

## Recently Published Papers in the Field of Molecular Evolution

### GENERAL ASPECTS

#### Archives of Microbiology

143 No. 2 1985

Evolutionary Implications of Features of Aromatic Amino Acid Biosynthesis in the Genus *Acinetobacter*. Byng, G.S. et al. (Elkhart, USA) - p. 122 [522]

#### Bio Systems

17 No. 4 1985

Proteinoid Microspheres More Stable in Hot Than in Cold Water. Syren, R.M. et al. (Coral Gables, USA)-p.275[523]  
Conformational Relationships Between Amino Acids and Their Anticodons in the Primitive Decoding System. Balasubramanian, R. and Raghunathan, G. (Madras, India) - p. 289 [524]

18 No. 3/4 1985

An Evaluation of Tubulin as a Molecular Clock. Little, M. (Heidelberg, FRG) - p. 241 [525]

Histones in Protistan Evolution. Rizzo, P.J. (College Station, USA) - p. 249 [526]

Probing Fungal Mitochondrial Evolution with tRNA. Cedergren, R. and Lang, B.F. (Montreal, Canada)-p.263 [527]

5S and 5.8 S Ribosomal RNA Sequences and Protist Phylogenetics. Walker, W.F. (Halifax, Canada)-p.269 [528]

Chloroplast DNA Variation in *Chlamydomonas* and Its Potential Application to the Systematics of this Genus. Lemieux, B. et al. (Quebec City, Canada) - p. 293 [529]

Chloroplast Biosystematics: Chloroplast DNA as a Molecular Probe. Cattolico, R.A. (Seattle, USA) - p. 299 [530]

Molecular Organization of Dinoflagellate Ribosomal DNA: Evolutionary Implications of the Deduced 5.8S rRNA Secondary Structure. Maroteaux, L. et al. (Banyuls-sur Mer, France) - p. 307 [531]

A Molecular Approach to the Phylogeny of *Acanthamoeba*. Daggett, P.-M. et al. (Rockville, USA) - p. 399 [532]

#### Bulletin of Mathematical Biology

47 No. 4 1985

Sequence Similarity ('Homology') Searching for Molecular Biologists. Davison, D. (Houston, USA) - p. 437 [533]

#### International Journal of Peptide and Protein Research

26 No. 2 1985

Models of Molecular Evolution. 2. Stereospecificity of Dipeptide Syntheses by Means of Cyanamides and Carbodiimides. Kricheldorf, H.R. et al. (Hamburg, FRG)-p.149[534]

#### Journal of Theoretical Biology

115 No. 4 1985

Genetic Coding Catalysis. Lacey, J.C. (Birmingham, USA) - p. 595 [535]

116 No. 3 1985

Genetic Code Redundancy and the Evolutionary Stability of Protein Secondary Structure. Dufton, M.J. (Glasgow, UK) - p. 343 [536]

117 No. 2 1985

Mutations, Mixed Strategies and Game Theory. Rowe, G.W. (Dundee, UK) - p. 291 [537]

118 No. 1 1986

Fluctuations and Mutation in Hypercyclic Organization. Ishida, K. (Ibaraki, Japan) - p. 3 [538]

### Molecular Biology and Evolution

3 No. 1 1986

Charge Changes in Protein Evolution. Peetz, E.W. et al., (Berkeley, USA) - p. 84 [539]

### Nature

319 No. 6053 1986

Evolutionary Relationships of Human Populations from an Analysis of Nuclear DNA Polymorphisms. Wainscoat, J.S. et al. (Oxford, UK) - p. 491 [540]

### Origins of Life

15 No. 3 1985

A Possible Energetic Role of Mineral Surfaces in Chemical Evolution. Coyne, L.M. (Moffett Field, USA) - p. 161 [541]

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

83 No. 2 1986

Evidence Against Use of Bacterial Amino Acid Sequence Data for Construction of All-Inclusive Phylogenetic Trees. Meyer, T.E. et al. (Tucson, USA) - p. 217 [542]

