 Nucleotide Sequence. Alexander, P. et al. (Nutley, USA) - p. 159
- Nucleotide Sequence of the Gene for Bacteriophage T7 RNA Polymerase. Moffatt, B. A. et al. (Upton, USA) - p. 265

174 No. 4 1984

- Complete Nucleotide Sequences of All Three Poliovirus Serotype Genomes. Implication for Genetic Relationship, Gene Function and Antigenic Determinants. Toyoda, H. et al. (Tokyo, Japan) - p. 561

175 No. 3 1984

- Nucleotide Sequence of the *trfA* Gene of Broad Host-Range Plasmid RK2. Smith, C. A. and Thomas, C. M. (Birmingham, UK) - p. 251

Journal of Theoretical Biology

107 No. 4 1984

- Conserved Regions in Mammalian  $\beta$ -Globins: Could They Arise by Cross-Species Gene Exchange? Syvanen, M. (Boston, USA) - p. 685

- Is the Information Content of DNA Evolutionarily Significant? Konopka, A. (Göttingen, FRG) - p. 697

Molecular Biology and Evolution

1 No. 1 1983

- Structure and Evolution of Human and African Ape rRNA Pseudogenes. Brownell, E. et al. (Frederick, USA) - p. 29
- Evolution of Antibiotic Resistance Genes: The DNA Sequence of a Kanamycin Resistance Gene from *Staphylococcus aureus*. Gray, G. S. and Fitch, W. M. (Carouge, Switzerland) - p. 57
- Rapid Evolution of Goat and Sheep Globin Genes Following Gene Duplication. Li, W.-H. and Gojobori, T. (Houston, USA) - p. 94

1 No. 2 1984

- Concerted Evolution of the Immunoglobulin V<sub>H</sub> Gene Family. Gojobori, T. and Nei, M. (Houston, USA) - p. 195

1 No. 4 1984

- Molecular Evolution of Chloroplast DNA Sequences. Curtis, S. E. and Clegg, M. T. (Raleigh, USA) - p. 291
- Rabbit Globin Pseudogene #82 Is a Hybrid of  $\delta$ - and  $\beta$ -Globin Gene Sequences. Hardison, R. C. and Margot, J. B. (University Park, USA) - p. 302
- Evolution of Glucagon Genes. Lopes, L. C. et al. (Houston, USA) - p. 335

Molecular and Cellular Biology

4 No. 2 1984

- Primary Structure of the *Saccharomyces cerevisiae* GAL4 Gene. Laughon, A. and Gesteland, R. F. (Salt Lake City, USA) - p. 260

4 No. 6 1984

- Structure of a Human Smooth Muscle Actin Gene (Aortic Type) with a Unique Intron Site. Ueyama, H. et al. (Bethesda, USA) - p. 1073

- Structure and Expression of the Oncogene c-myc in Fresh Tumor Material from Patients with Hematopoietic Malignancies. Rothberg, P. G. et al. (Philadelphia, USA) - p. 1096
- Repeated Consensus Sequence and Pseudopromoters in the Four Coordinately Regulated Tubulin Genes of *Chlamydomonas reinhardtii*. Brunke, K. J. et al. (Philadelphia, USA) - p. 1115

Molecular and General Genetics

193 No. 3 1984

- A DNA Sequence from *Dictyostelium discoideum* Complements *Ura3* and *Ura5* Mutations of *Saccharomyces cerevisiae*. Boyer, Marcotte, E. et al. (Orsay, France) - p. 406

- Sequence of the Regulatory Region of *ompT*, the Gene Specifying Major Outer Membrane Protein A (3b) of *Escherichia coli* Kl2. Implications for Regulation and Processing. Gordon, G. et al. (Chicago, USA) - p. 414

- Nucleotide Sequence of the 16S-23S Spacer Region in the rRNA Operon from a Blue-Green Alga, *Anacystis nidulans*. Tomioka, N. and Suguri, M. (Aichi, Japan) - p. 427

