

**FEBS SPECIAL MEETING ON ENZYMES***Dubrovnik-Cavtat, Yugoslavia, 17-21 April 1979*

The Union of the Yugoslav Biochemical Societies has the pleasure of inviting all biochemists to participate in this Special FEBS Meeting, which will be held at the "Croatia" hotel in Cavtat near Dubrovnik.

The following information has been taken from the Second Announcement.

**SCIENTIFIC PROGRAMME***Plenary Lectures*

Opening Session. The 10th Sir Hans Krebs Lecture will be given by P.Desnuelle, on "The Hydrolases Bound to the Intestinal and Renal Brush Border. An Example of Transmembrane Proteins".

Closing Session. Closing lectures will be given by A.Kornberg, on "DNA Replication", and by F.Lynen, on "On the Structure of Fatty Acid Synthetase in Yeast".

**SECTIONS**

The scientific programme of the Meeting will be arranged in seven sections and will include lectures and short communications presented on posters.

**S 1 Regulation of Enzyme Activity**

Role of Enzyme Catalyzed Covalent Modifications in Regulation of Catalyses by *E.coli* Glutamine Synthetase (*E.R.Stadtman*); Structure-Function Relationships in Fructose-Bisphosphatases (*B.L.Horecker*); The Kinetic Analysis of Ligand Induced Responses (*H.Gutfreund*); Ligand Binding Properties and Subunit Interactions in Yeast Alcohol Dehydrogenase (*V.Leskovac*); Structure and Function of Protein Kinase from Pig Brain (*E.S.severin*); Specificity and Structural Requirements of Casein Kinases (*L.A.Pinna*); Structure, Function and Regulation of the Pyruvate Dehydrogenase Complex (*L.J.Reed*); Structure of Glycogen in Relation to the Regulation of Glycogen Metabolism (*W.J.Wheeler*); Mapping the Regulatory Pathway of Glycogen Metabolism (*P.Cohen*); Acid Phosphatase, a Glycoprotein of the Yeast Cell Wall (*P.Mildner*); Probing of Microenvironment by Fluorescein Derivatives (*A.E.Evangelopoulos*); On the Role of Water in Acceleration of an Enzymatic Reaction (*M.Pavlič*).

**S 2 Enzymes in Nucleic Acid and Protein Synthesis**

Nucleases as Tools in the Investigation of DNA and Chromatin Structure (*H.G.Zachau*); Enzymatic Synthesis and Biological Properties of Site-modified  $\phi$ x174 DNA (*R.Chambers*); Polynucleotide Phosphorylase as a Probe for the Regulatory Function of the 3'-Region of mRNA and Viral RNA in Translation (*U.Littauer*); Studies on Transcriptional Control in Simple Prokaryotic Model Systems (*W.Zillig*); Crystallographic Studies on Tyrosyl tRNA Synthetase (*D.M.Blow*); Interactions of Yeast Aminoacyl-tRNA Synthetases with their Ligands (*J.P.Ebel*); Molecular Enzymology of Tryptophanyl-tRNA Synthetase (*L.L.Kisselev*); Proofreading Processes in Protein Biosynthesis (*F.Cramer*); The Role of Cortisol-Specific Receptor in the Regulation of Translocation (*D.T.Kanazir*); Coordinated Induction of Kidney Glycosidases by Androgens (*S.L.Petrović*).

**S 3 Proteolytic Enzymes**

Limited Proteolysis and Regulation (*H.Neurath*); Aspects of the Degradation of Proteins by Cells (*A.J.Barret*); Structure and Function of Proteinases and Inhibitors from Yeast (*H.Holzer*); Intracellular Proteinases of Bacteria—Isolation, Chemistry, Evolutionary Aspects (*V.M.Stepanov*); A Comparative Study on Gastric Proteinases (Phylogenetic and Ontogenetic Aspects) (*B.Foltman*); The Structure-Function Relationships of Collagenolytic Enzymes (*B.Keil*); The X-Ray Structure, Evolution and Activity of Acid Proteinases (*T.L.Blundell*); Studies on Porcine Cathepsin D, Its Possible Precursor and Activator (*J.N.Tang*); Intracellular Neutral Proteinases and Their Inhibitors (*M.Kopitar*); Carboxyl and Thiol Intracellular Proteinases (*V.Turk*); Characteristics of the Uptake and Turnover of Yeast Invertase by Rat Liver (*H.L.Segal*); Structural and Functional Aspects of Animal and Human Protein Proteinase Inhibitor (*H.Fritz*).