83 No. 3 1986

Determinator-Inhibitor Pairs as a Mechanism for Threshold Setting in Development: A Possible Function for Pseudogenes. McCarrey, J.R. and Riggs, A.D. (Dartmouth, USA) - p. 679 [543]

Rates of Nuclear DNA Evolution in Pheasant-Like Birds: Evidence from Restriction Maps. Helm-Bychowski, K.M. and Wilson, A.C. (Berkeley, USA) - p. 688 [544]

### Proceedings of the Royal Society of London

226B No. 1244 1985

Evolutionary Trees from Nucleic Acid and Protein Sequences. Bishop, M.J. and Friday, A.E. (Cambridge, UK) - p. 271[545]

### PRIMARY STRUCTURES OF

### NUCLEIC ACIDS

#### Biochemical and Biophysical Research Communications

132 No. 2 1985

Molecular Cloning and Nucleotide Sequence of Human Pancreatic Secretory Trypsin Inhibitor (PSTI) cDNA. Yamamoto, T. et al. (Suita, Japan) - p. 605 [546]

133 No. 1 1985

Aromatic Amino Acid Aminotransferase of *Escherichia coli*: Nucleotide Sequence of the *tyrB* Gene. Kuramitsu, S. et al. (Osaka, Japan) - p. 134 [547]

133 No. 2 1985

Deoxynucleotide Sequence of an Insect cDNA Codes for an Unreported Member of the *Chironomus thummi* Globin Family. Saffarini, D.A. et al. (Milwaukee, USA) - p. 641 [548]

134 No. 1 1986

Nucleotide Sequence of Chick 14K  $\beta$ -Galactoside-Binding Lectin mRNA. Ohyama, Y. et al. (Kanagawa, Japan)-p.51[549]

134 No. 2 1986

Isolation and Characterization of a Novel Cytochrome P-450-Like Pseudogene. Zaphiropoulos, P.G. et al. (Ann Arbor, USA) - p. 499 [550]

Molecular Cloning of the Sphingolipid Activator Protein-1 (SAP-1), the Sulfatide Sulfatase Activator. Dewji, N. et al. (La Jolla, USA) - p. 989 [551]

134 No. 3 1986

Extended Secondary Structure in 5S rRNAs from a Sulphur Metabolizing Archaeobacterium, *Thermococcus caler*. McDougall, J. and Nazar, R.N. (Guelph, Canada) - p. 1167 [552]

#### Biochemistry International

11 No. 5 1985

Serine-Specific tRNAs in *Escherichia coli*: Relative Abundance and Sequence. Fischer, W. and Sprinzl, M. (Bayreuth, FRG) - p. 661 [553]

#### Biochimica et Biophysica Acta

826 No. 2/3 1985

P31, a Mammalian Housekeeping Protein Encoded by a Multi-gene Family Containing a High Proportion of Pseudogenes. Theodor, L. et al. (Jerusalem, Israel) - p. 137 [554]

826 No. 4 1985

Comparison of the 5' Regions of Human and Mouse Carbonic Anhydrase II Genes and Identification of Possible Regulatory Elements. Venta, P.J. et al. (Ann Arbor, USA) - p. 195 [555]

866 No. 1 1986

Immunological Identification of Rat Tissue Kallikrein cDNA and Characterization of the Kallikrein Gene Family. Gerald, W.L. et al. (Charleston, USA) - p. 1 [556]

Sequence of the cDNA Encoding Porcine Pro-Opiomelanocortin. Gossard, F.J. et al. (Stanford, USA) - p. 68 [557]

The Nucleotide Sequence of 4.5S rRNA from Tomato Chloroplasts. Zhen-Qi, C. et al. (Beijing, China) - p. 89 [558]