194 No. 1/2 1984

- Plasmid Macroevolution in a Nosocomial Environment - Demonstration of a Persistent Molecular Polymorphism and Construction of a Cladistic Phylogeny on the Basis of Restriction Data. Lee, S. C. et al. (Minneapolis, USA) - p. 173

- Nucleotide Sequence of the Split Transfer RNA-UUA-Leu Gene from *Vicia faba* Chloroplasts - Evidence for Structural Homologies of the Chloroplast Transfer RNA-Leu Intron with the Intron from the Autospliceable *Tetrahymena* Ribosomal RNA Precursor. Bonnard, G. et al. (Strasbourg, France) - p. 330

194 No. 3 1984

- DNA Sequence and Regulation of *ermD*, a Macrolide-Lincosamide-Streptogramin-B Resistance Element from *Bacillus licheniformis*. Gryczan, T. et al. (New York, USA) - p. 349

- Evolutionary Relationships of the *Bacillus licheniformis* Macrolide-Lincosamide-Streptogramin-B Resistance Elements. Israelliachvili, M. et al. (New York, USA) - p. 362

- Location and Nucleotide Sequence of the Gene for Cytochrome f in Wheat Chloroplast DNA. Willey, D. L. et al. (Cambridge, UK) - p. 416

- Nucleotide Sequence and Functional Properties of DNA Encoding Incompatibility in the Broad Host-Range Plasmid R1162. Lin, L. S. and Meyer, R. J. (Austin, USA) - p. 423

- Sequence and Evolution of the Regions Between the rRN Operons in the Chloroplast Genome of *Euglena gracilis* Bacillaris. Elgewely, M. R. et al. (Ann Arbor, USA) - p. 432

- Location and Nucleotide Sequence of the Gene for the 15.2 kDa Polypeptide of the Cytochrome-b-f Complex from Pea Chloroplasts. Phillips, A. L. and Gray, J. C. (Cambridge, UK) - p. 477

Nature

309 No. 5968 1984

- A Relationship Between the Yeast Cell Cycle Genes *CDC4* and *CDC36* and the *ets* Sequence of Oncogenic Virus *E26*. Peterson, T. A. et al. (Santa Barbara, USA) - p. 556

309 No. 5970 1984

- Cloning and Sequence Analysis of the cDNA for the Rat Atrial Natriuretic Factor Precursor. Yamanaka, M. et al. (Mountain View, USA) - p. 719

- Structure of Rat Atrial Natriuretic Factor Precursor Deduced from cDNA Sequence. Maki, M. et al. (Nashville, USA) - p. 722

- Cloning and Sequence Analysis of cDNA Encoding a Precursor for Human Atrial Natriuretic Polypeptide. Oikawa, S. et al. (Osaka, Japan) - p. 724

309 No. 5971 1984

- Complete Primary Structure of a Heterodimeric T-Cell Receptor Deduced from cDNA Sequences. Saito, H. et al. (Cambridge, USA) - p. 757

- Molecular Cloning of cDNA Encoding a Murine Haematopoietic Growth Regulator, Granulocyte-Macrophage Colony Stimulating Factor. Gough, N. M. et al. (Melbourne, Australia) - p. 763

- Human Epidermal Growth Factor Receptor cDNA is Homologous to a Variety of RNAs Overproduced in A431 Carcinoma Cells. Xu, Y.-H. et al. (Bethesda, USA) - p. 806

310 No. 5972 1984

- Sequence of a *Drosophila* Segmentation Gene: Protein Structure Homology With DNA-Binding Proteins. Laughon, A. and Scott, M. P. (Boulder, USA) - p. 25

- Correct Transcription of an Immunoglobulin k Gene Requires an Upstream Fragment Containing Conserved Sequence Elements. Falkner, F. G. and Zachau, H. G. (München, FRG) - p. 71

Nucleic Acids Research

12 No. 10 1984

- A Minor Class of 5S rRNA Genes in *Saccharomyces cerevisiae* X2180-1B, One Member of Which Lies Adjacent to a Ty Transposable Element. Piper, P. W. et al. (London, UK) - p. 4083

