

Recently Published Papers in the Field of Molecular Evolution

Acta Biologica et Medica Germanica

34 No.7 1975

Discontinuity of the large ribosomal subunit RNA and rRNA molecular weights in eukaryote evolution. Cammarano, P., et al. (Laboratorio di Radiobiologia Animale, CSN Casaccia, CNEN, Roma, Italy; II cattedra di Biologia generale, Università di Roma) - p. 1123

Biochemical Genetics

13 No.7/8 (August) 1975

Hb Mobile [$\alpha_2\beta_2$ 73(E17)Asp → Val]: A New Variant. Schneider, Rose G., et al. (Department of Pediatrics, University of Texas Medical Branch, Galveston, Texas) - p. 411

The Biochemical Journal

149 No.1 (July) 1975

The Amino Acid Sequence of the α Chain of the Major Haemoglobin of the Rat (*Rattus norvegicus*). Chua, Ching Geh, et al. (Department of Pathology, Christchurch Hospital, Christchurch, New Zealand) - p. 259

The Amino Acid Sequence of Cytochrome f from the Brown Alga *Alaria esculenta* (L.) Grev. (Atlantic Regional Laboratory, National Research Council of Canada, Halifax, Nova Scotia B3H 3Z1, Canada) - p. 271

151 No.2 (November) 1975

The Amino Acid Sequence of *Staphylococcus aureus* Penicillinase. Ambler, R.P. (Department of Molecular Biology, University of Edinburgh, Edinburgh EH9 3JR, U.K.) - p. 197

Biochemistry

14 No.18 (September) 1975

Rotational Allomerism and Divergent Evolution of Domains in Immunoglobulin Light Chains. Edmundson, A.B., et al. (Division of Biological and Medical Research, Argonne National Laboratory, Argonne, Illinois 60439) - p. 3953

Biochimie

57 No.6/7 (Octobre) 1975

The determination of the primary structure of the 16S ribosomal RNA of *Escherichia coli*. III. Further studies. Ehresmann, Chantal, et al. (Institut de Biologie Moléculaire et Cellulaire du CNRS, 15 rue Descartes, Strasbourg, France) p. 711

Probable identity of the β chains from the two chicken hemoglobin components. Vandecasserie, C., et al. (Laboratoire de Chimie Générale I, Faculté des Sciences, Université libre de Bruxelles, 1050 Bruxelles, Belgique) - p. 843

Bioorganic Chemistry

4 No.3 (September) 1975

Amino Acids and Peptides. XLI. A Possible Active Site Homology between Carbonic Anhydrase and β -Lipotropin Hormone. Weinstein, Boris, Bartschot, Rita M. (Department of Chemistry, University of Washington, Seattle, Washington 98195) p. 290

Canadian Journal of Botany

53 No.16 (August) 1975

A new fossil plant of probable intermediate affinities (Trimerophyte - Progymnosperm). Andrews, Henry N., et al. (University of Connecticut, Storrs, Connecticut 06268) - p. 1719

Cell

5 No.4 (August) 1975

The Amino Acid Sequence of Thymopoietin II. Schlesinger, David H., Goldstein, Gideon (Endocrine Unit, Massachusetts General Hospital, Boston, Mass. 02114) - p. 361

Differentiation

3 Nos. 1-3 (August) 1975

Relation of an Evolutionary Mechanism to Differentiation.
Flickinger, R. (Division of Cell and Molecular Biology,
Cary Hall, State University of New York, Buffalo, New York
14214) - p. 155

European Journal of Biochemistry

57 No. 2 1975

On the Primary Structure of Human Plasminogen and Plasmin.
Purification and Characterization of Cyanogen-Bromide Fragments. Wiman, Björn, Wallén, Per (Department of Physiological Chemistry, Umeå University, S-901 87 Umeå, Sweden) - p. 387

Amino-Acid Composition of the Covalent Rigid-Layer Lipoprotein in Cell Walls of *Proteus mirabilis*. Gruss, Peter, et al. (Fachbereich Biologie/Mikrobiologie, Technische Hochschule Darmstadt, D-6100 Darmstadt, Federal Republic of Germany) - p. 411

Similarities and Differences of Five Peroxidases from Turnip and Horseradish. Peptide Mapping Studies on Glycoproteins. Welinder, Karen Gjesing, and Mazza, Gilbert (Institute of Biochemical Genetics, University of Copenhagen, DK-1353 Copenhagen, Denmark) - p. 415

58 No. 1 1975

Amino-Acid Sequence of Toxin III of *Naja haje*. Kopeyan, Charles, et al. (Laboratoire de Biochimie, Faculté de Médecine, Secteur Nord et Unité 38 de l'Institut National de la Santé et de la Recherche Médicale Marseille, F-13326 Marseille-Cedex-3, France) - p. 117