**Biochimie**

67 No. 9 1985

Construction and Identification of Recombinant Plasmids Carrying cDNAs Coding for Ovine  $\alpha_{s1}$ -,  $\alpha_{s2}$ -,  $\beta$ -,  $\kappa$ -Casein and  $\beta$ -Lactoglobulin. Nucleotide Sequences of  $\alpha_{s1}$ -Casein cDNA. Mercier, J.-C. et al. (Jouy en Josas, France) - p. 959 [559]

Complete Sequence of Ovine  $\alpha_{s2}$ -Casein Messenger RNA. Boissard, M. and Petrisant, G. (Jouy de Josas, France) - p. 1043 [560]

**Cell**

43 No. 3 1985

Nucleotide Sequence from the Neurogenic Locus Notch Implies a Gene Product that Shares Homology with Proteins Containing EGF-Like Repeats. Wharton, K.A. et al. (New Haven, USA) - p. 567 [561]

lin-2, A Nematode Homeotic Gene, is Homologous to a Set of Mammalian Proteins that Includes Epidermal Growth Factor. Greenwald, I. (Cambridge, UK) - p. 583 [562]

44 No. 1 1986

Gene Within a Gene: Nested Drosophila Genes Encode Unrelated Proteins On Opposite DNA Strands. Henikoff, S. et al. (Seattle, USA) - p. 33 [563]

The Repertoire of Silent Pilus Genes in *Neisseria gonorrhoeae*: Evidence for Gene Conversion. Haas, R. and Meyer, T.F. (Tübingen, FRG) - p. 107 [564]

**Current Genetics**

10 No. 1 1985

The Gene for Yeast Ribosomal Protein S31 Contains an Intron in the Leader Sequence. Nieuwint, R.T.M. et al. (Amsterdam, NL) - p. 1 [565]

**DNA**

4 No. 5 1985

Characterization of the Polypeptide Composition of Human Factor VIIIc and the Nucleotide Sequence and Expression of the Human Kidney cDNA. Truett, M.A. et al. (Emeryville, USA) - p. 333 [566]

Nucleotide Sequence of the Partition Function of *Escherichia coli* Plasmid ColE1. Leung, D.W. et al. (San Francisco, USA) - p. 351 [567]

**The EMBO Journal**

5 No. 1 1986

The URF 5 Gene of *Chlamydomonas reinhardtii* Mitochondria: DNA Sequence and Mode of Transcription. Boer, P.H. and Gray, M.W. (Halifax, Canada) - p. 21 [568]

5 No. 2 1986

A Sixth Subunit of ATP Synthase, an F<sub>0</sub> Component, is Encoded in the Pea Chloroplast Genome. Cozens, A.L. et al. (Cambridge, UK) - p. 217 [569]

The Organisation and Interviral Homologies of Genes at the 3' end of Tobacco Rattle Virus RNA1. Boccara, M. et al. (Cambridge, UK) - p. 223 [570]

Identification of a Provirally Activated c-Ha-ras Oncogene in an Avian Nephroblastoma Via a Novel Procedure: cDNA Cloning of a Chimaeric Viral-Host Transcript. Westaway, D. et al. (San Francisco, USA) - p. 301 [571]

Characterization, Cloning and Sequence Analysis of the CDC25 Gene which Controls the Cyclic AMP Level of *Saccharomyces cerevisiae*. Camonis, J.H. et al. (Orsay, France) - p. 375 [572]

Sequence and Domain Relationships of ntrC and nifA from *Klebsiella pneumoniae*: Homologies to Other Regulatory Proteins. Drummond, M. et al. (Brighton, UK) - p. 441 [573]

**European Journal of Biochemistry**

154 No. 2 1986

Complete Nucleotide Sequence and Genome Organization of a *Drosophila* Transposable Genetic Element, 297. Inouye, S. et al. (Fukuoka, Japan) - p. 417 [574]

