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B. K. Krueger
Role of carbohydrates in glycoprotein hormone signal transduction.
M. R. Safram
Biological actions of carotenoids. A. Bendich and J. A. Olson
Lens crystallins and their genes: diversity and tissue-specific expression.
J. Piatigorsky
Eicosanoid biosynthesis and action: novel opportunities for pharmacological intervention. S. Nicosia and C. Patrono

Research Communications
Metabolites of the glycolytic pathway modulate the activity of single cardiac Na+ channels. M. Kohlhadi, H. Fichtner, and U. Fröbe
Effects of sleep deprivation on human immune functions. H. Moldofsky, F. A. Lue, J. R. Davidson, and R. Gorczynski
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And, the exteriors of Gilson fraction collectors are durable, too. For example, the FC 203 features a chemically-resistant molded case and keypad to protect the unit inside and out from spills.

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NEW!

Jokl, Miloslav V.—MICROENVIRONMENT: The Theory and Practice of Indoor Climate. '88, 426 pp. (6¼ x 9¼), 207 ill., 57 tables, about $67.50.

By Miloslav V. Jokl, Technical University of Prague, Czechoslovakia. With a Foreword by Byron W. Jones. CONTENTS: The Theory of Physical Microenvironment; Indoor Climate and the Role of Heat and Humidity; The Impact of Odors; The Danger of Toxics; The Importance of a Clean Environment; Aerosol Microclimate; The Threat of Germs; Microbial Microclimate; The Risk of Radioactive Materials; The Problem of Static Electricity; The Question of Electromagnetic Waves; The Implications of Ions for Human Health; The Effect of Noise on Well-Being; The Psychological Effects of Microenvironment; The Effect of Microenvironment on Human Performance; Energy Conservation and Microenvironmental Conditions.

NEW!

Weinhold, Virginia Beamer—INTERIOR FINISH MATERIALS FOR HEALTH CARE FACILITIES: A Reference Source for All Installations Where Durable Surfaces are Needed. '88, 376 pp. (7 x 10), 41 ill., 25 tables, $71.25.

NEW!

Zacharkow, Dennis—POSTURE: SITTING, STANDING, CHAIR DESIGN AND EXERCISE. '88, 456 pp. (6¼ x 9¼), 190 ill., 6 tables, $54.75.

NEW!

Lesnoff-Caravaglia, Gari (translator and editor) & Dr. Angiri Kirkov Hadjihristev (author)—LIFE-STYLE FOR LONG LIFE: Longevity in Bulgaria. '88, 124 pp. (7 x 10), $26.75.

Lutz, Wolfgang—DISSMANTLING A MYTH—THE ROLE OF FAT AND CARBOHYDRATES IN OUR DIET. '87, 288 pp. (6¼ x 9¼), 49 ill. (7 in color), $35.00.

By Wolfgang Lutz. With Forewords by Hans Kaunitz and Hans Glätzel. CONTENTS: The Fore-runners; Myself as the Guinea-Pig; Outline of a Low-Carbohydrate Diet; Obesity; Carbohydrates and Glandular Disorders; Carbohydrates and Diabetes; Gastrointestinal Tract; Arteriosclerosis; Cardiac Failure; Diseases of the Nervous System; Nutrition and Age: Cancer; Evolution as an Argument; How Does a Low-Carbohydrate Diet Work?; Pro and Contra; Carbohydrate Restriction in Practice; Concluding Remarks; Carbohydrate Tables; Recipes.

van Eys, Jan & James M. Bowen—THE COMMON BOND: The University of Texas System Cancer Center Code of Ethics. '86, 192 pp. (7 x 10), $29.75.

Thadeppalli, Haragopal & Ashis K. Mandal—ANATOMICAL BASIS OF INFECTION DISEASE. '84, 390 pp. (8½ x 11), 120 ill., $54.25.

NEW!

Grave, Gilman D. & Fernando G. Cassorla—DISORDERS OF HUMAN GROWTH: Advances in Research and Treatment. '88, 408 pp. (6¼ x 9¼), 76 ill., 43 tables, about $52.75.