Sequence Analysis of the Transcribed and 5' Non-Transcribed Regions of the Ribosomal RNA Gene in *Dictyostelium discoideum*. Ozaki, T. et al. (Sapporo, Japan) - p. 4171

Sequence and Structure of a Methionine Transfer RNA from Mosquito Mitochondria. Dubin, D. T. and HsuChen, C. C. (Piscataway, USA) - p. 4185

Isolation of cDNA and Genomic DNA Clones Encoding Type II Collagen. Young, M. F. et al. (Bethesda, USA) - p. 4207

12 No. 11 1984

Comparison of the Genes Coding for the Common 5' Terminal Sequence of Messenger RNAs in Three Trypanosome Species. DeLange, T. et al. (Amsterdam, The Netherlands) - p. 4431

Blood Coagulation Factor X mRNA Encodes a Single Polypeptide Chain Containing a Prepro Leader Sequence. Pung, M. R. et al. (Vancouver, Canada) - p. 4481

The Complete Nucleotide Sequence of a Legumin Gene from Pea (*Pisum sativum* L.). Lycett, G. W. et al. (Durham, UK) - p. 4493

Analysis of the Mouse  $\gamma$ -Crystallin Gene Family: Assignment of Multiple cDNAs to Discrete Genomic Sequences and Characterization of a Representative Gene. Lok, S. et al. (Toronto, Canada) - p. 4517

Evolution of Haptoglobin: Comparison of Complementary DNA Encoding *Hpa<sup>IS</sup>* and *Hpa<sup>2FS</sup>*. Brune, J. L. et al. (San Antonio, USA) - p. 4531

Sequences of the *E. coli uvrC* Gene and Protein. Sancar, G. B. et al. (New Haven, USA) - p. 4593

Nucleotide Sequences of Chloroplast 5S Ribosomal RNA from Cell Suspension Cultures of the Liverworts *Marchantia polymorpha* and *Jungemannia subulata*. Yamano, Y. et al. (Kyoto, Japan) - p. 4621

Nucleotide Sequence of the *tmr* Locus of *Agrobacterium tumefaciens* pTi T37 T-DNA. Goldberg, S. B. et al. (Saint Louis, USA) - p. 4665

Primary Structure of Rabbit 18S Ribosomal RNA Determined by Direct RNA Sequence Analysis. Connaughton, J. P. et al. (Washington, USA) - p. 4731

DNA Sequence and Transcription of a DNA Minicircle Isolated from Male-Fertile Sugar Beet. Hansen, B. M. and Marcker, K. A. (Kopenhagen, Denmark) - p. 4747

#### Proceedings of the National Academy of Sciences of the USA

81 No. 8 1984

Cloning and Sequence Analysis of cDNA for Rat Spleen Thymosin  $\beta_4$ . Wodnar-Filipowicz, A. et al. (Nutley, USA) - p. 2295

A Large Interspersed Repeat Found in Mouse DNA Contains a Long Open Reading Frame that Evolves as if it Encodes a Protein. Martin, S. L. et al. (Chapel Hill, USA) - p. 2308

Potential Basis for Regulation of the Coordinately Expressed Fibrinogen Genes: Homology in the 5' Flanking Regions. Fowlkes, D. M. et al. (Bethesda, USA) - p. 2313

Novel Cluster of  $\alpha$ -Interferon Gene Sequences in a Placental Cosmid DNA Library. Lund, B. et al. (Umea, Sweden) - p. 2435

Primary Structural Evidence that the H-2D<sup>q</sup> Region Encodes at Least Three Distinct Gene Products: D<sup>q</sup>, L<sup>q</sup>, and R<sup>q</sup>. Lillehoj, E. P. et al. (Bethesda, USA) - p. 2499

Human T-Cell Growth Factor: Partial Amino Acid Sequence, cDNA Cloning, and Organization and Expression in Normal and Leukemic Cells. Clark, S. C. et al. (Boston, USA) - p. 2543

#### Science

223 No. 4631 1984

Gene Product of *v-fgr onc*: Hybrid Protein Containing a Portion of Actin and a Tyrosine-Specific Protein Kinase. Naharro, G. et al. (Bethesda, USA) - p. 63