154 No. 3 1986

Nucleotide Sequence of Cloned cDNA Specific for Rat Ribosomal Protein L35a. Tanaka, T. et al. (Yamagata, Japan) - p. 523 [575]

Nucleotide Sequence and Transcription of the *fbc* Operon from *Rhodospseudomonas sphaeroides*. Evaluation of the Deduced Amino Acid Sequences of the FeS Protein, Cytochrome b and Cytochrome c<sub>1</sub>. Gabellini, N. and Sebald, W. (Braunschweig, FRG) - p. 569 [576]

**FEBS Letters**

196 No. 1 1986

Complete Characterization of the Human IGF-I Nucleotide Sequence Isolated from a Newly Constructed Adult Liver cDNA Library. Le Bouc, Y. et al. (Paris, France) - p. 108 [577]

Full-Length Sequence and Expression of the 42 kDa 2-5A Synthetase Induced by Human Interferon. Wathelet, M. et al. (Rhode-St-Genese, Belgium) - p. 113 [578]

196 No. 2 1986

Primary Structure of the  $\beta$ -Subunit of *Torpedo californica* (Na<sup>+</sup> + K<sup>+</sup>)-ATPase Deduced from the cDNA Sequence. Noguchi, S. et al. (Kyoto, Japan) - p. 315 [579]

197 No. 1/2 1986

Sequence Analysis of *Citrus limon* DNA Coding for 26S rRNA. Evidence of Heterogeneity in the 3' Region. Kolosha, V.O. et al. (Pushchino, USSR) - p. 89 [580]

Primary Structure of the  $\alpha$ -Subunit of Bovine Adenylate Cyclase-Inhibiting G-Protein Deduced from the cDNA Sequence. Nukada, T. et al. (Kyoto, Japan) - p. 305 [581]

The Nucleotide Sequences of the Heterologous Region Between the Genomes of *Bacillus* Phages M2 and Nf that Indicate the Two Phages are Originally Identical. Mizukami, Y. et al. (Tokyo, Japan) - p. 311 [582]

**Gene**

39 No. 1 1985

Rat Aldolase A Messenger RNA: The Nucleotide Sequence and Multiple mRNA Species with Different 5' Terminal Regions. Joh, K. et al. (Saga, Japan) - p. 17 [583]

Complete Nucleotide Sequence of the Hexokinase P1 Gene (HXK1) of *Saccharomyces cerevisiae*. Kopetzki, E. et al. (Tübingen, FRG) - p. 95 [584]

39 No. 2/3 1985

Nucleotide Sequence of the Central Non-Transcribed Spacer Region of *Physarum polycephalum* rDNA. Ferris, P.J. (St. Louis, USA) - p. 203 [585]

Expression of a Rat Brain Creatine Kinase- $\beta$ -Glactosidase Fusion Protein in *Escherichia coli* and Derivation of the Complete Amino Acid Sequence of Rat Brain Creatine Kinase. Benfield, P.A. et al. (Wilmington, USA) - p. 263 [586]

Structure of a Duck H3 Variant Histone Gene: a H3 Subtype with Four Cysteine Residues. Tonjes, R. and Doenecke, D. (Marburg, FRG) - p. 275 [587]

Nucleotide Sequence of a cDNA Clone for Mouse Pro $\alpha$ 1(I) Collagen Protein. French, B.T. et al. (Philadelphia, USA) - p. 311 [588]

40 No. 1 1985

Nucleotide Sequence of the *rpsU-dnaG-rpoD* Operon from *Salmonella typhimurium* and a Comparison of this Sequence with the Homologous Operon of *Escherichia coli*. Erickson, B.D. et al. (Madison, USA) - p. 67 [589]

Structure and Expression of  $\kappa$ -Chain Genes in Two IgE-Producing Rat Immunocytomas. Hellman, L. et al. (Uppsala, Sweden) - p. 107 [590]

Cloning and Sequence Analysis of Porcine Myoglobin cDNA. Akaboshi, E. (Osaka, Japan) - p. 137 [591]

