

# News from the International Union for Pure and Applied Biophysics

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## AHARON KATZIR KATCHALSKY, 1913–1972

As President of IUPAB from 1964 to 1969, *Quarterly Reviews of Biophysics* owes a particular debt to Aharon Katchalsky. One of the many fields in which he took such an enlightened interest was that of seeking better means of communication between scientists, and he was always a strong supporter of the idea that IUPAB should set out to publish a series of authoritative reviews on recent progress in the different areas of biophysics. This support was expressed in practical terms when, in collaboration with R. Spangler, he produced a notable article on 'Dynamics of membrane processes' for our second issue (*Q. Rev. Biophys.* (1968), 1, 127–75). It is planned to dedicate a future issue of *Quarterly Reviews of Biophysics* to his memory.

## THIRD INTERNATIONAL BIOPHYSICS CONGRESS IN MOSCOW, AUGUST 1972

### GENERAL SYMPOSIUM SG NEURONAL ORGANIZATION

Monday 7 August

- Co-chairmen* W. Reichardt (FRG)  
G. M. Frank (USSR)
- Speakers* H. Hubel (USA)  
S. V. Fomin (USSR)  
W. Reichardt (FRG)  
M. Jacobson (USA)

### SYMPOSIUM I. PROTEIN STRUCTURE AND FUNCTION

#### *Theoretical approach to the protein structure*

Tuesday 8 August

- Co-chairmen* A. I. Kitaigorodsky (USSR)  
G. N. Ramachandran (India)
- Speakers* B. Pulman (France)  
H. A. Scheraga (USA)  
O. P. Ptitsyn (USSR)  
M. V. Volkenstein (USSR)  
S. Lifson (Israel)

*Protein structure*

Friday 11 August

- Co-chairmen* H. A. Scheraga (USA)  
B. K. Vainstein (USSR)
- Speakers* U. Hackert (USA)  
T. Takano (USA)  
N. S. Andreeva (USSR)  
R. H. Kretsinger (USA)  
E. Whitehead (Italy)

*Protein conformation in solutions*

Saturday 12 August

- Co-chairmen* J. T. Edsall (USA)  
M. V. Volkenstein (USSR)
- Speakers* O. Jardetsky (USA)  
A. Schechter (USA)  
P. L. Privalov (USA)  
I. M. Lifschits (USSR)  
R. Lumry (USA)

## SYMPOSIUM II. STRUCTURE AND FUNCTION OF NUCLEIC ACIDS

*Structure of nucleic acids*

Wednesday 9 August

- Co-chairmen* A. K. Kleinschmidt (USA)  
M. A. Mokulsky (USSR)
- Speakers* S. Arnott (USA)  
I. Tinoco (USA)  
R. L. Baldwin (USA)  
G. Felsenfeld (USA)  
Yu S. Lazurkin and  
M. D. Frank-Kamenetskii (USSR)

*Conformation effects in nucleic acids*

Sunday 13 August

- Co-chairmen* P. Doty (USA)  
Yu. S. Lazurkin (USSR)
- Speakers* B. M. Alberts (USA)  
Ch. Zimmer and  
G. Luck (DDR)  
J. Vinograd (USA)  
E. V. Frisman (USSR)

SYMPOSIUM III. BIOPHYSICS OF MOTILITY

*Structural basis of motility* Wednesday 9 August

*Co-chairmen* W. Mommaerts (USA)  
G. M. Frank (USSR)  
*Speakers* F. Oosawa (Japan)  
J. Hanson (UK)  
F. Guba (Hungary)  
W. Drabikowski (Poland)  
I. Gibbons (USA)

*Analysis of contraction mechanisms (Theories and facts)* Sunday 13 August

*Co-chairmen* F. Buchtal (Denmark)  
B. F. Poglasov (USSR)  
*Speakers* V. I. Descherevsky (USSR)  
R. Podolsky (USA)  
R. A. Chaplain (DDR)  
N. Kamija (Japan)  
D. R. Wilkie (UK)