**S 4 Enzymes in Parasites**

Helminth Enzymes as Targets for Antihelminthic Drugs (*H.van den Bossche*); Kinetic Properties of Arylesterases and Cholinesterases in Parasitic Helminths and Mammals (*E.Reiner*); The Role and Inhibition of Phosphoenolpyruvate Carboxykinase in *Fasciola hepatica* (Trematoda) (*R.K.Prichard*); Enzyme Degradation of

Glucose in *Metastrongylus apri* (S.Krvavica); Enzymes of Proline Production in Fasciola and Schistosoma (H.Isseroff); The Function of Mitochondrial Enzymes in Animal Parasitic Helminths (P.Kohler); Parasite-Specific Aspects of the Nucleotide Metabolism and its Regulation in Pathogenic Protozoa (E.König); Hydrogenosomal Metabolism in Trichomonads Including Particular Enzyme Reactions (J.Čerkasov & A.Čerkasovova); Metabolic and Structural Changes Associated with Differentiation in Trypanosomes (B.A.Newton); Anaerobic and Aerobic Energy Metabolism in the Liver Fluke (*Fasciola hepatica*) (S.G.van den Bergh).

### S5 Clinical Enzymology

International Method Standardization (H.Bergmeyer); Active Site Titration as a Tool in Enzyme Standardization (M.Roth); Selected Method for Creatine Kinase Activity (G.Szasz); Enzymes and Isoenzymes of Heart Muscle during and after Myocardial Infarction (T.T.Berezov); Isoenzymes as Diagnostic Indicators (A.Burlina); Selection of Methods in the Study of Isoenzymes (D.W.Moss); Some Insights on Liver Cell Membrane Enzymes and Isoenzymes (S.Danev); Use of Enzyme Determinations in Plasma in the Evolution of Myocardial Tissue Ischemia. Models for Determination of Appearance of Myocardial Enzymes in Plasma during Myocardial Ischemia (M.Horder & P.Hyltoft Petersen); A Direct and Indirect Evidence of Enzyme Induction Caused by Drugs in Humans and Animals (G.Siest); Reverse Transcriptase: a Probe for Viral Etiology of Human Cancer (P.Chandra); Developmental Changes of Acidic Phosphoprotein Phosphatase Activity in the Spleen of Rats (I.Japundžić).

### S6 Enzymes of Industrial Interest

New Developments in Traditional Enzyme Products (K.Aunstrup); Enzymes Covalently Bound to Solid Supports (J.Turkova); Industrial Application of Fibre-Entrapped Enzymes (W.Marconi); Extracellular Enzymes in Food Processing (P.F.Fox & P.A.Morrissey); Enzymatic Degradation of Cellulosic Materials (H.Dellweg); Microbial Enzymes which Hydrolyze Fibrin and Enzymes Degrading Cholesterol (A.A.Imshenetskij); Purification of Human beta-Glucosyl Ceramidase from Cultured Cells for Potential Enzyme Replacement Therapy in Gaucher's Disease (A.Rosenberg); Environmental Factors and Cultivation Techniques in Fungal alpha-Amylase Production (J.Meyrath); Enzymes as By-Products during Biosynthesis of Antibiotics (M.Pokorný & L.J.vitale); Hydrolytic Enzymes on the Cellular Surface and Their Inhibitors Found in Microorganisms (T.Aoyagi & H.Umezawa); On the Concept of Suicide Substrates and Transition State Analogue Inhibitors; Its Application and Use for the Design of Highly Specific Enzyme Activators (U.Brodbeck).

### S7 Free Communications

This section will cover topics outside the scope of other sections.

### ROUND TABLE DISCUSSIONS

A round table discussion on "NAD-Dependent Dehydrogenase" (co-ordinator: P.L.Luisi) has been organized. Other round table discussions are planned.

### POSTER SESSIONS

All short communications will be given as posters. The abstract deadline is 1 December 1978.

### EXHIBITION

An international exhibition of biochemical reagents, laboratory equipment and scientific literature will be held in the halls of the "Croatia" hotel during the Meeting.

### REGISTRATION AND ACCOMMODATION

#### Registration fees

	Before 15.1.1979	After 15.1.1979
Active participants	US \$ 60	US \$ 100
Accompanying persons	US \$ 30	US \$ 50

#### Accommodation

Completed Hotel Reservation Forms should be returned by 31 January 1979. Bookings cannot be guaranteed if requests are received after this date.

### FURTHER INFORMATION

The Second Announcement, with registration, poster abstract, and accommodation forms, is available from the Meeting Secretariat:

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