223 No. 4638 1984

A Common *onc* Gene Sequence Transduced by Avian Carcinoma Virus MH2 and by Murine Sarcoma Virus 3611. Kan, N. C. et al. (Frederick, USA) - p. 813

223 No. 4642 1984

Molecular Analysis of *Ds* Controlling Element Mutations at the *Adh 1* Locus of Maize. Sutton, W. D. et al. (Palmerston North, New Zealand) - p. 1265

Total Synthesis and Cloning of a Gene Coding for the Ribonuclease S Protein. Nambiar, K. P. et al. (Cambridge, USA) - p. 1299

#### PRIMARY STRUCTURES OF PROTEINS

##### Biochemical and Biophysical Research Communications

119 No. 1 1984

Neuromedin C: a Bombesin-Like Peptide Identified in Porcine Spinal Cord. Minamino, N. et al. (Miyazaki, Japan) - p. 14

The Structure of a Naturally Occurring 10K Polypeptide Derived from the Amino Terminus of Bovine Thyroglobulin. Rawitch, A. B. et al. (Kansas City, USA) - p. 335

119 No. 2 1984

Rat Atrial Natriuretic Factor: Complete Amino Acid Sequence and Disulfide Linkage Essential for Biological Activity. Misono, K. S. et al. (Nashville, USA) - p. 524

Characterization of the Precursor Form of the Exocellular Levansucrase from *Bacillus subtilis*. Fouet, A. et al. (Paris, France) - p. 795

119 No. 3 1984

Partial Amino Acid Sequence of the Heavy and Light Chains of Botulinum Neurotoxin Type A. Schmidt, J. J. et al. (Frederick, USA) - p. 900

Purification and Complete Amino Acid Sequence of Beta-Rat Atrial Natriuretic Polypeptide ( $\beta$ -rANP) of 5,000 Daltons. Kangawa, K. et al. (Miyazaki, Japan) - p. 933

A DNA-Binding Protein from *E. coli*. Isolation, Characterization and Its Relationship with Proteins H1 and B1. Laine, B. et al. (Lille, France) - p. 1147

120 No. 1 1984

Amino-Terminal Amino Acid Sequence of the Nonspecific Phospholipid Exchange Protein from Bovine Liver. Ronne, H. et al. (Uppsala, Sweden) - p. 232

120 No. 3 1984

Primary Structure of Human Plasma Fibronectin - Characterization of the 6,000 Dalton C-Terminal Fragment Containing the Interchain Disulfide Bridges. Garcia-Pardo, A. et al. (New York, USA) - p. 1015

121 No. 1 1984

Amino Acid Sequence of Rat Epidermal Thiol Proteinase Inhibitor. Tako, K. et al. (Seattle, USA) - p. 149

Complete Amino Acid Sequence of Amelogenin in Developing Bovine Enamel. Takagi, T. et al. (Tokyo, Japan) - p. 592

121 No. 3 1984

The Sequence of an Atriopeptigen: A Precursor of the Bioactive Atrial Peptides. Geller, D. M. et al. (St. Louis, USA) - p. 802

The Amino Terminal Sequences of Boar Sperm Proacrosin and Active Acrosin are Identical. Fridberger, A. et al. (Uppsala, Sweden) - p. 884

##### Biochemical Genetics

22 No. 3/4 1984

Sequence of the High-Activity Equine Erythrocyte Carbonic Anhydrase: N-Terminal Polymorphism (Acetyl-Ser/Acetyl-Thr) and Homologies to Similar Mammalian Isozymes. Jabusch, J. R. and Deutsch, H. F. (Madison, USA) - p. 357

##### The Biochemical Journal

219 No. 2 1984

Complete Amino Acid Sequence of the N-Terminal Extension of Calf Skin Type III Procollagen. Brandt, A. et al. (Martinsried, FRG) - p. 625

220 No. 1 1984

Sequence Comparison of Pepsin-Resistant Segments of Basement-Membrane Collagen  $\alpha 1(V)$  Chains from Bovine Lens Capsule and Mouse Tumour. Schuppan, D. et al. (Martinsried, FRG) - p. 227