SYMPOSIUM IV. MEMBRANE STRUCTURE AND FUNCTION

*The proteins and lipids in biomembranes* Tuesday 8 August

*Chairman* Yu A. Vladimirov (USSR)  
*Speakers* P. Zahler (Switzerland)  
S. V. Konev (USSR)  
R. D. Keynes (UK)  
I. Tasaki (USA)

*Paramagnetic probes and labels in studies on biological membranes. Free-radicals in biomembranes* Wednesday 9 August

*Co-chairmen* O. Jardetsky (USA)  
V. R. Bistrov (USSR)  
*Speakers* H. M. McConnell (USA)  
B. Chance,  
J. Vanderkooi and  
K. Blasi (USA)  
Yu A. Vladimirov (USSR)

*Ion selectivity and permeability in natural and artificial membranes*

Friday 11 August

- Co-chairmen* R. D. Keynes (UK)  
Yu. A. Ovchinnikov (USSR)
- Speakers* D. A. Haydon (UK)  
A. A. Lev (USSR)  
P. G. Kostyuk (USSR)  
G. Eisenman (USA)  
B. Hille (USA)

*Bioenergetic processes in membrane structures*

Saturday 12 August

- Co-chairmen* V. P. Skulachev (USSR)  
E. C. Slater (Netherlands)
- Speakers* A. Lehninger (USA)  
L. Packer (USA)  
E. A. Liberman (USSR)  
E. C. Slater (Netherlands)  
B. Pressman (USA)

## SYMPOSIUM V. STRUCTURE AND FUNCTION OF PARAMAGNETIC CENTRES AND FREE RADICALS IN BIOLOGICAL SYSTEMS

*Free radicals in photobiological processes*

Tuesday 8 August

- Co-chairmen* B. Chance (USA)  
A. Krasnovsky (USSR)
- Speakers* E. C. Weaver (USA)  
L. A. Blumenfeld (USSR)

*Free radical centres and electron transport*

Friday 11 August

- Co-chairmen* L. A. Blumenfeld (USSR)  
G. Tollin (USA)
- Speakers* L. P. Kayushin (USSR)  
A. Ehrenberg (Sweden)

*Paramagnetic metal-containing complexes in biological systems*

Saturday 12 August

- Co-chairmen* G. Feber (USA)  
M. Kotani (Japan)
- Speakers* W. E. Blumberg (USA)  
R. Sands (USA)

*Some new aspects of magnetic resonance methods  
for biology* Sunday 13 August

*Co-chairmen* A. Ehrenberg (Sweden)  
L. P. Kayushin (USSR)  
*Speakers* J. S. Hyde (USA)  
G. Feher (USA)

SYMPOSIUM VI. RADIATION BIOPHYSICS

*Biophysical aspects of radiation effects on  
processes of cell division regulation* Wednesday 9 August

*Co-chairmen* G. Tobias (USA)  
A. M. Kusin (USSR)  
*Speakers* J. Kiefer (BRD)  
Z. Dienstbier (Czechoslovakia)  
E. B. Burlakova (USSR)  
D. Kanasir (Yugoslavia)  
Fr. Zaidela (France)  
G. T. Whitmore (Canada)

*Primary steps of radiation effects on  
biopolymers* Friday 11 August

*Co-chairmen* R. Setlow (USA)  
A. A. Krasnovsky (USSR)  
*Speakers* L. Grossweiner (USA)  
D. I. Roshchupkin (USSR)  
F. Hutchinson (USA)  
J. Longworth (USA)  
D. Shugar (Poland)

*Radiation effects on biological systems  
(Free radicals)* Saturday 12 August

*Co-chairmen* N. M. Emanuel (USSR)  
H. C. Box (USA)  
*Speakers* T. Henrikson (Norway)  
M. K. Pulatova (USSR)  
H. C. Box (USA)  
B. M. Tarusov (USSR)  
Yu A. Kudryashov