Edited by Gilman D. Grave and Fernando G. Cassorla, both of National Institutes of Health, Bethesda, Maryland. CONTENTS: The Seven Ages of Growth; GHRH Therapy for GH-Deficient Children; Evaluation and Treatment of Growth Hormone Deficiency With Growth Hormone Releasing Hormone; Neurosecretory Control of Growth Hormone-Releasing Hormone; Biological Functions of Insulin-Like Growth Factor I/Somatomedin C; Use of Somatomedin Assays in the Evaluation of Short Stature; Somatomedin Inhibitors; Growth Hormone Neurosecretory Dysfunction; Further Data Analysis; Spontaneous Growth Hormone Secretion in Normal and Short Prepubertal Children; Detection of Variant Growth Hormones: The Bioinactive and "Invisible" GH Syndromes; The Use of Monoclonal Antibodies to Study Circulating Growth Hormone Variants; Long-Term Treatment With Growth Hormone of Children With Non-GH Deficient Short Stature: Role of Height Prediction in Assessment of Beneficial Effect; Growth Hormone in Non-GH Deficient Short Stature: Objectives of a Clinical Trial; Growth Hormone and Whole Body Protein Metabolism In Vivo; Somatomedins and Fetal Growth; Synthesis of Somatomedins/Insulin-Like Growth Factors in the Fetus; Thyroid Hormone Effects on Growth and Development; Effects of Steroids on Bone Growth; Mechanism of the Pubertal Growth Spurt; The Effects of Gonadal Sex Steroids and Their Reversible Suppression on Statural Growth and Skeletal Maturation in Girls With Central Precocious Puberty; The Genetic Basis of Growth Hormone Deficiency; Molecular Forms of Growth Hormone.

NEW!

Shiraki, Keizo & Mohamed K. Yousef—MAN IN STRESSFUL ENVIRONMENTS: DIVING, HYPER-AND HYPOBARIC PHYSIOLOGY. '88, 286 pp. (7 x 10), 86 ill., 34 tables, $46.75.

NEW!

Shiraki, Keizo & Mohamed K. Yousef—MAN IN STRESSFUL ENVIRONMENTS: THERMAL AND WORK PHYSIOLOGY. '88, 324 pp. (7 x 10), 93 ill., 29 tables, $50.25.

NEW!


Al-Doory, Yousef & Shirley Ramsey—MOULDS AND HEALTH: WHO IS AT RISK? '87, 264 pp. (6¼ x 9¼), 32 ill., 2 tables, $41.25.

Randolph, Theron G.—HUMAN ECOLOGY AND SUSCEPTIBILITY TO THE CHEMICAL ENVIRONMENT. (7th Ptg.) '81, 160 pp., 1 ill., 1 table, $24.00.

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A comprehensive FJ Calendar is published 4 times a year (January, April, July, and October). In other months, only new listings appear. FJ denotes a new listing.

**MAY 1989**

24-26 Freezing and Freeze-Drying of Microorganisms, Rockville, Maryland, USA. Workshop Coordinator, American Type Culture Collection, 12301 Parklawn Dr., Rockville, MD 20852, USA.

29 May -1 Jun. Trace Substances in Environmental Health, Westin Hotel, Cincinnati, Ohio, USA. Dr. D. D. Hemphill, Environmental Trace Substances Research Center, Route #3, U. of Missouri-Columbia, Columbia, MO 65211, USA.

**JUNE 1989**

28-30 Medical Applications of Liposomes, Cluj-Napoca, Romania. Dr. G. Benga, Dept. of Cell Biology, Faculty of Medicine Cluj-Napoca, 6 Pasteur St., 3400 Cluj-Napoca, Romania.


28 Jun. Molecular Biology of Neurodegenerative Disease, Lake Tahoe, California, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.