**Immunogenetics**

22 No. 6 1985

DNA Sequence Analysis of a Rat RT1 Class II A Gene. Eccles, S.J. and McMaster, W.R. (Vancouver, Canada) - p. 653 [592]

**The Japanese Journal of Genetics**

60 No. 5 1985

New Shuttle Vectors for *Escherichia coli* and *Bacillus subtilis*. III. Nucleotide Sequence Analysis of Tetracycline Resistance Gene of pAM1 and ori-177. Ishiwa, H. and Shibahara, H. (Tokyo, Japan) - p. 485 [593]

The Journal of Antibiotics

38 No. 12 1985

Nucleotide Sequence of Mec<sup>+</sup> Gene Region of *Streptomyces kasugaensis*. Hirasawa, K. et al. (Tokyo, Japan)-p.1795[594]

The Journal of Biochemistry

98 No. 4 1985

Nucleotide Sequence of the *pldB* Gene and Characteristics of Deduced Amino Acid Sequence of Lysophospholipase L<sub>2</sub> in *Escherichia coli*. Kobayashi, T. et al. (Tokyo, Japan) - p. 1017 [595]

98 No. 5 1985

Complete Nucleotide Sequence of a Gene Coding for Heat- and pH-Stable  $\alpha$ -Amylase of *Bacillus licheniformis*: Comparison of the Amino Acid Sequences of Three Bacterial Liquefying  $\alpha$ -Amylases Deduced from the DNA Sequences. Yuuki, T. et al. (Aichi, Japan) - p. 1147 [596]

99 No. 2 1986

Primary Structures of the ColE2-P9 and ColE3-CA38 Lysis Genes. Toba, M. et al. (Tokyo, Japan) - p. 591 [597]

The Journal of Biological Chemistry

260 No. 30 1985

The Primary Structure of the Precursor of Chicken Mitochondrial Aspartate Aminotransferase. Cloning and Sequence Analysis of cDNA. Jaussi, R. et al. (Zürich, CH) - p. 16060 [598]

The *Euglena gracilis* Chloroplast Ribulose-1,5-bisphosphate Carboxylase Gene. I. Complete DNA Sequence and Analysis of the Nine Intervening Sequences. Gingrich, J.C. and Hallick, R.B. (Boulder, USA) - p. 16156 [599]

The *Euglena gracilis* Chloroplast Ribulose-1,5-bisphosphate Carboxylase Gene. II. The Spliced mRNA and Its Product. Gingrich, J.C. and Hallick, R.B. (Boulder, USA)-p.16162[600]

Nucleotide Sequence Analysis of Zein mRNAs from Maize Endosperm. Marks, M.D. et al. (West Lafayette, USA)-p.16451[601]

Journal of Biosciences

8 No. 3/4 1985

Similarities in the Genomic Sequence and Coat Protein Structure of Plant Viruses. Murthy, M.R.N. and Savithri, H.S. (Karnataka, India) - p. 815 [602]

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29 No. 3 1985

Structure and Chromosomal Localization of the Human Lymphotoxin Gene. Nedwin, G.E. et al. (West Haven, USA) - p. 171 [603]

The Journal of General Microbiology

131 Part 10 1985

16S Ribosomal RNA Analysis of *Filibacter limicola* Indicates a Close Relationship to the Genus *Bacillus*. Clausen, V. et al. (Kiel, FRG) - p. 2659 [604]

131 Part 12 1985

Nucleotide Sequence of the  $\beta$ -Lactamase Gene of Alkalophilic *Bacillus* sp. Strain 170. Kato, C. et al. (Saitama, Japan) - p. 3317 [605]

The Journal of General Virology

66 Part 10 1985

Sequencing of Coronavirus IBV Genomic RNA - 3 Open Reading Frames in the 5' Unique Region of Messenger RNA-D. Boursnell, M.E.G. et al. (Huntingdon, UK) - p. 2253 [606]

