

## Recently Published Papers in the Field of Molecular Evolution

### GENERAL ASPECTS

#### Journal of Theoretical Biology

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A Tetrahedral Representation of Poly-Codon Sequences and a Possible Origin of Codon Degeneracy. Trainor, L. E. H. et al. (Toronto, Canada) - p. 459

Gain of Information and Evolutionary Stable Strategy in Hypercyclic Organization. Ishide, K. (Ibaraki, Japan)-p.469

#### Nature

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Origin of a Gene Regulatory Mechanism in the Evolution of Echinoderms. Raff, R. A. et al. (Bloomington,USA)-p.312

#### Origins of Life

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Chemical Evolution in Space. Greenberg, J. M. (Leiden, The Netherlands) - p. 25

Some Evidence for the Possible Presence of Peptides in Two Chondrites by Use of a Sequencing Procedure. Ivanov, C. P. et al. (Sofia, Bulgaria) - p. 61

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Structural Relationships Among Genes that Control Development: Sequence Homology Between the *Antennapedia*, *Ultrabithorax*, and *Fushi Tarazu* Loci of *Drosophila*. Scott, M.P. and Weiner, A. J. (Boulder, USA) - p. 4115

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Expression Cloning of Human EGF Receptor Complementary DNA: Gene Amplification and Three Related Messenger RNA Products in A431 Cells. Lin, C. R. et al. (La Jolla, USA) - p. 843

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Structure and Expression of a Complementary DNA for the Nuclear Coded Precursor of Human Mitochondrial Ornithine Transcarbamylase. Horwitz, A. L. et al. (New Haven, USA) - p. 1068

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Sequencing the *erbB* Gene of Avian Erythroblastosis Virus Reveals a New Type of Oncogene. Debussche, B. et al. (Lille, France) - p. 1456

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The Structure of Rat Preproatrial Natriuretic Factor as Defined by a Complementary DNA Clone. Seidman, C. E. et al. (Boston, USA) - p. 324

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Length and Structural Effect of Signal Peptides Derived from *Bacillus subtilis*  $\alpha$ -Amylase on Secretion of *Escherichia coli*  $\beta$ -Lactamase in *B. subtilis* Cells. Ohmura, K. et al. (Ibaraki-ken, Japan) - p. 5307

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Molecular Weight and Structural Nonequivalence of the Mature  $\alpha$  Subunits of *Torpedo californica* Acetylcholine Receptor. Conti-Tronconi, B.M. et al. (Pasadena, USA) - p. 2631

Amino Acid Sequence of Homologous Rat Atrial Peptides: Natriuretic Activity of Native and Synthetic Forms. Seidah, N. G. et al. (Montreal, Canada) - p. 2640

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Internal Homologies in the Two Aspartokinase-Homoserine Dehydrogenases of *Escherichia coli* K-12. Ferrara, P. et al. (Paris, France) - p. 3019

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Structure of the Trg Protein: Homologies with and Differences from Other Sensory Transducers of *Escherichia coli*. Bollinger, J. et al. (Pullman, USA) - p. 3287

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Complete Amino Acid Sequence of Human  $\beta$ -Glycoprotein I. Lozier, J. et al. (Bloomington, USA) - p. 3640

Amino Acid Sequence of Porcine Spleen Cathepsin D. Shewale, J. G. and Tang, J. (Oklahoma City, USA) - p. 3703

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Partial Characterization of 21.5K Myelin Basic Protein from Sheep Brain. Carnegie, P. R. and Dowse, C. A. (Bundoora, Australia) - p. 936

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Rat Transforming Growth Factor Type 1: Structure and Relation to Epidermal Growth Factor. Marquardt, H. et al. (Frederick, USA) - p. 1079

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Isolation, Structure, and Synthesis of a Human Seminal Plasma Peptide with Inhibin-Like Activity. Ramasharma, K. et al. (Montreal, Canada) - p. 1199

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Evolution of Proteolytic Enzymes. Neurath, H. (Seattle, USA) - p. 350

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Primary Structure of Tryptophan-Containing Peptides from Skin Extracts of *Phyllomedusa rhodela* (Tryptophyllins). Montecuccoli, P.C. et al. (Milan, Italy) - p. 276

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Putative High Mobility Group (HMG) Non-Histone Chromosomal Proteins from Wheat Germ. Isolation, Characterization and Partial Sequence Analysis. Mayes, E. L. V. and Walker, J. M. (London, UK) - p. 516

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Protein Sequence Homologies Between Portions of the L and M Subunits of Reaction Centers of *Rhodopseudomonas capsulata* and the Q<sub>B</sub>-Protein of Chloroplast Thylakoid Membranes: a Proposed Relation to Quinone-Binding Sites. Hearst, J.E. and Sauer, K. (Berkeley, USA) - p. 421  
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