**AUGUST 1989**

8-11 Fermentation Microbiology, Rockville, Maryland, USA. Workshop Coordinator, American Type Culture Collection, 12301 Parklawn Dr., Rockville, MD 20852, USA.

14-18 General Principles in Toxicology and Toxicologic Pathology, Parker House, Boston, Massachusetts, USA. Ms. Pam Brickley, Dept. of Continuing Med. Education, Boston U. Sch. of Med., 80 E. Concord St., Boston, MA 02118, USA.

25-28 Epidermal Growth Factor and Related Proteins in Development, Iowa State University, Ames, Iowa, USA. MCDB Symposia Series, 141 Bessey Hall, Iowa State U., Ames, IA 50011, USA.

**SEPTEMBER 1989**

4-6 First International Conference on Marine Biotechnology, Tokyo, Japan. Dr. I. K. Karube, Research Lab. of Resources Utilization, Tokyo Institute of Technology, Nagatsuda-cho, Midori-ku, Yokohama 227, Japan.

8-12 1989 ASCB Summer Research Conference on Chromosome Structure and Segregation, Airlie House Conference Center, Airlie, Virginia, USA. American Society for Cell Biology, 9650 Rockville Pike, Bethesda, MD 20814, USA.


18-21 Seventh International Neurotoxicology Conference on Neurotoxicology and Risk Assessment, Little Rock, Arkansas, USA. Dr. Joan M. Cranmer, Dept. of Pediatrics #512, U. of Arkansas for Medical Sciences, Little Rock, AR 72205, USA.

22-26 8th Sesqui-Annual Meeting of The American Society for Rickettsial Diseases, Diamond Point, Lake George, New York, USA. Dr. Karim E. Hechemony, Wadsworth Center for Labs. and Research, NY State Dept. of Health, P.O. Box 509, Albany, NY 12201, USA.

**OCTOBER 1989**

2-3 Annual Meeting of the International Society of Regulatory Toxicology and Pharmacology, Mariott Hotel, Washington, D.C., USA. Dr. C. Jelleff Carr, 6546 Belleview Dr., Columbia, MD 21046, USA.


10-19 International Training Course on Biomembranes, Beijing, China. Dr. F. Y. Yang, Institute of Biophysics, Academia Sinica, Beij ing 100080, China.

11-15 Endocrinology, Diagnosis and Treatment, National Institutes of Health, Bethesda, Maryland, USA. Foundation for Advanced Education in the Sciences, One Cloister Ct., Suite 230, Bethesda, MD 20814, USA.

19-22 Concepts in Molecular Biology, Hyatt Regency Bethesda, Bethesda, Maryland, USA. Marsha Ryan, American Association of Pathologists, 9650 Rockville Pike, Bethesda, MD 20814, USA.

22-25 Progress in Retinoids, Palermo, Italy. Dr. M. A. Livrea, Universita di Palermo, Instituto di Chimica Biologica, 90127 Palermo, Italy.


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<td>29 Oct.</td>
<td>8th International Symposium on Affinity Chromatography and Biological Recognition</td>
<td>Jerusalem, Israel. AC/BR Secretariat, Dr. E. A. Bayer, Weizmann Institute of Science, 76100 Rehovot, Israel.</td>
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<td>30 Oct.</td>
<td>Glycogen Metabolism: Regulation and Molecular Genetics</td>
<td>Miami, Florida, USA. Dr. William J. Whelan, Dept. of Biochemistry and Molecular Biology, U. of Miami Sch. of Med., P.O. Box 106120, Miami, FL 33101, USA.</td>
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**NOVEMBER 1989**

