Recently Published Papers in the Field of Molecular Evolution

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GENERAL ASPECTS

Journal of Theoretical Biology

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Phylogenetic Trees Constructed from Hydrophobicity Values of Protein Sequences. Leunissen, J.A.M. and DeJong, W.W. (Nijmegen, NL) - p. 189 [771]

The Classification of Amino Acid Conservation. Taylor, W.R. (London, UK) - p. 205 [772]

Molecular Biology and Evolution

3 No. 3 1986

Temporal Scaling of Molecular Evolution in Primates and Other Mammals. Gingerich, P.D. (Ann Arbor,USA)-p.205[773] Mammalian Phylogeny: Comparison of Morphological and Molecular Results. Shoshani, J. (Detroit, USA) - p. 222 [774]

Nature

321 No. 6067 1986

Phylogenetic Distribution of <u>Antennapedia</u>-Like Homoeo Boxes, Holland, P.W.H. and Hogan, B.L.M. (London, UK) - p. 251 (775)

Origins of Life

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Trace Elements in Chemical Evolution. I. Kobayashi,K. and Ponnamperuma, C. (College Park, USA) - p. 41 [776] Trace Elements in Chemical Evolution. II. Synthesis of Amino Acids Under Simulated Primitive Earth Conditions in the Presence of Trace Elements. Kobayashi, K. and Ponnamperuma, C. (College Park, USA) - p. 57 [777]

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RNA Catalysis and the Origin of Life. Pace, N.R. and Marsh, T.L. (Bloomington, USA) - p. 97 [778]

Chirally Selective, Intramolecular Interactions Observed in an Aminoacyl Adenylate Anhydride. Lacey, J.C. et al. (Birmingham, USA) - p. 151 [779]

Conservation of the Secondary Structure of Protein During Evolution and the Role of the Genetic Code. Soto, M.A. et al. (Santiago, Chile) - p. 157 [780]

Proceedings of the National Academy of Sciences of the USA

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Proteins of <u>Escherichia coli</u> Come in Sizes that are Multiples of 14 kDa: Domain Concepts and Evolutionary Implications. Savageau, M.A. (Ann Arbor, USA) - p. 1198 [781]

Speculations on the Early Course of Evolution. Darnell, J.E. and Doolittle, W.F. (New York, USA) - p. 1271 [782]

83 No. 7 1986

Origin of Eukaryotic Introns: a Hypothesis, Based on Codon Distribution Statistics in Genes, and Its Implication. Senapathy, P. (Bethesda, USA) - p. 2133 [783]

Multigene Families and Vestigial Sequences. Loomis, W.F. and Gilpin, M.E. (La Jolla, USA) - p. 2143 [784]

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A Model for the RNA-Catalyzed Replication of RNA. Cech, T.R. (Boulder, USA) - p. 4360 [785]

Systematics and Applied Microbiology

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Comparative Studies on Structure and Function of Archaebacterial Elongation Factors Indicate the

Phylogenetic Diversity of the Urkingdom. Gehrmann, R. et al. (Kiel, FRG) - p. 115 [786]

Mapping Evolution with 3 Dimensional Ribosome Structure. Lake, J.A. et al. (Los Angeles, USA) - p. 131 [787]

PRIMARY STRUCTURES

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Biochemistry

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Molecular Structure and Polymorphic Map of the Human Phenylalanime Hydroxylase Gene. DiLella, A. et al. (Houston, USA) - p. 743 [788]

25 No. 7 1986

Characterization of a cDNA Coding for Human Factor XII (Hageman Factor). Que, B.G. and Davie, E.W. (Seattle, USA) - p. 1525 [789]

25 No. 8 1986

Chicken U2 and U1 RNA Genes are Found in Very Different Genomic Environments but Have Similar Promoter Structures. Korf, G.M. and Stumph, W.E. (San Diego,USA)-p.2041[790] Amino Acid Sequence of Human Histidine-Rich Glycoprotein Derived from the Nucleotide Sequence of Its cDNA. Koide, T. et al. (Seattle, USA) - p. 2220 [791]

25 No. 9 1986

cDNA and Protein Structure for the α Subunit of Human Liver Alcohol Dehydrogenase. Von Bahr-Lindström, H. et al. (Stockholm, Sweden) - p. 2465 [792]

Glutathione Reductase from <u>Escherichia coli</u>: Cloning and Sequence Analysis of the Gene and Relationship to Other Flavoprotein Disulfide Oxidoreductases. Greer, S. and Perham, R.N. (Cambridge, VK) - p. 2736 [793]

