

Journal of Cellular Biochemistry

EXECUTIVE EDITORS

In the United States: **C. Fred Fox** • Molecular Biology Institute, University of California, Los Angeles, CA 90024-1570

Gary S. Stein • Department of Cell Biology, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, MA 01655

In Europe: **Max M. Burger** • Friedrich-Miescher Institut, Postfach 2543, CH-4002 Basel, Switzerland

FIELD EDITORS

Garth L. Nicolson • Department of Tumor Biology (108), MD Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030

W. Jackson Pledger • Department of Cell Biology, Vanderbilt University School of Medicine, Nashville, TN 37232

James Watson • Department of Pathology, University of Auckland School of Medicine, Auckland, New Zealand

EDITORIAL BOARD

Jorge E. Allende
Universidad de Chile
Santiago, Chile

Richard G.W. Anderson
University of Texas Health Science Center
Dallas, TX

J. Bar-Tana
The Hebrew University
Jerusalem, Israel

Mina J. Bissell
Lawrence Berkeley Laboratory
Berkeley, CA

Judith Campisi
Boston University Medical School
Boston, MA

Kermit L. Carraway
University of Miami School of Medicine
Miami, FL

Moses V. Chao
Cornell Medical School
New York, NY

Richard A. Clark
State University of New York at Stony Brook
Health Science Center
Stony Brook, NY

David R. Clemmons
University of North Carolina
Chapel Hill, NC

Carl M. Cohen
St Elizabeth's Hospital
Boston, MA

Dennis D. Cunningham
University of California
Irvine, CA

Michael P. Czech
University of Massachusetts Medical Center
Worcester, MA

Benoit De Crombrughe
University of Texas
M.D. Anderson Cancer Center
Houston, TX

Pierre De Meyts
Hagedorn Research Laboratory
Gentofte, Denmark

Edward A. Dennis
University of California-San Diego
La Jolla, CA

Edward M. De Robertis
University of California
Los Angeles, CA

Rik Derynck
University of California
San Francisco, CA

William N. Drohan
American Red Cross
Rockville, MD

John H. Elder
Research Foundation of Scripps Clinic
La Jolla, CA

Charles H. Evans
National Cancer Institute
National Institutes of Health
Bethesda, MD

Gerald D. Fasman
Brandeis University
Waltham, MA

Carl M. Feldherr
University of Florida
College of Medicine
Gainesville, FL

John H. Fessler
University of California
Los Angeles, CA

Richard Firtel
Center for Molecular Genetics
University of California-San Diego
La Jolla, CA

Donald A. Flachman
Cornell University Medical College
New York, NY

Ian Gibbons
Kewalo Laboratory
Honolulu, HI

David W. Golde
Memorial Sloan Kettering Cancer Center
New York, NY

Ira D. Goldfine
Mt. Zion Hospital and Medical Center
San Francisco, CA

Eugene Goldwasser
University of Chicago
Chicago, IL

Curtis C. Harris
National Cancer Institute
National Institutes of Health
Bethesda, MD