##### Biochemistry

23 No. 4 1984

Structure of the Carboxyl Propeptide of Chicken Type II Procollagen Determined by DNA and Protein Sequence Analysis. Ninomiya, Y. et al. (Piscataway, USA) - p. 617

23 No. 6 1984

Amino Acid Sequence of Crayfish (*Astacus fluviatilis*) Carboxypeptidase B. Titani, K. et al. (Seattle, USA) - p. 1245

Lectin from Sainfoin (*Onobrychis vicifolia* Scop.). Complete Amino Acid Sequence. Kouchalakos, R. N. et al. (Bozeman, USA) - p. 1824

Biochemistry International

8 No. 4 1984

The Amino Acid Sequences of Goat, Pig and Wallaby Osteocalcins. Hug, N. L. et al. (Auckland, New Zealand) - p. 521

Biochimica et Biophysica Acta

787 No. 3 1984

Amino-Acid Sequence of Sarcoplasmic Calcium-Binding Protein from Scallop (*Pectinopetea yessoensis*) Adductor Striated Muscle. Takagi, T. et al. (Sendai, Japan) - p. 252

Comparative Biochemistry and Physiology

77B No. 2 1984

A Comparison of the Amino Acid Sequences of Different Classes of Immunoglobulin and Histocompatibility C-Domains from Different Mammalian Species. Correlations Between Conservancy and Three Dimensional Structure. Beale, D. (Cambridge, UK) - p. 399

78B No. 1 1984

Globin Evolution in Some Species of the Genus Bufo. Cardellini, P. et al. (Padova, Italy) - p. 21

EMBO Journal

3 No. 2 1984

Homologies in the Primary Structure of GTP-Binding Proteins: The Nucleotide-Binding Site of EF-Tu and p21. Leberman, R. and Egner, U. (Grenoble, France) - p. 339

3 No. 4 1984

Homologous Sequences in Non-Structural Proteins from Cowpea Mosaic Virus and Picornaviruses. Franssen, H. et al. (Cambridge, UK) - p. 855

3 No. 5 1984

The Primary Structure of Elongation Factor EF-1 $\alpha$  from the Brine Shrimp Artemia. Van Hemmert, F. J. et al. (Leiden, The Netherlands) - p. 1109

3 No. 6 1984

Amino Acid Sequence of the Carboxy-Terminal Part of an Acidic Type I Cytokeratin of Molecular Weight 51 000 from Xenopus laevis Epidermis as Predicted from the cDNA Sequence. Hoffmann, W. and Franz, J. K. (Seattle, USA) - p. 1301

European Journal of Biochemistry

139 No. 2 1984

The Complete Amino Acid Sequence of Ribosomal Proteins L17, L27, and S9 from Bacillus stearothermophilus. Kimura, M. and Chow, C. K. (Berlin, FRG) - p. 225

139 No. 3 1984

The 5S RNA Binding Protein from Yeast (Saccharomyces cerevisiae) Ribosomes. An RNA Binding Sequence in the Carboxyl-Terminal Region. Yaguchi, M. et al. (Ottawa, Canada) - p. 451

Homology Between the Primary Structures of the Major Bovine  $\beta$ -Crystallin Chains. Berbers, G. A. M. et al. (Nijmegen, The Netherlands) - p. 467

The Structure of the B Subunit of Calcineurin. Kitken, A. et al. (London, UK) - p. 663

140 No. 1 1984

Sorbitol Dehydrogenase. The Primary Structure of the Sheep-Liver Enzyme. Jeffery, J. et al. (Aberdeen, UK) - p. 7

140 No. 2 1984

Complete Primary Structure of the Collagen-Binding Domain of Bovine Fibronectin. Skorstengaard, K. et al. (Aarhus, Denmark) - p. 235

141 No. 1 1984

Aldehyde Dehydrogenase from Human Liver. Primary Structure of the Cytoplasmic Isoenzyme. Hempel, J. et al. (Stockholm, Sweden) - p. 21