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CDNA Sequences for Human von Willebrand Factor Reveal Five Types of Repeated Domains and Five Possible Protein Sequence Polymorphisms. Shelton-Inloes, B.B. et al. (St.Louis, USA) - p. 3164 [794]

Biosynthetic <u>alr</u> Alanine Racemase from <u>Salmonella</u> <u>typhimurium</u>: DNA and Protein Sequence Determination. Galakatos, N.G. et al. (Cambridge, USA) - p. 3255 [795]

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Structure, Evolution, and Tissue-Specific Synthesis of Human Apolipoprotein AIV. Karathanasis, S.K. et al. (Boston, USA) - p. 3962 [796]

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Detailed Analysis of the Mouse $H-2X^b$ Promoter: Enhancer-Like Sequences and Their Role in the Regulation of Class I Gene Expression. Kimura, A. et al. (Paris, France) - p.261 [797]

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Two Ca⁺⁺ ATPase Genes: Homologies and Mechanistic Implications of Deduced Amino Acid Sequences. Brandl, C.J. et al. (Toronto, Canada) - p. 597 [798]

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A Tandemly Repeated Sequence Determines the Binding Domain for an Erythrocyte Receptor Binding Protein of P. <u>falciparum</u>. Kochan, J. et al. (New York, USA)-p.689[799]

An Opsin Gene Expressed in Only One Photoreceptor Cell Type of the Drosophila Eye. Cowman, A.F. et al. (Berkeley, USA) - p. 705 [800]

Molecular Cloning and Sequence Analysis of a Haploid Expressed Gene Encoding <u>t</u> Complex Polypeptide 1. Willison, K.R. et al. (London, UK) - p. 727 [801]

44 No. 6 1986

Molecular Characterization of the Human Excision Repair Gene <u>ERCC-1</u>: cDNA Cloning and Amino Acid Homology with the Yeast DNA Repair Gene <u>RAD10</u>. Van Duin, M. et al. [Rotterdam, NL] - p. 913 [802]

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cdc25⁺ Functions as an Inducer in the Mitotic Control
of Fission Yeast. Russell, P. and Nurse, P. (London, UK)
- p. 145 [803]

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Characterization of the Intron in the Phage T4 Thymidylate Synthase Gene and Evidence for Its Self-Excision from the Primary Transcript. Chu, F.K. et al. (Albany, USA) - p. 157 [804]

Nucleotide Sequence of Mason-Pfizer Monkey Virus: An Immunosuppressive D-Type Retrovirus. Sonigo, P. et al. (Paris, France) - p. 375 [805]

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Identification and Characterization of Conserved and Variable Regions in the Envelope Gene of HTLV-III/LAV, the Retrovirus of AIDS. Starcich, B.R. et al. (Bethesda, USA) - p. 637 [806]

Isolation of the Bovine and Human Genes for Mullerian Inhibiting Substance and Expression of the Human Gene in Animal Cells. Cate, R.L. et al. (Cambridge, USA) p.685 [807]

Isolation and Characterization of a New Cellular Oncogene Encoding a Protein with Multiple Potential Transmembrane Domains. Young, D. et al. (Cold Spring Harbor, USA) p. 711 [808]

Diversity, Rearrangement, and Expression of Murine T Cell γ Genes. Garman, R.D. et al. (Cambridge, USA)-p.733[809]

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A Single Gene from Yeast for Both Nuclear and Cytoplasmic Polyadenylate-Binding Proteins: Domain Structure and Expression. Sachs, A.B. et al. (Stanford, USA)-p.827[810]

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The Triosephosphate Isomerase Gene from Maize: Introns Antedate the Plant-Animal Divergence. Marchionni, M. and Gilbert, W. (Cambridge, USA) - p. 133 [811]

Nucleotide Sequence of the Triosephosphate Isomerase Gene from <u>Aspergillus nidulans</u>: Implications for a Differential Loss of Introns. McKnight, G.L. et al. (Seattle, USA) - p. 143 [812]

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The Structure and Expression of Maize Genes Encoding the Major Heat Shock Protein, hsp 70. Rochester, D.E. et al. (St. Louis, USA) - p. 451 [813]

Isolation and Characterization of Genes Encoding Two Chitinase Enzymes from Serratia marcescens. Jones, J.D.G. et al. (Oakland, USA) - p. 467 [814]