FEBS Letters

58 No. 1 (October) 1975

Haemoglobin Volga, B27, (B9) Ala → Asp, a New Highly Unstable Haemoglobin with a Suppressed Charge. Idelson, L.I., et al. (Central Hospital, Ministry of Transport, Pogonoskaja Street, Moscow, USSR) - p. 122

Complete Amino Acid Sequence of Human Serum Albumin. Meloun, B., et al. (Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, 166 10 Prague 6, Czechoslovakia) - p. 134

Hemoglobin Castilla B32 (B14) Leu → Arg; A New Unstable Variant Producing Severe Hemolytic Disease. Garel, M.C., et al. (Unité de Recherches sur les Anémies I.N.S.E.R.M.U 91, Hôpital Henri Mondor 94010 Créteil, France) - p. 145

Hemoglobin C Ziguinchor $\alpha_2^A \beta_2^6$ (A3) Glu → Val β^{58} (E2) Pro → Arg: The Second Sickling Variant with Amino Acid Substitutions in 2 Residues of the β Polypeptide Chain. Goossens, M., et al. (Unité de Recherches sur les Anémies, I.N.S.E.R.M.U 91, Hôpital Henri Mondor, 94010 Créteil, France) - p. 149

Hb Serbia ($\alpha 112$ (G19) His → ARG), A New Haemoglobin Variant from Yugoslavia. Bekšedić, D., et al. (The Institute of Blood Transfusion, Beograd, Yugoslavia) - p. 226

The Complete Amino Acid Sequence of the Major Ovine Neurophysin (MSEL-Neurophysin); Comparison with a RE-Investigated Bovine MSEL-Neurophysin. Chauvet, Marie-Thérèse, et al. (Laboratory of Biological Chemistry, 96, Bd Raspail, 75006 Paris, France) - p. 234

A New Unstable Hemoglobin Mutated in β 98 (FG 5) Val → Ala: Hb Djelfa. Gacon, Gérard, et al. (Institut de Pathologie Moléculaire, Unité 15 INSERM, CHU Cochin, 24, rue du faubourg Saint-Jacques, 75014 Paris, France) - p. 238

The Amino Acid Sequence of the A Chain of Human α -Crystallin. de Jong, Wilfried W., et al. (Laboratorium voor Biochemie, Universiteit van Nijmegen, Nijmegen, The Netherlands) - p. 310

Hoppe-Seyler's Zeitschrift für Physiologische Chemie

356 No.10 (Oktober) 1975

Die Aminosäuresequenz des doppelköpfigen Proteinases-Inhibitors aus der Glandula submandibularis des Hundes. I. Strukturelle Homologie zu den sekretorischen Trypsin-Inhibitoren der Bauchspeicheldrüse. Hochstrasser, Karl, Fritz, Hans. (Hals-Nasen-Ohrenklinik der Universität München, D-8 München, Pettenkoferstr. 4a) - p. 1659

The Journal of Biological Chemistry

250 No.15 (August) 1975

Primary Structure of Human Fibrinogen and Fibrin. Isolation and Partial Characterization of Chains of Fragment D. Collen, Désiré, et al. (Department of Blood Coagulation Research,

Karolinska Institutet, S-104 01 Stockholm 60, Sweden) -
p. 5808

The Primary Structure of Actin from Rabbit Skeletal Muscle.
Five Cyanogen Bromide Peptides, Including the NH₂ and COOH
Termini. Elzinga, Marshall, Collins, John H. (Boston Bio-
medical Research Institute, Boston, Massachusetts 02114) -
p. 5897

The Primary Structure of Actin from Rabbit Skeletal Muscle.
Three Cyanogen Bromide Peptides that are Insoluble at Neutral
pH. Collins, John H., Elzinga, Marshall (Boston Biomedical
Research Institute, Boston, Massachusetts 02114) - p. 5906

The Primary Structure of Actin from Rabbit Skeletal Muscle.
Completion and Analysis of the Amino Acid Sequence. Collins,
John H., Elzinga, Marshall (Boston Biomedical Research In-
stitute, Boston, Massachusetts 02114) - p. 5915

Amino Acid Sequence of a Vitamin K-dependent Ca²⁺-Binding
Peptide from Bovine Prothrombin. Howard, James Bryant, et
al. (Department of Biochemistry, College of Medical Sciences,
University of Minnesota, Minneapolis, Minnesota 55455) -
p. 6178

250 No.16 (August) 1975

Amino Acid Sequence Homology of Mammalian Type C RNA Virus
Major Internal Proteins. Oroszlan, Stephen, et al. (Flow
Laboratories, Inc., Rockville, Maryland 20852) - p. 6232