The Cytoplasmic Isoenzyme of Horse Liver Aldehyde Dehydrogenase. Relationship to the Corresponding Human Isoenzyme. Von Bahr-Lindström, H. et al. (Stockholm, Sweden) - p. 37

Primary Structures of the  $\alpha$ -Crystallin A Chains of Twenty-Eight Mammalian Species. Chicken and Frog. De Jong, W. H. et al. (Nijmegen, The Netherlands) - p. 131

141 No. 2 1984

Rabbit Pepsinogens. Purification, Characterization, Analysis of the Conversion Process to Pepsin and Determination of the NH<sub>2</sub>-Terminal Amino-Acid Sequences. Kageyama, T. and Takahashi, K. (Kyoto, Japan) - p. 261

FEBS Letters

168 No. 2 1984

Amino Acid Sequence of a Novel Kunitz-Type Chymotrypsin Inhibitor from Hemolymph of Silkworm Larvae. Bombyx mori. Sasaki, T. (Aichi, Japan) - p. 227

Isolation of Oxine Pancreatic Icosapeptide: a Peptide Product Containing One Cysteine Residue. Schwartz, T. W. and Hansen, H. F. (Copenhagen, Denmark) - p. 293

169 No. 1 1984

The Amino Acid Sequence of Delta Haemolysin Purified from a Canine Isolate of S. aureus. Fitton, J. E. et al. (Sheffield, UK) - p. 25

169 No. 2 1984

Differences in C-Terminal Amino Acid Sequences Between Erythrocyte and Liver Cytochrome b<sub>5</sub> Isolated from Pig and Human. Evidence for Two Tissue-Specific Forms of Cytochrome b<sub>5</sub>. Kimura, S. et al. (Ibaraki, Japan) - p. 143

Evolution and Structure of Two ADP-Ribosylation Enterotoxins, Escherichia coli Heat-Labile Toxin and Cholera Toxin. Yamamoto, T. et al. (Tokyo, Japan) - p. 241

170 No. 1 1984

The Complete Amino Acid Sequence of Escherichia coli 5-Enopyruvylshikimate 3-Phosphate Synthase. Duncan, K. et al. (Glasgow, UK) - p. 59

Human Apolipoprotein B: Partial Amino Acid Sequence. Le Bouef, R. C. et al. (Los Angeles, USA) - p. 105

Primary Structure of a Regulating Factor, 15kDa Protein, of ATP Synthase in Yeast Mitochondria. Yoshida, Y. et al. (Osaka, Japan) - p. 135

170 No. 2 1984

Primary Sequence Differences Between Chido and Rodgers Variants of Tryptic C4d of the Human Complement System. Hellman, U. et al. (Uppsala, Sweden) - p. 254

171 No. 1 1984

Kringle: Modules Specialized for Protein Binding. Homology of the Gelatin-Binding Region of Fibronectin with the Kringle Structures of Proteases. Patthy, L. et al. (Budapest, Hungary) - p. 131

171 No. 2 1984

Muscle and Liver Pyruvate Kinases are Closely Related: Amino Acid Sequence Comparisons. Hoar, C. G. et al. (Aberdeen, UK) - p. 293

172 No. 1 1984

Atrial Natriuretic Factor: A Precursor for Natriuretic Factor and Cardiotropin. Amino Acid Sequence Evidence. Lazure, C. et al. (Montreal, Canada) - p. 80

172 No. 2 1984

The Isolation and Sequencing of Human Gastric Inhibitory Peptide (GIP). Moody, A. J. et al. (Madrid, Spain) - p. 142

Homology Between the  $\alpha$  and  $\beta$  Subunits of Chloroplast and Bacterial Proton-Translocating ATPase. Deno, H. and Sugiyara, M. (Nagoya, Japan) - p. 209

Hoppe-Seyler's Zeitschrift für Physiologische Chemie

365 No. 3 1984

Studies on Cytochrome c Oxidase. X. Isolation and Amino-Acid Sequence of Polypeptide VIIb. Meinecke, L. et al. (Aachen, FRG) - p. 313