Gene Conversion-Like Mechanisms May Generate Polymorphism in Human Class I Genes. Seemann, G.H.A. et al. (Amstardam, NL) - p. 547 [815]

The Chromosomal Gene Structure and Two mRNAs for Human Granulocyte Colony-Stimulating Pactor. Nagata, S. et al. (Tokyo, Japan) - p. 575 [816]

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The <u>Rhizobium leguminosarum</u> Nodulation Gene <u>nodF</u> Encodes a Polypeptide Similar to Acyl-Carrier Protein and Is Regulated by <u>nodD</u> Plus a Factor in Pea Root Exudate. Shearman, C.A. et al. (Norwich, UK) - p. 647 [817]

Regulated Expression of Repetitive Sequences Including the Identifier Sequence During Myotube Formation in Culture. Herget, T. et al. (Köln, FRG) - p. 659 [818]

Structural Organization and Sequence of the Homeotic Gene Antennapedia of Drosophila melanogaster. Schneuwly, S. et al. (Basel, CH) - p. 733 [819]

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The Chicken Oestrogen Receptor Sequence: Homology with $v-\underline{erb}\lambda$ and the Human Oestrogen and Glucocorticoid Receptors. Krust, λ . et al. (Strasbourg,France)-p.891[821]

Sequence, Topography, and Protein Coding Potential of Mouse <u>int</u>-2: a Putative Oncogene Activated by Mouse Mammary Tumour Virus.Moore,R. et al.(London,UK)-p.919[822]

Stage-Specific Expression of a Homeo Box-Containing Gene in the Non-Segmented Sea Urchin Embryo. Dolecki, G.J. et al. (Honolulu, USA) - p. 925 [823]

Chromosome Walking Shows a Highly Homologous Repetitive Sequence Present in All the Centromere Regions of Fission Yeast. Nakaseko, Y. et al. (Kyoto, Japan) - p. 1011 [824]

Two Tandemly Linked Identical Genes Code for the Glycosomal Glyceraldehyde-Phosphate Dehydrogenase in <u>Trypanosoma brucei</u>. Michels, P.A.M. et al. (Brussels, Belgium) - p. 1049 [825]

Archaebacteria: Transcription and Processing of Ribosomal RNA Sequences in <u>Halobacterium</u> <u>cutirubrum</u>. Chant, J. and Dennis, P. (Vancouver, Canada) - p. 1091 [826]

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Cloning and Structural Characterization of a Human Non-Erythroid Band 3-Like Protein. Demuth, D.R. et al. (Philadelphia, USA) - p. 1205 [828]

Nucleotide Sequence of the Coding Region of the Mouse $N-\underline{myc}$ Gene. Taya, Y. et al. (Tokyo, Japan) - p. 1215 [829] The Structure of the Mouse Glutathione Peroxidase Gene: The Selenccysteine in the Active Site is Encoded by the 'Termination' Codon, TGA. Chambers, I. et al. (Glasgow, UK) - p. 1221 [830]

Isolation of a Mouse cDNA Coding for a Developmentally Regulated, Testis-Specific Transcript Containing Homeo Box Homology. Wolgemuth, D.J. et al. (New York, USA) p. 1229 [831]

T35 pre-mRNA is Transcribed from a Non-TATA Promoter and is Alternatively Spliced in Human T Cells. Tunnacliffe, A. et al. (Cambridge, UK) - p. 1245 [832]

Characterization of the Gene for the Microbody (Glycosomal) Triosephosphate Isomerase of <u>Trypanosoma</u> <u>brucei</u>. Swinkels, B.W. et al. (Amsterdam, NL)-p.1291[833]

Dramatic Events in Ciliate Evolution: Alteration of UAA and UAG Termination Codons to Glutamine Codons Due to Anticodon Mutations in Two Tetrahymena tRNAs Hanyu,N. et al. (Tokyo, Japan) - p. 1307 [834]

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Primary Structure and Differential Expression of Glutamine Synthetase Genes in Nodules, Roots and Leaves of <u>Phaseolus</u> <u>vulgaris</u>. Gebhardt, C. et al. (Harpenden,UK)-p.1429[836]

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Structure and Expression of the Chicken 8 Nerve Growth Factor Gene. Ebendal, T. et al. (Uppsala, Sweden) - p.1483 [839]