Guinea Pig Proinsulin. Primary Structure of the C-Peptide
Isolated from Pancreas. Massey, Derek E., Smyth, Derek G.
(National Institute for Medical Research, Mill Hill, London
NW7 1AA, England) - p. 6288

Proinsulin: A Proposed Three-Dimensional Structure. Snell,
Christopher R., Smyth, Derek G. (National Institute for
Medical Research, Mill Hill, London NW7 1AA, England) -
p. 6291

Journal of Theoretical Biology

53 No.2 (September) 1975

Magnolia Seed Carotenoid Pigments: Typical Evolutionarily-
Static Relicts? Bauman, A.J., Yokoyama, Henry (Bioscience
Section, Jet Propulsion Laboratory, 4800 Oak Grove Drive,
Pasadena, California 91103, USA) - p. 277

Molecular and Cellular Biochemistry

8 No.3 (September) 1975

Information Contained in the Amino Acid Sequence of the $\alpha_1(1)$ -Chain of Collagen and its Consequences upon the Formation of the Triple Helix, of Fibrils and Crosslinks.

Fietzek, Peter P., Kühn, Klaus (Max-Planck-Institut für Biochemie, 8033 Martinsried bei München, Germany) - p. 141

Nature

257 No.5526 (October) 1975

Organisation and evolution of *Drosophila virilis* heterochromatin. Holmquist, Gerald (Department of Medical Genetics, City of Hope National Medical Center, Duarte, California 91010) - p. 503

257 No.5527 (October) 1975

Thermodynamic activation parameters of fish myofibrillar ATPase enzyme and evolutionary adaptations to temperature. Johnston, I.A., Goldspink, G. (Research Unit for Comparative Animal Respiration, University of Bristol, Bristol BS8 1UG, U.K.) - p. 620

Phytochemistry

14 No.7 (July) 1975

Cytochrome cs from *Rhodymenia palmata* and *Porphyra umbilicalis* and the Amino Acid Sequences of their N-Terminal Regions. Meatyard, Barry T., et al. (Department of Botany, University of Durham, Durham DH1 3LE, England) - p. 1493

14 No.9 (September) 1975

The Amino Acid Sequence of Cytochrome c from Niger-Seed, *Guizotia abyssinica*. Ramshaw, John A., Boulter, Donald (Department of Botany, University of Durham, Durham City DH1 3LE, England) - p. 1945

Proceedings of the National Academy of Sciences

72 No.8 (August) 1975

Amino-acid sequence and oligosaccharide attachment sites of human erythrocyte glycophorin. Tomita, Motowo, Marchesi, Vincent T. (Department of Pathology, Yale University School of Medicine, New Haven, Conn. 06510) - p. 2964

Bovine factor X₁ (Stuart Factor): Amino-acid sequence of heavy chain. Titani, K., et al. (Department of Biochemistry, University of Washington, Seattle, Wash. 98195) - p. 3082

Acetylcholine receptors at neuromuscular synapses: Phylogenetic differences detected by snake α -neurotoxins. Burden, Steven J., et al. (Department of Zoology, University of Wisconsin, Madison, Wisc. 53706) - p. 3245

72 No.9 (September) 1975

Nucleotide sequences of the 3'-terminal untranslated region of messenger RNA for human beta globin chain. Forget, Bernard G., et al. (Division of Hematology-Oncology of the Department of Medicine, Children's Hospital Medical Center, and the Department of Pediatrics, Harvard Medical School, Boston, Massachusetts 02115) - p. 3614

Constancy of amino-terminal amino-acid sequences of antibodies of defined specificity and shared idioype from individual inbred mice. Friedenson, Bernard, et al. (Department of Biological Chemistry, University of Illinois College of Medicine, Chicago, Ill. 60612) - p. 3676

Group selection, altruism, reinforcement, and throwing in human evolution. Darlington, P.J., Jr. (Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts 02138) p. 3748

Science

190 No.4211 (October) 1975

¹⁸O Changes in Foraminifera Carbonates during the Last 10⁵ Years in the Mediterranean Sea. Grazzini, C. Vergnaud. (Laboratoire de Géologie Dynamique, Associé au Centre National de la Recherche Scientifique, 4, Place Jussieu, 75005 Paris, France) - p. 274

South African Journal of Science

71 No.8 (August) 1975

Limulid Trackways in the Late Palaeozoic Eccs Sediments and their Palaeoenvironmental Significance. Anderson, Ann M. (Bernard Price Institute for Palaentological Research, University of the Witwatersrand, Johannesburg 20001) - p. 249