## Journal of Cellular Biochemistry

Formerly Journal of Supramolecular Structure and Cellular Biochemistry

EDITORS In the United States C. FRED FOX, Molecular Biology Institute, University of California, Los Angeles, CA 90024 In Europe MAX M. BURGER, Friedrich Miescher Institute, P.O. Box 2543, CH-4002, Basel, Switzerland EDITORIAL BOARD RICHARD ANDERSON, Department of Cell Biology, University of Texas Health Science Center, Dallas, TX 75235 ARTHUR BLUME, Physiological Chemistry, Roche Institute of Molecular Biology, Nutley, NJ 07110 RALPH BRADSHAW, Department of Biological Chemistry, University of California, Irvine, CA 92717 DENNIS D. CUNNINGHAM, Department of Microbiology, University of California, Irvine, CA 92717 MICHAEL EDIDIN, Department of Biology, Johns Hopkins University, Baltimore, MD 21218 FREDERICK A. EISERLING, Department of Bacteriology, University of California, Los Angeles, CA 90024 ELLIOT ELSON, Department of Biological Chemistry, Washington University School of Medicine, St. Louis, MO 63110 WOLFGANG EPSTEIN, Department of Biochemistry, University of Chicago, Chicago, IL 60637 WERNER W. FRANKE, Institute of Experimental Pathology, German Cancer Research Center, 69 Heidelberg 1, West Germany IAN GIBBONS, Pacific Biomedical Research Center, University of Hawaii, Honolulu, HI 96822 GORDON GILL, Department of Medicine, University of California, La Jolla, CA 92093 LUIS GLASER, Department of Biological Chemistry, Washington University School of Medicine, St. Louis, MO 63110 IRA GOLDFINE, Professor in Residence, Medicine, Mt. Zion Hospital, San Francisco, CA 94115 EUGENE GOLDWASSER, Department of Biochemistry, University of Chicago, Chicago, IL 60637 CURTIS HARRIS, Laboratory of Human Carcinogenesis, National Cancer Institute, Bethesda, MD 20205 HARVEY HERSCHMAN, Department of Biological Chemistry, University of California, Los Angeles, CA 90024 R. COLIN HUGHES, National Institute for Medical Research, London NW7 1AA, England TONY HUNTER, Molecular Biology and Virology Laboratory, Salk Institute, San Diego, CA 92138 KARL ILLMENSEE, Laboratoire de Differentiation Cellulaire, 1223 Geneva, Switzerland EDWARD KELLENBERGER, Biozentrum der Universität Basel, Klingelbergstrasse 70, CH-4056 Basel, Switzerland JOHN H. LAW, Department of Biochemistry, University of Arizona, Tucson, AZ 85721 HAROLD MOSES, Department of Cell Biology, Vanderbilt University School of Medicine, Nashville, TN 27232 GARTH L. NICOLSON, Department of Tumor Biology (108), University of Texas, Houston, TX 77030 DALE L. OXENDER, Department of Biological Chemistry, University of Michigan, Ann Arbor, MI 48109 ROBERT POYTON, Department of Molecular, Cellular, and Developmental Biology, University of Colorado, Boulder, CO 80309 JEAN PAUL REVEL, Division of Biology, 156-29, California Institute of Technology, Pasadena, CA 91125 PHILLIPS W. ROBBINS, Massachusetts Institute of Technology, Cambridge, MA 02139 RUSSELL ROSS, Department of Pathology, University of Washington, Seattle, WA 98195 DAVID SABATINI, Department of Cell Biology, New York University Medical School, New York, NY 10016 MILTON SAIER, Department of Biology, University of California, San Diego, La Jolla, CA 92037 ERIC SHOOTER, Department of Neurobiology, Stanford University School of Medicine, Stanford, CA 94305 ROBERT D. SIMONI, Department of Biology, Stanford University, Stanford, CA 94305 CHARLES STILES, Department of Microbiology, Harvard Medical School, Boston, MA 02115 HANS THOENEN, Max-Planck-Institut für Psychiatrie, Abteilung Neurochemie, Am Klopferspitz 18 a, D-8033 Martinsried bei München, West Germany GEORGE TODARO, Oncogen, 3005 First Avenue, Seattle, WA 98121 ANITI VAHERI, Department of Virology, University of Helsinki, SF-00290 Helsinki, Finland JAMES WATSON, Department of Pathology, University of Auckland Medical School, Auckland, New Zealand IRVING WEISSMAN, Department of Pathology, Stanford University School of Medicine, Stanford, CA 94305 DAVID WILSON, Department of Biochemistry, Cornell University, Ithaca, NY 14853 KAREL W.A. WIRTZ, Laboratory of Biochemistry, Transitorium, Utrecht, The Netherlands H.G. WITTMANN, Max-Planck-Institut für Molekulare Genetik, Ihnestrasse 63-73, D-1000 Berlin 33 (Dahlem), West Germany

Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by Alan R. Liss, Inc. for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of \$00.50 per copy, plus \$00.25 per page is paid directly to CCC, 27 Congress Street, Salem, MA 01970, 0730-2312/88 \$00.50 + .25.

Journal of Cellular Biochemistry (ISSN 0730-2312) is published by Alan R. Liss, Inc., 41 East 11th Street, New York, NY 10003. Subscription Price: Volumes 36, 37, and 38 (12 issues), plus Supplements 12A, B, C, D, and E, 1988: \$639 in US; \$708 outside US. Special Personal Rate: \$95 in US; \$134 outside US. Subscriptions at the personal rate are available to individuals whose institutions have a subscription. Note: Supplements 12A-E are not included in personal rate subscriptions. Supplements 12A-E: \$165 in US; \$195 outside US. All subscriptions outside North America will be sent by air. Payment must be made in US dollars drawn on a US bank. Change of Address: Please send to publisher six weeks prior to move; enclose present mailing label with change of address. Claims for Missing Issues: Claims cannot be honored beyond four months after mailing date. Duplicate copies cannot be sent to replace issues not delivered because of failure to notify publisher of change of address. Cancellations: Subscription cancellations will not be accepted after the first issue has been mailed. Exclusive agent in Japan: Igaku Shoin Limited, Foreign Department, 1-28-36 Hongo, Bunkyoku, Tokyo 113, Japan. Subscription rate in Japan is ¥ 174,000 for Volumes 36, 37, 38, and Supplements 12A, B, C, D, and E (Air cargo service only). Indexed by: CC/Life Sciences-Science Citation Index • Chemical Abstracts • Index Medicus • BIOSIS-Data Base • Excerpta Medica • Information Retrieval, Ltd. • Cambridge Scientific Abstracts • ISI-Soviet Union.

Printed in the United States of America.