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Primary Structure of a Developmentally Regulated Nicotinic Acetylcholine Receptor Protein from <u>Drosophila</u>. Hermans-Borgmeyer, I. et al. (Heidelberg, FRG) - p. 1503 [841] Structure of the IgG-Binding Regions of Streptococcal Protein G. Guss, B. et al. (Uppsala,Sweden)-p.1567[842] Two RNA Species Co-Purify with RNase P from the Fission Yeast <u>Schizosaccharomyces</u> pombe. Krupp, G. et al. (New Haven, USA) - p. 1697 [843]

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Genes Coding for the Elongation Factor EF-1 in Artemia. Lenstra, J.A. et al. (Leiden, NL) - p. 475 [844]

Nucleotide Sequence of the Promoter and Amino-Terminal Encoding Region of the <u>Escherichia coli pepN</u> Gene. Bally, M. et al. (Marseille, France) - p. 565 [845]

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Cloning and Nucleotide Sequence of a CDNA Encoding the Precursor of the Barley Toxin α -Hordothionin. Fonz, F. et al. (Madrid, Spain) - p. 131 [846]

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Nucleotide Sequence of the Bacteriophage T5 DNA Fragment Which Contains the Gene for tRNA^{ASP}. Shlyapnikov, M.G. et al. (Pushchino, USSR) - p. 285 [848]

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The Nucleotide Sequence of the <u>HEM1</u> Gene and Evidence for a Precursor Form of the Mitochondrial 5-Aminolevulinate Synthase in <u>Saccharomyces cerevisiae</u>. Urban-Grimal, D. et al. (Paris, France) - p. 511 [850]

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Cloning and Structural Characterization of the <u>Salmonella</u> <u>typhimurium pyrC</u> Gene Encoding Dihydroorotase. Neuhard,J. et al. (Kobenhagen, Denmark) - p. 335 [853]

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Coding Sequences for Chloroplast Ribosomal Protein S12 from the Liverwort, <u>Marchantia polymorpha</u>, are Separated Far Apart on the Different DNA Strands. Fukuzawa, H. et al. (Kyoto, Japan) - p. 11 [856]

Structure of a <u>Cephalosporium</u> <u>acremonium</u> mtDNA Replicator. Penalva, M.A. et al. (Madrid, Spain) - p. 92 [857]

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A Tobacco Chloroplast DNA Sequence Possibly Coding for a Polypeptide Similar to <u>E. coli</u> RNA Polymerase 8-Subunit. Ohme, M. et al. (Nagoya, Japan) - p. 87 [860]

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Tick-Borne Encephalitis Virus Genome. The Nucleotide Sequence Coding for Virion Structural Proteins. Pletnev, A.G. et al. (Novosibirsk, USSR) - p. 317 [862]

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Predicted Sequence of the Host-Protective Immunogen of Infectious Bursal Disease Virus. Hudson, P.J. et al. (Parkville, Australia) - p. 143 [864]

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Pig Kidney Na⁺, K⁺-ATPase. Primary Structure and Spatial Organization. Ovchinnikov, Y.A. et al. (Moscow, USSR) - p. 237 [865]

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Molecular Cloning of cDNA of S100 Subunit mRNA, Kuwano,R. et al. (Niigata, Japan) - p. 97 [866]

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Isolation of Partial cDNAs for Rat Liver and Muscle Glycogen Phosphorylase Isozymes. Osawa, S. et al. (Worcester, USA) - p. 282 [868]

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Isolation and Partial Characterization of the Calcitonin Gene in a Lower Vertebrate. Predicted Structure of Avian Calcitonin Gene-Related Peptide. Minivielle, S. et al. (Paris, France) - p. 7 [869]

Mutations in the Guinea Pig Preproglucagon Gene are Restricted to a Specific Portion of the Prohormone Sequence, Seino,S. et al. (Chicago, USA) - p. 25 [870]

Molecular Cloning of the Avian B-Nerve Growth Factor Gene: Transcription in Brain. Wion, D. et al. (Paris, France) - p. 82 [871]

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Cloning of Rat Brain Protein Kinase C Complementary DNA. Ono, Y. et al. (Osaka, Japan) - p. 111 [872]

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Nucleotide Sequence and Genome Organization of Bacteriophage S13 DNA. Lau, P.C.K. and Spencer, J.H. (Kingston, Canada) - p. 273 [875]

The Comple Sequence of <u>Bacillus</u> Phage 029 Gene <u>16</u>: A Protein Required for the Genome Encapsidation Reaction. Garvey, K.J. et al. (Tucson, USA) - p. 311 [876]