67 Part 2 1986

Cloning and Sequencing of 5' Terminal Sequences from Avian Infectious Bronchitis Virus Genomic RNA. Brown, T.D.K. et al. (Huntingdon, UK) - p. 221 [607]

The Journal of Immunology

135 No. 4 1985

Molecular Cloning and DNA Sequence Analysis of Genes Encoding Cytotoxic T Lymphocyte-Defined HLA-A3 Subtypes: The E1 Subtype. Cowan, E.P. et al. (Bethesda, USA) - p. 2835 [608]

Journal of Molecular Biology

186 No. 4 1985

Structure-Function Relationship in Allosteric Aspartate Carbamoyltransferase from *Escherichia coli*. I. Primary Structure of a *pyrI* Gene Encoding a Modified Regulatory Subunit. Cunin, R. et al. (Brussels, Belgium)-p.707[609]

187 No. 2 1986

Sequence Relationships of Three Human Satellite DNAs. Prosser, J. et al. (Camperdown, Australia) - p. 145 [610]

Conservation Throughout Mammalia and Extensive Protein-Encoding Capacity of the Highly Repeated DNA Long Interspersed Sequence One. Burton, F.H. et al. (Chapel Hill, USA) - p. 291 [611]

187 No. 3 1986

Partial Nucleotide Sequence of the Murray Valley Encephalitis Virus Genome. Comparison of the Encoded Polypeptides with Yellow Fever Virus Structural and Non-Structural Proteins. Dalgarno, L. et al. (Canberra, Australia) - p. 309 [612]

Structure and Evolution of the Apolipoprotein Multigene Family. Luo, C.-C. et al. (Houston, USA) - p. 325 [613]

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17 No. 3 1985

Nucleotide Sequence of the 5S Ribosomal RNA Gene Repeat of *Trypanosoma brucei*. Cordingley, J.S. (Boston, USA) - p. 321 [614]

Molecular Biology and Evolution

3 No. 1 1986

A Comparison of the Small Ribosomal RNA Genes from the Mitochondrial DNA of the Great Apes and Humans: Sequence, Structure, Evolution, and Phylogenetic Implications. Hixson, J.E. and Brown, W.M. (Ann Arbor, USA) - p.1[615]

The Heterochromatin of Grasshoppers from the *Caledia captiva* Species Complex. I. Sequence Evolution and Conservation in a Highly Repeated DNA Family. Arnold, M.L. et al. (Canberra, Australia) - p. 29 [616]

Evolutionary History of the Hybridogenetic Hybrid Frog *Rana esculenta* as Deduced from mtDNA Analyses. Spolsky, C. and Uzzell, T. (Urbana, USA) - p. 44 [617]

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10 No. 4 1985

Evolution of the Single Copy  $\alpha$ A-Crystallin Gene: Differently Sized mRNAs of Mammals and Birds Show Homology in Their 3' Non-Coding Regions. Dodemont, H.J. et al. (Nijmegen, NL) - p. 187 [618]

11 No. 1 1986

Cloning and Structure of a Mouse Interleukin-2 Chromosomal Gene. Degraeve, W. et al. (Ghent, Belgium) - p. 57 [619]

Nature

319 No. 6051 1986

Structural Homology of the Product of the *Drosophila Kruppel* Gene with *Xenopus* Transcription Factor IIIA. Rosenberg, U.B. et al. (Tübingen, FRG) - p. 336 [620]

319 No. 6052 1986

Isolation of a cDNA Clone Coding for a Possible Neural Nicotinic Acetylcholine Receptor  $\alpha$ -Subunit. Boulter, J. et al. (San Diego, USA) - p. 368 [621]

Molecular Cloning and Expression of cDNA for Human Granulocyte Colony-Stimulating Factor. Nagata, S. et al. (Tokyo, Japan) - p. 415 [622]