SYMPOSIUM VII. COMMUNICATION AND CONTROL PROCESSES IN  
BIOLOGICAL SYSTEMS

*Cerebellum, Formation and regeneration of fibre connections in sensory systems* Saturday 12 August

*Co-chairmen* R. Llinas (USA)  
S. V. Fomin (USSR)  
*Speakers* I. M. Gelfand (USSR)  
R. Llinas (USA)  
O. Oscarsson (Sweden)  
M. Jacobson (USA)  
B. N. Veprinzev (USSR)

*Quantitative analysis of biological systems* Sunday 13 August

*Co-chairmen* W. Siebert (USA)  
W. Rosenblith (USA)  
*Speakers* S. Knight (USA)  
S. Evans (UK)  
E. E. Selkov (USSR)  
Y. Mano (Japan)

SYMPOSIUM VIII. MEDICAL BIOPHYSICS

*Principles of organisation of movement control systems* Wednesday 9 August

*Co-chairmen* A. Lundberg (Sweden)  
V. S. Gurfinkel (USSR)  
*Speakers* A. Lundberg (Sweden)  
V. S. Gurfinkel,  
P. G. Kostyuk and  
M. L. Shick (USSR)  
M. Ito (Japan)  
A. Pellionisz and  
J. Szentagothai (Hungary)

*Biophysical aspects of cancerogenesis and malignant growth* Sunday 13 August

*Co-chairmen* N. M. Emanuel (USSR)  
L. H. Piette (France)  
*Speakers* N. M. Emanuel (USSR)  
Yu. P. Kozlov (USSR)

E. L. Andronikashvili (USSR)  
L. H. Piette (France)  
H. M. Swarz (USA)

SYMPOSIUM IX. BIOPHYSICS OF RECEPTION

Sunday 13 August

*Co-chairmen* L. Beidler (USA)  
V. G. Samsonova (USSR)  
*Speakers* E. W. Abrahamson (USA)  
H. M. Emrich (BRD)  
S. L. Bonting (Netherlands)  
M. A. Ostrovsky (USSR)  
K. Kirschfeld (BRD)

SYMPOSIUM X. COMPUTER TECHNIQUE IN  
BIOMEDICAL RESEARCH

Friday 11 August

*Co-chairmen* J. R. Cox (USA)  
G. Ivanitsky (USSR)  
*Speakers* W. Raub (USA)  
J. Cox (USA)  
G. McCann (USA)  
G. Ivanitsky (USSR)  
D. Barry (UK)  
P. Hugenholtz (Netherlands)

SYMPOSIUM XI. BIORHEOLOGY

Tuesday 8 August

*Co-chairmen* A. L. Copley (USA)  
V. I. Vorob'ev (USSR)  
*Speakers* A. S. Popel  
S. A. Regirer  
I. M. Skobeleva and  
P. I. Usik (USSR)  
A. L. Copley  
C. R. Huang and  
R. G. King (USA)  
J. F. Gross and  
J. Aroestry (USA)  
D. E. Brooks and  
D. V. F. Seaman (USA)  
L. V. Kuchareva  
V. I. Vorob'ev

S. Ya-Frenkel and  
B. M. Ginzburg (USSR)  
Elichi Fukada (Japan)  
A. Silberberg (Israel)

SYMPOSIUM XII. PHYSICS OF SUBCELLULAR SYSTEMS

*Structure of ribosomes and mechanism of protein biosynthesis* Tuesday 8 August

*Chairman* A. S. Spirin (USSR)  
*Speakers* A. S. Spirin (USSR)  
Ch. G. Kurland (Sweden)  
I. Rychlik (Czechoslovakia)  
J. Cerna  
H. G. Wittman and  
R. R. Crichton (BRD)