The Sequence of Foot-and-Mouth Disease Virus RNA to the 5' Side of the Poly(C) Tract. Newton, S.E. et al. (Woking, UK) - p. 331 [877]

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The GC Clusters of the Mitochondrial Genome of Yeast and Their Evolutionary Origin. De Zamaroczy, M. and Bernardi, G. (Paris, France) - p. 1 [878]

Complete Nucleotide Sequence of an EcoRI 1.35-kb Repeated Element (ER-1) of Mouse: Homology with the Intervening Region Between Two Intracisternal A-Particle Genes. Yang, A.D. et al. (Baltimore, USA) - p. 33 [879]

Primary Structure of the Maltase Gene of the MAL6 Locus of Saccharomyces cerevisiae. Hong, S.H. and Marmur, J. (Bronx, USA) - p. 75 [880]

Segmental Homology Between the Promoter Region of the Human Renin Gene and the Mouse renl and ren2 Promoter Regions. Soubrier, F. et al. (Paris, France) - p. 85 [881]

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Primary Structure of Human Salivary α-Amylase Gene. Nishide, T. et al. (Osaka, Japan) - p. 299 [884]

Cloning, Characterization and Nucleotide Sequences of Two cDNAs Encoding Human Pancreatic Trypsinogens. Emi, M. et al. (Osaka, Japan) - p. 305 [885]

Isolation and Characterization of Human Blood-Coagulation Factor X cDNA. Kaul, R.K. et al. (Chicago,USA)-p.311[886]

Cloning and Characterization of the <u>Schizosaccharomyces</u> <u>pombe</u> DNA Ligase Gene <u>CbC17</u>. Johnston, L.H. et al. (London, UK) - p. 321 [887]

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Structural and Functional Analysis of the Goat ϵ -Globin Genes. Menon, A.G. and Lingrel, J.B. (Cincinnati, USA) - p. 141 [889]

Cloning and Sequencing of mRNAs Coding for the Adult α -Globin Chains of the Salamander <u>Pleurodeles waltlii</u>. Flavin, M. et al. (Toulouse, France) - p. 159 [890]

The Nucleotide Sequence of the <u>main</u> Gene Encoding the Positive Regulator of the <u>Escherichia</u> <u>coli</u> Maltose Regulon. Cole, S.T. and Raibaud, O. (Paris, France) p. 201 [891]

Genomic Organization and Nucleotide Sequence of Two Corn Histone H4 Genes. Philipps, G. et al. (Strasbourg, France) - p. 225 [892]

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Nucleotide Sequence Corresponding to Five Chemotaxis Genes in <u>Escherichia coli</u>, Mutoh, N. and Simon, M.I. (Pasadena, USA) - p. 161 [895]

Nucleotide Sequence of the Transcription Unit Containing the <u>aroL</u> and <u>aroM</u> Genes from <u>Escherichia</u> <u>coli</u> K-12. DeFeyter, R.C. et al. (Parkville, Australia)-p.233[896]

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Isolation and Sequence Analysis of the Gene (<u>cpdB</u>) Encoding Periplasmic 2',3'-Cyclic Phosphodiesterase. Lin, J. et al. (Brisbane, Australia) - p. 1002 [898]

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Nucleotide Sequence of the Enterotoxin B Gene from <u>Staphylococcus</u> <u>aureus</u>. Jones, C.L. and Khan, S.A. (Pittsburgh, USA) - p. 29 [899]

Structural Features of Multiple <u>niff</u>-Like Sequences and Very Blased Codon Usage in Nitrogenase Genes of <u>Clostridium pasteurianum</u>. Chen, K.C.-K. et al. (Blacksburg, USA) - p. 162 [900]

Characterization of the Developmentally Regulated <u>Bacillus</u> <u>subtilis</u> Glucose Dehydrogenase Gene. Lample, K.A. et al. (Bethesda, USA) - p. 238 [901]

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Nucleotide Sequences of the R1-19 Plasmid Transfer Genes \underline{traM} , \underline{finP} , \underline{traJ} , and \underline{traY} and the \underline{traYZ} Promoter. Finlay, B.B. et al. (Edmonton, Canada) - p. 368 [904]

Lysogenic Conversion of Staphylococcal Lipase is Caused by Insertion of the Bacteriophage L54a Genome into the Lipase Structural Gene. Lee, C.Y. and Iandolo, J.J. (Manhattan, USA) - p. 385 [905]

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