Mark R. Haussler
University of Arizona College of Medicine
Tucson, AZ

Norman B. Hecht
Tufts University
Medford, MA

Brian Herman
University of North Carolina
Chapel Hill, NC

Harvey Herschman
University of California
Los Angeles, CA

Richard A. Houghten
Torrey Pines Institute for Molecular Studies
San Diego, CA

R. Colin Hughes
National Institute for Medical Research
London, United Kingdom

Tony Hunter
Salk Institute
San Diego, CA

Maria Imachenetsky
Universidad de Concepcion
Concepcion, Chile

Gary R. Jacobson
Boston University
Boston, MA

Gary L. Johnson
National Jewish Medical Center
Denver, CO

Michael Klagsbrun
The Children's Hospital
Harvard Medical School
Boston, MA

Jane B. Lian
University of Massachusetts Medical Center
Worcester, MA

Marc E. Lippman
Lombardi Cancer Center
Georgetown University
Washington, DC

Bruce E. Magun
School of Medicine
Oregon Health Science University
Portland, OR

Harold L. Moses
Vanderbilt University School of Medicine
Nashville, TN

Marit Nilsen-Hamilton
Iowa State University
Ames, IA

Anthony W. Norman
University of California
Riverside, CA

Dale L. Oxender
Warner-Lambert Company
Ann Arbor, MI

Richard G. Painter
University of Texas Health Center
Tyler, TX

Roger Parent
King's College
London, United Kingdom

Sheldon Penman
Massachusetts Institute of Technology
Cambridge, MA

Paul F. Pilch
Boston University School of Medicine
Boston, MA

Archie W. Prestayko
Liphomed
Rosemont, IL

Phillips W. Robbins
Massachusetts Institute of Technology
Cambridge, MA

Gideon A. Rodan
Merck Sharp & Dohme Research Labs
West Point, PA

Russell Ross
University of Washington, Seattle, WA

Milton H. Saier
University of California-San Diego
La Jolla, CA

Alan R. Sattiel
Parke-Davis
Ann Arbor, MI

Eric M. Shooter
Stanford University School of Medicine
Stanford, CA

Justin Silver
Hadassan Medical Organization
Kiryat Hadassah
Jerusalem, Israel

Robert H. Singer
University of Massachusetts Medical School
Worcester, MA

Gail E. Sonenshein
Boston University Medical School
Boston, MA

Thomas C. Spelsberg
Mayo Clinic and Graduate School of Medicine
Rochester, MN

Eric J. Stanbridge
University of California-Irvine College of Medicine
Irvine, CA

E. Richard Stanley
Albert Einstein College of Medicine
Bronx, NY

Donald F. Steiner
University of Chicago
Chicago, IL

Charles D. Stiles
Harvard Medical School
Boston, MA

Marvin L. Tanzer
University of Connecticut Health Center
Farmington, CT

Steven L. Teitelbaum
Jewish Hospital at Washington University Medical Center
St. Louis, MO

Jean Paul Thery
Laboratoire de Physiopathologie du Développement
CNRS - ENS
Paris, France

George Todaro
Fred Hutchinson Cancer Research Center
Seattle, WA

Milan R. Uskoković
Hoffman-La Roche Inc
Nutley, NJ

Klaus Von Der Mark
MPG Gruppe Rheumatologie/Bindegewebsforschung
Erlangen, Germany

D. Martin Watterson
Vanderbilt University
Nashville, TN

Sherman Weissman
Yale University School of Medicine
New Haven, CT

Karel W.A. Wirtz
State University of Utrecht
Utrecht, Netherlands

Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by Wiley-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, 0730-2312/92 \$00.50 + .25.

Journal of Cellular Biochemistry (ISSN 0730-2312) is published monthly by Wiley-Liss, Inc., a division of John Wiley & Sons, Inc., 605 Third Avenue, New York, NY 10158-0012. **Send subscription inquiries to:** John Wiley & Sons, Inc., Subscription Department, 9th Floor, 605 Third Avenue, New York, NY 10158 (212) 850-6543.

Advertising Inquiries should be addressed to Roberta Frederick, Advertising Sales Manager, Wiley-Liss, Inc., 605 Third Avenue, New York, NY 10158-0012, (212) 850-8832.

Subscription Price: Volumes 48, 49, and 50 (12 issues), plus Supplement 16 (9 volumes), 1992: \$1,036 in US; \$1,231 outside US. **Special Personal Subscription Rate:** \$95 in US; \$155 outside US. (Individual price does not include Supplements.) All subscriptions outside the U.S. will be sent by air. Payment must be made in US dollars drawn on a US bank. **Change of Address:** Please forward to the subscriptions address listed above six weeks prior to move; enclose present mailing label with change of address. **Claims for Missing Issues:** Claims for undelivered copies will be accepted only after the following issue has been received. Please enclose a copy of the mailing label or cite your subscriber reference number in order to expedite handling. Missing copies will be supplied when losses have been sustained in transit and where reserve stock permits. Send claims to John Wiley & Sons, Inc., Customer Service, 605 Third Avenue, New York, NY 10158. If claims are not resolved satisfactorily, please write to Susan Malawski, Director, Subscriptions Fulfillment and Distribution, John Wiley & Sons, Inc., 605 Third Avenue, New York, NY 10158. **Cancellations:** Subscription cancellations will not be accepted after the first issue has been mailed. **Postmaster:** Send address changes to **Journal of Cellular Biochemistry**, Susan Dorato, Subscription Fulfillment and Distribution, John Wiley & Sons, Inc., 605 Third Avenue, New York, NY 10158.

Indexed by: Current Contents/Life Sciences • Science Citation Index • Scisearch • Chemical Abstracts • Index Medicus • BIOSIS Data Base • Excerpta Medica • Information Retrieval, Ltd. • Cambridge Scientific Abstracts • Institute for Scientific Information-Soviet Union • Current Opinion in Orthopedics • Current Opinion in Pediatrics • Current Opinion in Cell Biology • Current Opinion in Rheumatology • Reference Update.

Printed in the United States of America. Copyright © 1992 Wiley-Liss, Inc.

This journal is printed on acid-free paper.