Zur prä- und perinatalen Sauerstoff-Übertragung der Säuger. Die embryonalen Hämoglobine vom Hausschwein (Sus scrofa domesticus). Bieber, F. A. und Braunitzer, G. (Martinsried, FRG) - p. 321

365 No. 4 1984

The Amino-Acid Sequence of  $\alpha^1$ - and  $\beta$ -Chains from the Major Hemoglobin Component of American Flamingo (Phoenicopterus ruber ruber). Godovac-Zimmermann, J. and Braunitzer, G. (Martinsried, FRG) - p. 437

365 No. 5 1984

The Primary Structure of the Hemoglobin of the Mole Rat (Spalax ehrenbergi, Rodentia, Chromosome Species 60). Kleinischmidt, T. et al. (Martinsried, FRG) - p. 531

IgM and Amino-Acid Sequence Determination of Monkey Insulin und Proinsulin. Naithani, V. K. et al. (Aachen, FRG) - p. 571

365 No. 6 1984

Primary Structure, Biochemical and Physiological Aspects of Hemoglobin from South American Lungfish (Lepidoglanis paradoxus, Dipnoi). Rodenwald, K. et al. (Martinsried, FRG) - p. 639

The Journal of Biochemistry

95 No. 2 1984

Complete Amino Acid Sequence of *Scytalidium lignicolum*  
Acid Protease B. Maita, T. et al. (Nagasaki, Japan) - p. 465

95 No. 3 1984

Primary Structures of Adult Hemoglobins of Silvery Marmoset, *Calithrix argenatus*, and Cotton-Headed Tamarin, *Saguinus oedipus*. Maita, T. et al. (Nagasaki, Japan) - p. 805

Amino Acid Sequence Around the Reactive Site of Cucumisin from Melon Fruit. Kaneda, M. et al. (Kagoshima, Japan) - p. 825

95 No. 5 1984

Amino Acid Sequence of Japanese Horseshoe Crab (*Tachypleus tridentatus*) Coagulogen B Chain: Completion of the Coagulogen Sequence. Takagi, T. et al. (Osaka, Japan) - p. 1445

*Spirulina* Ferredoxin-NADP<sup>+</sup> Reductase. The Complete Amino Acid Sequence. Yao, Y. et al. (Osaka, Japan) - p. 1513

95 No. 6 1984

Amino Acid Sequence of a Chain of Sarcoplasmic Calcium Binding Protein Obtained from Shrimp Tail Muscle. Takagi, T. and Konishi, K. (Sendai, Japan) - p. 1603

*Tetrahymena* Histone H3. Purification and Two Variant Sequences. Hayashi, T. et al. (Gunma, Japan) - p. 1741

The Amino Acid Sequence of Coagulogen Isolated from Southeast Asian Horseshoe Crab, *Tachypleus gigas*. Miyata, T. et al. (Fukuoka, Japan) - p. 1793

The Journal of Biological Chemistry

259 No. 9 1984

Bilin Attachment Sites in the  $\alpha$  and  $\beta$  Subunits of B-Phycerythrin. Amino Acid Sequence Studies. Lundell, D. J. et al. (Berkeley, USA) - p. 5472

Synthesis, Intracellular Processing, and Signal Peptide of Human Apolipoprotein E. Zannis, V. I. et al. (Boston, USA) - p. 5495

259 No. 10 1984

Verification of Protein Sequence by Fast Atom Bombardment Mass Spectrometry. Amino Acid Sequence of Protein S, a Development-Specific Protein of *Myxococcus xanthus*. Takao, T. et al. (Suita, Japan) - p. 6105

The Nuclear-Coded Subunits of Yeast Cytochrome c Oxidase. II. The Amino Acid Sequence of Subunit VIII and a Model for Its Disposition in the Inner Mitochondrial Membrane. Power, S. D. et al. (Boulder, USA) - p. 6571

259 No. 11 1984

Natural Human Interferon- $\gamma$ . Complete Amino Acid Sequence and Determination of Sites of Glycosylation. Rinderknecht, E. et al. (San Francisco, USA) - p. 6790