An *Agrobacterium* Transformation in the Evolution of the Genus *Nicotiana*. Furner, I.J. et al. (Seattle, USA) - p.422 [623]

319 No. 6054 1986

Nucleotide Sequence of Chicken c-*myb* Complementary DNA and Implications for *myb* Oncogene Activation. Rosson, D. and Reddy, E.P. (Nutley, USA) - p. 604 [624]

319 No. 6055 1986

Cloning of cDNA Encoding the Murine IgG1 Induction Factor by a Novel Strategy Using SP6 Promoter. Noma, Y. et al. (Kyoto, Japan) - p. 640 [625]

Expression of a New Tyrosine Protein Kinase is Stimulated by Retrovirus Promoter Insertion. Voronova, A.F. and Sefton, B.M. (San Diego, USA) - p. 682 [626]

Yeast Plasma Membrane ATPase is Essential for Growth and Has Homology with (Na<sup>+</sup> + K<sup>+</sup>), K<sup>+</sup>- and Ca<sup>++</sup>-ATPases. Serrano, R. et al. (Cambridge, USA) - p. 689 [627]

319 No. 6056 1986

A Human Oncogene Formed by the Fusion of Truncated Tropomyosin and Protein Tyrosine Kinase Sequences. Martin-Zanca, D. et al. (Frederick, USA) - p. 743 [628]

320 No. 6057 1986

Cloning and Expression of Human Lipocortin, a Phospholipase A<sub>2</sub> Inhibitor with Potential Anti-Inflammatory Activity. Wallner, B.P. et al. (Cambridge, USA) - p. 77 [629]

320 No. 6058 1986

Human Oestrogen Receptor cDNA: Sequence, Expression and Homology to v-erb-A. Green, S. et al. (Strasbourg, France) - p. 134 [630]

Product of *per* Locus of *Drosophila* Shares Homology with Proteoglycans. Jackson, F.R. et al. (New York, USA) - p.185 [631]

Existence of Distinct Sodium Channel Messenger RNAs in Rat Brain. Noda, M. et al. (Kyoto, Japan) - p. 188 [632]

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312B No. 1154 1986

The Evolution of DNA Sequences in *Escherichia coli*. Hartl, D.L. et al. (St. Louis, USA) - p. 191 [633]

Repetitive DNA and Chromosome Evolution in Plants. Flavell, R.B. (Cambridge, UK) - p. 227 [634]

Mechanisms of DNA Sequence Amplification and Their Evolutionary Consequences. Bostock, C.J. (Edinburgh, UK) - p. 261 [635]

Conservation and Divergence in Multigene Families: Alternatives to Selection and Drift. Dover, G.A. and Tautz, D. (Cambridge, UK) - p. 275 [636]

The Estimate of Total Nucleotide Substitutions from Pairwise Differences is Biased. Fitch, W.M. (Madison, USA) - p. 317 [637]

Mitochondrial DNA and the Evolutionary Genetics of Higher Animals. Avise, J.C. (Athens, USA) - p. 325 [638]

DNA and the Neutral Theory. Kimura, M. (Shizuoka, Japan) - p. 343 [639]

#### Plant Molecular Biology

5 No. 6 1985

Leghemoglobin-Like Sequences in the DNA of Four Actinorhizal Plants. Roberts, M.P. et al. (Knoxville, USA) - p. 333 [640]

Sequences of Two Bean Mitochondrial tRNAs<sup>Tyr</sup> which Differ in the Level of Post-Transcriptional Modification and Have a Prokaryotic-Like Large Extra-Loop. Marechal, L. et al. (Strasbourg, France) - p. 347 [641]

6 No. 1 1986

Nucleotide Sequences of Transfer RNA Genes in the *Pisum sativum* Chloroplast DNA. Shapiro, D.R. and Tewari, K.K. (Irvine, USA) - p. 1 [642]