- 5-9 29th Annual Meeting of the American Society for Cell Biology, George R. Brown Convention Center, Houston, Texas, USA. American Society for Cell Biology, 9650 Rockville Pike, Room L-3111, Bethesda, MD 20814, USA.
- 13-17 Flavonoids in Biology and Medicine, Singapore. Dr. N. P. Das, Dept. of Biochemistry, Faculty of Medicine, National U. of Singapore, 0511 Singapore.
- 14-16 Neural Transport, Receptors and Intracellular Signaling, Tbilisi, USSR. Dr. Z. P. Kometiani, I. S. Beriaishvili Institute of Physiology, Georgian Academy of Sciences, 14 Gotua St., 380060 Tbilisi, USSR.
- 16-17 1989 Kinetics Workshop, Maison Dupuy Hotel, New Orleans, Louisiana, USA. Dr. Loren Zech, National Institutes of Health, Bldg. 10, Rm. 7N-117, Bethesda, MD 20892, USA.
- 19-23 Mathematical Models of Cellular Processes, Holzhau, GDR. Dr. R. Heinrich, Sektion Biologie der Humboldt-Universitat Berlin, Invalidenstrasse 42, 1040 Berlin, GDR.

**JANUARY 1990**

- 16-21 Ionizing Radiation Damage to DNA: Molecular Approaches, Lake Tahoe, California, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 16-21 Molecular Biology of Streptomyces, Frisco, Colorado, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 20-26 Molecular Basis of Cell Adhesion, Steamboat Springs, Colorado, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 20-26 Cytoskeleton and Cell Regulation, Steamboat Springs, Colorado, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 20-27 New Strategies in Bone Marrow Transplantation, Keystone, Colorado, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 21-28 Manipulating the Mammalian Genome, Tamarron, Colorado, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 27 Jan. Molecular Pathways of Cytokine Action, Park City, Utah, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 27 Jan. Cellular Immunity and the Immunotherapy of Cancer, Park City, Utah, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 27 Jan. Transcriptional Control of Cell Growth, Keystone, Colorado, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.

**FEBRUARY 1990**

- 3-8 Biochemistry and Molecular Biology of Biosensors and Bio-probes, Frisco, Colorado, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 3-9 Genetic and In Vitro Analysis of Cell Compartmentalization, Taos, New Mexico, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 9-14 Polyamines in Cell Proliferation and Differentiation, Taos, New Mexico, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 9-15 Signal Transduction by G Proteins, Tamarron, Colorado, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 22-27 Molecular Biology of Yersiniae, Frisco, Colorado, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 24 Feb. The Inorganic Chemistry/Molecular Biology Interface of Metals, Santa Fe, New Mexico, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 27 Feb. Synthetic Peptides: Approaches to Biological Problems, Frisco, Colorado, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.

**MARCH 1990**

- 3-9 Negative Controls on Cell Growth, Taos, New Mexico, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 4-9 21st Annual Meeting of the American Society for Neurochemistry with participation of the Japanese Society for Neurochemistry, Phoenix, Arizona, USA. Dr. Marion E. Smith, Dept. of Neurology 127A, V.A. Med. Center, 3801 Miranda Ave., Palo Alto, CA 94304, USA.
- 5-11 Airways Inflammation, Tamarron, Colorado, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 11-16 Biology of Sarcomas, Lake Tahoe, California, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 19-25 Protein Purification and Biochemical Engineering, Lake Tahoe, California, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 31 Mar. HIV and AIDS: Pathogenesis, Denver, Colorado, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 31 Mar. B Lymphocyte Development, Park City, Utah, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.

**APRIL 1990**

- 6-11 The Endothelial Cell, Keystone, Colorado, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
- 6-12 Tissue Engineering, Keystone, Colorado, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.
6-13 Signal Transduction and Gene Activation in Development, Steamboat Springs, Colorado, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.

6-13 Growth and Differentiation Factors in Development, Steamboat Springs, Colorado, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.

16-23 Molecular Strategies for Crop Improvement, Keystone, Colorado, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.

17-23 Cell and Molecular Aspects of the Developing Nervous System, S. Padre Island, Texas, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.

17-23 Molecular Biology of Neurotransmitters and Their Receptors, S. Padre Island, Texas, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.

17-23 Molecular Neurobiology of Oncogenes and Growth Factors, S. Padre Island, Texas, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.

17-23 Neurotrophic Factors, S. Padre Island, Texas, USA. UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA.


AUGUST 1990