The Journal of Immunology

132 No. 3 1984

Amino Acid Sequence of a Phosphocholine-Binding Antibody from an Immune Defective CBA/N Mouse Employing the T15 VH Region Associated with Unusual DH JH and VK Segments. Clarke, S. H. et al. (Bethesda, USA) - p. 1544

132 No. 6 1984

Amino- and Carboxy-Terminal Sequence of Mouse J Chain and Analysis of Tryptic Peptides. Elliott, B. W. and Steinher, L. A. (Cambridge, USA) - p. 2968

133 No. 1 1984

Amino Acid and Nucleotide Sequences of Variable Regions of Mouse Immunoglobulin Light Chains of the  $\lambda$  3-Subtype. Reilly, E. B. et al. (Cambridge, USA) - p. 471

Nature

308 No. 5961 1984

Sequence and Topology of a Model Intracellular Membrane Protein, El Glycoprotein, from a Coronavirus. Armstrong, J. et al. (Heidelberg, FRG) - p. 751

310 No. 5972 1984

Fly and Frog Homeo Domains Show Homologies with Yeast Mating Type Regulatory Proteins. Shepherd, J. C. W. et al. (Basel, Switzerland) - p. 70

Nucleic Acids Research

12 No. 10 1984

The Amino-Acid Sequence of Two Non-Toxic Mutants of Diphtheria Toxin: CRM45 and CRM197. Giannini, G. et al. (Siena, Italy) - p. 4063

Philosophical Transactions of the Royal Society of London

304B No. 1120 1984

The Structural and Evolutionary Relationships of the Prolam Storage Proteins of Barley, Rye and Wheat. Shewry, P. R. et al. (Harpenden, UK) - p. 297

Phytochemistry

23 No. 4 1984

Amino Acid Sequence of a Ferredoxin from *Rhodymenia palmata* a Red Alga in the Florideophyceae. Inoue, K. et al. (Osaka, Japan) - p. 773

Proceedings of the National Academy of Sciences of the USA

81 No. 2 1984

Single-Chain Structure of Human Ceruloplasmin: The Complete Amino Acid Sequence of the Whole Molecule. Takahashi, N. et al. (Bloomington, USA) - p. 390

81 No. 3 1984

Primary Structure of an Amyloid Prealbumin and Its Plasma Precursor in a Heredofamilial Polyneuropathy of Swedish Origin. Dwijiet, F. E. and Benson, M. D. (Indianapolis, USA) - p. 694

Major Coat Protein and Single-Stranded DNA-Binding Protein of Filamentous Virus Pf3. Putterman, D. G. et al. (New York, USA) - p. 699

The Membrane Glycoprotein Encoded by the Retroviral Onco-gene v-erb-B is Structurally Related to Tyrosine-Specific Protein Kinases. Privalsky, M. L. et al. (San Francisco, USA) - p. 704

Human Pancreatic Icosapeptide: Isolation, Sequence, and Immunocytochemical Localization of the COOH-Terminal Fragment of the Pancreatic Polypeptide Precursor. Schwartz, T. W. et al. (Copenhagen, Denmark) - p. 708

81 No. 4 1984

Prothymosin  $\alpha$ : Isolation and Properties of the Major Immunoreactive Form of Thymosin  $\alpha_1$  in Rat Thymus. Haritos, A. A. et al. (Nutley, USA) - p. 1008

Amino Acid Sequence Homology Among the Major Outer Membrane Proteins of *Escherichia coli*. Nikaido, H. and Wu, H. C. P. (Berkeley, USA) - p. 1048

81 No. 6 1984

Camphor Hydroxylase of *Pseudomonas putida*: Vestiges of Sequence Homology in Cytochrome P-450<sup>CAM'</sup> Putidaredoxin and Related Proteins. Das, K. M. (St. Louis, USA) - p. 1664

81 No. 7 1984

Structure of Human Hemopexin: O-Glycosyl and N-Glycosyl Sites and Unusual Clustering of Tryptophan Residues. Takahashi, N. et al. (Bloomington, USA) - p. 2021

Somatic Diversification of Immunoglobulins. Rudikoff, S. et al. (Bethesda, USA) - p. 2162

Compiled by L. Träger