6 No. 3 1986

Isolation and Characterization of cDNAs Encoding oat 12S Globulin mRNAs. Walburg, G. and Larkins, B.A. (St. Louis, USA) - p. 161 [643]

DNA Sequences of Tobacco Chloroplast Genes for tRNA<sup>Ser</sup> (GGA), tRNA<sup>Trp</sup> (UGU), tRNA<sup>Leu</sup> (UAA), tRNA<sup>Pro</sup> (GAA): the tRNA<sup>Leu</sup> Gene Contains a 503 bp Intron. Yamada, K. et al. (Tokyo, Japan) - p. 193 [644]

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14 No. 3 1985

The Nucleotide Sequences of the Replication Origins of Plasmids ColA and ColD. Zverev, V.V. and Khmel, I.A. (Moscow, USSR) - p. 192 [645]

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82 No. 23 1985

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A Muscle-Typ Tropomyosin in Human Fibroblasts: Evidence for Expression by an Alternative RNA Splicing Mechanism. MacLeod, A.R. et al. (Cambridge, UK) - p. 7835 [647]

Cloning and Expression of cDNA for Rat Heme Oxygenase. Shibahara, S. et al. (Sendai, Japan) - p. 7865 [648]

A Unique Structure at the Carboxyl Terminus of the Largest Subunit of Eukaryotic RNA Polymerase II. Corden, J.L. et al. (Baltimore, USA) - p. 7934 [649]

Sequence and Mapping Analyses of the Herpes Simplex Virus DNA Polymerase Gene Predict a C-Terminal Substrate Binding Domain. Gibbs, J.S. et al. (Boston, USA) - p. 7969 [650]

Structure, Evolution, and Regulation of a Fast Skeletal Muscle Troponin I Gene. Baldwin, A.S. et al. (Charlottesville, USA) - p. 8080 [651]

Evolution of Apolipoprotein E: Mouse Sequence and Evidence for an 11-Nucleotide Ancestral Unit. Rajavashisth, T.B. et al. (Los Angeles, USA) - p. 8085 [652]

DNA Methylation at Asymmetric Sites is Associated with Numerous Transition Mutations. Selker, E.U. and Stevens, J.N. (Madison, USA) - p. 8114 [653]

82 No. 24 1985

Human Apolipoprotein B-100: Cloning, Analysis of Liver mRNA, and Assignment of the Gene to Chromosome 2. Law, S.W. et al. (Bethesda, USA) - p. 8340 [654]

Complete Nucleotide Sequence of Dog Heart Creatine Kinase mRNA: Conservation of Amino Acid Sequence Within and Among Species. Roman, D. et al. (St. Louis, USA) - p. 8394 [655]

Sequence-Directed Mutagenesis: Evidence from a Phylogenetic History of Human  $\alpha$ -Interferon Genes. Golding, G.B. and Glickman, B.W. (Toronto, Canada) - p. 8577 [656]

Organization and Sequences of the Diversity, Joining, and Constant Region Genes of the Human T-Cell Receptor  $\beta$  Chain. Toyonaga, B. et al. (Toronto, Canada) - p. 8624 [657]

Cloning, Sequencing, and Chromosomal Localization of Human Term Placental Alkaline Phosphatase cDNA. Kam, W. et al. (San Francisco, USA) - p. 8715 [658]

83 No. 1 1986

Two Prohormones for Gastrin-Releasing Peptide are Encoded by Two mRNAs Differing by 19 Nucleotides. Spindel, E.R. et al. (Boston, USA) - p. 19 [659]

Two Insulin-Like Growth Factor I Messenger RNAs are Expressed in Human Liver. Rotwein, P. (St. Louis, USA) - p. 77 [660]

Origin and Evolution of the Transcribed Repeated Sequences of the Y Chromosome Lampbrush Loops of *Drosophila hydei*. Hareven, D. et al. (Haifa, Israel) - p. 125 [661]

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