*The role of protein and nucleic acid interactions in (a) DNA and RNA polymerase systems; (b) repression and host modification of DNA* Saturday 12 August

*Co-chairmen* J. Wyman (USA)  
Z. Kellenberger (Switzerland)  
*Speakers* W. Gilbert (USA)  
W. Arner (USA)  
W. Zillig (BRD)  
M. Billeter (Switzerland)

SYMPOSIUM IOMP. APPLICATION OF  
SHORT-LIVED RADIONUCLIDES IN MEDICAL  
RESEARCH

Tuesday 8 August

*Chairman* J. S. Laughlin (USA)  
*Speakers* M. Ter-Pogossian (USA)  
H. I. Glass (UK)  
G. L. Brownell (USA)  
G. Kellershohn (France)  
J. S. Laughlin (USA)

## Forthcoming Meetings

### *July*

- 2-7 9th International Congress of Gerontology. Kiev, USSR. Sec.: Professor D. Chebotarev, Institute of Gerontology, Kiev 114, Vyshgorodskaya 67, U.S.S.R.
- 2-8 IUPAC International Symposium on Macromolecules: Helsinki, Finland.
- 3-5 IUPAP International Conference on Bond Structure in Solids: Exeter, U.K.
- 3-8 IUPAC Symposium 'Chemistry in Evolution and Systematics'. Strasbourg, France. Sec.: Mr J. B. Harborne, Botany Department, The University, Reading, Berks, U.K.
- 10-14 IUBS Symposium on Plant Biochemistry: Leeds, U.K.
- 16-22 IUPAC 4th International Photochemistry Symposium. Karlsruhe, B.R.D.
- 17-21 IUPAC 7th International Symposium on the Relativity of Solids: Bristol, U.K.
- 18-21 IUPAP 6th International Cyclotron Conference: Vancouver, Canada.
- 19-21 IUPAP Meeting on Radiation Induced Defects in Semi-conductors: Reading U.K.
- 20-26 IUPAP International Congress on Teaching Physics to students of Physics, Related Sciences and Engineering: Kiel, B.R.D.
- 23-28 5th Congress of International Union of Pharmacology, San Francisco. Sec.: Mrs H. P. Lemp, 9650 Rockville Pike, Bethesda, Maryland 20014, U.S.A.
- 25-29 IUPAP 11th International Conference on Physics of semi-conductors. Warsaw, Poland.
- 30-4 Aug. 3rd International Conference on Medical Physics. Goteborg, Sweden. Write: Professor R. Magnusson, Chalmers Technical University, S-402, Gottenburg 5, Sweden.  
IUPS Symposium on Foetal Physiology. Cambridge, U.K.

### *August*

- 7-11 IUPAP 3rd International Conference on Atomic Physics. Boulder, U.S.A.
- 14-18 IUPAC International Symposium on Carbohydrate Chemistry. Madison, Canada.
- 20-26 IUPAP 13th International Conference on Low Temperature Physics. Boulder, U.S.A.
- 21-25 IUPAC 5th International Congress on Catalysis. Miami Beach, U.S.A.
- 21-25 8th FEBS Meeting (Biochemical Society). Amsterdam.

- 21-25 6th International Congress on Photobiology. Bochum, West Germany. Write: Professor H. Tronnice, Universitäts-Bauklinik, D-7400, Tübingen. Spons: Comite International de Photobiologie.
- 21-25 4th International Congress of Histochemistry and Cytochemistry, Kyoto, Japan. Sec.: Professor K. Ogawa, Department of Anatomy, Kansai Medical School, Moriguchi, Osaka, Japan.
- 22-24 IUPS Symposium on Dynamics and Control in Physiological Systems. Rochester, U.S.A.
- 22-30 14th International Congress of Entomology. Canberra, Australia. Sec.: Dr C. N. Smithers, P.O. Box 216, Civic Square, A.C.T. Australia 2608.
- 26-7 Sept 9th International Congress of Crystallography, Kyoto, Japan. Sec.: Mr Y. Saito, Organising Committee of Crystallography Science Council of Japan. 22-34 Roppongi, 7-Chome, Minato-Ku, Tokyo 106. Japan.
- 27-7 Sept IUCr XI General Assembly. 4th International Congress, Kyoto, Japan.
- 28-31 IUPAC 10th Microsymposium on Macromolecules: Prague, Czechoslovakia.
- 28-1 Sept. 15th International Conference on the Biochemistry of Lipids. The Hague. General theme: 'Enzyme Reactions in Lipid Biochemistry'. Write: Dr B. H. Tritten, Unilever Research, P.O. Box 114, Vlaardingen, The Netherlands.
- 28-1 Sept. IUPAC 5th International Congress on Catalysis, Miami Beach, U.S.A.
- 28-1 Sept. IUPAC International Symposium on Microbial Engineering. Marienbad, Czechoslovakia.

### *September*

- 3-8 International Congress of Cell Biology, Falmer, nr Brighton, Sussex, U.K. Write: Dr B. M. Richards, Searle Research Laboratories, Lane End Road, High Wycombe, Bucks.
- 3-8 IUPAP Meeting on Properties of Liquid Metals. Tokyo, Japan.
- 3-9 IUNS 9th International Congress of Nutrition. Mexico. Secretary: Dr S. Zubrian, Instituto Nacional de la Nutricion, Division de Nutricion, San Buinaventura y Vuaducto Tlalpan, Tlalpan, Mexico 22, D.F. Mexico.
- 4-7 IUPAC 11th Microsymposium on Macromolecules, Prague, Czechoslovakia.
- 4-8 1st International Congress of Biorheology, together with 6th International Congress on Rheology. Lyons, France. Write: Dr A. L. Copley President of the International Society of Biorheology, 50 Central Park West, New York, N.Y. 10023, U.S.A.
- 4-8 IUPAP Meeting on Nuclear Moments and Nuclear Structure. Osaka, Japan.

- 4-8 IUPAC Conference on Physical Organic Chemistry. Cran-sur-Sierre, Switzerland.
- 4-15 Summer School 'Assemblies of Biomacromolecules'. Strunjan, Yugoslavia. Organized by the University of Zagreb and Ljubljana in cooperation with the Coordination Centre for Molecular Sciences of the Council of Academies of Yugoslavia. Write: S. Maricic, Institut za biologiju Sveucilista. P.O.B. 294, 41000 Zagreb, Yugoslavia.
- 5-9 IUPAC International Conference on Physical Chemistry. Bucharest, Romania.
- 6-13 IUPAP International Conference on High Physics. Chicago, U.S.A.
- 11-15 IUPAC International Congress on Surface Activity. Zurich, Switzerland.
- 13-15 IUPAC International Symposium on Medicinal Chemistry. Milan, Italy.

*October*

- 3-7 IUPS International Symposium on Motor Control. Varna, Bulgaria
- 4-7 IUPS Meeting on Respiratory Chemoregulation and its related disorders. Istanbul, Turkey.

*November*

- 23-26 IUPAP International Conference on Modulation Spectroscopy. Tucson, U.S.A.

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*July*

- 1-7 9th International Congress of Biochemistry, Stockholm. Sec.: Dr G. Aulin-Erdiman, Svenska Kemistsamfundet, Wenner-Gren Center, 6tr S-113, 46 Stockholm, Sweden.

*September*

- 3-8 24th IUPAC Congress: 'Medical Chemistry' Hamburg. Sec.: Dr W. Fritsche, Gesellschaft Deutscher Chemiker, 6 Frankfurt am Main, 90 Germany.

*October*

- 15-20 13th International Congress of Radiology. Madrid. Write: The Secretariat, Decimotercio. Congreso Internacional de Radiologia, Lagasca 27, Madrid I.