

## EXECUTIVE EDITOR

Philip L. Bernstein  
 phone: (212) 327-8575  
 fax: (212) 327-8511  
 email: jem@rockefeller.edu

## EDITORS

Alan N. Houghton  
 Maclyn McCarty  
 William A. Muller  
 Carl Nathan  
 Michel Nussenzweig  
 David N. Posnett  
 Ralph Steinman  
 Sasha Tarakhovskiy

## ADVISORY EDITORS

Paul Allen  
 Frederick W. Alt  
 K. Frank Austen  
 Marco Baggiolini  
 Jacques Banchemereau  
 Albert Bendelac  
 Michael J. Bevan  
 Christian Bogdan  
 Thierry Boon  
 Thomas J. Braciale  
 Patrick Brennan  
 Hal E. Broxmeyer  
 Yongwon Choi  
 Robert L. Coffman  
 Suzanne Cory  
 Keith Elkon  
 Victor H. Engelhard  
 Anthony S. Fauci  
 Douglas T. Fearon  
 Vincent A. Fischetti  
 B.J. Fowlkes  
 John Fraser  
 Shu Man Fu  
 Stephen J. Galli  
 Ronald N. Germain

Laurie H. Glimcher  
 Pierre Golstein  
 Christopher Goodnow  
 Siamon Gordon  
 Emil C. Gotschlich  
 Sergio Grinstein  
 Pierre A. Henkart  
 David D. Ho  
 Richard J. Hodes  
 Tasuku Honjo  
 Kayo Inaba  
 John W. Kappler  
 Elliott Kieff  
 Tadimitsu Kishimoto  
 Seymour J. Klebanoff  
 Richard A. Koup  
 Lewis L. Lanier  
 Antonio Lanzavecchia  
 Michael J. Lenardo  
 Richard M. Locksley  
 Lucio Luzzatto  
 H.R. MacDonald  
 Linda MacPhail  
 Bernard Malissen  
 Philippa Marrack

Diane Mathis  
 Lloyd F. Mayer  
 Ira Mellman  
 Louis H. Miller  
 John J. Monaco  
 John P. Moore  
 Victor Nussenzweig  
 Anne O'Garra  
 Michael B.A. Oldstone  
 Peter Parham  
 William E. Paul  
 Roger M. Perlmutter  
 Bice Perussia  
 Hidde Ploegh  
 Daniel A. Portnoy  
 Klaus Rajewsky  
 Anjana Rao  
 Jeffrey Ravetch  
 Westley H. Reeves  
 A.B. Rickinson  
 Steven Rosen  
 David H. Sachs  
 Lawrence E. Samelson  
 Matthew D. Scharff  
 Hans Schreiber

Gerold Schuler  
 Robert A. Seder  
 Rafick-P. Sékaly  
 Charles N. Serhan  
 Stephen Shaw  
 Alan Sher  
 Ken D. Shortman  
 Roy L. Silverstein  
 Alfred Singer  
 Jonathan Sprent  
 Susan Swain  
 Eng M. Tan  
 Giorgio Trinchieri  
 Herbert Virgin  
 Harald von Boehmer  
 Sharon M. Wahl  
 Arthur Weiss  
 Raymond M. Welsh  
 Zena Werb  
 Linda S. Wicker  
 Ian Wilson  
 Henry J. Winn  
 Samuel D. Wright  
 Wayne M. Yokoyama

# THE JOURNAL OF EXPERIMENTAL MEDICINE

## EDITORIAL ASSISTANTS

Meta Wyss • Isabelle Brisson • Vinay Murthy  
 The Rockefeller University Press, 1114 First Avenue, New York, NY 10021  
 phone: (212) 327-8575  
 fax: (212) 327-8511  
 email: jem@rockefeller.edu

## COPYEDITING AND PRODUCTION

Tina M. Hoynash • Ann Flower-DePaolo • Henry Chou • Reena Thomas

## PRODUCTION MANAGER

Suzanne M. Runyan

## ELECTRONIC PUBLISHING MGR

Robert J. O'Donnell



Published semimonthly by  
 The Rockefeller University Press  
 www.jem.org

The appearance of the code at the bottom of the first page of an article in this journal indicates that the Publisher gives consent for individual copies of that article to be made for personal or internal use. This consent is given on the condition, however, that—for copying beyond the limited quantities permitted under Sections 107 or 108 of the U.S. Copyright Law—the copier pay the stated per-copy fee, for this journal \$5.00 per article, through the Copyright Clearance Center, Inc., 222 Rosewood Drive, Danvers, MA 01923, Tel.: 978-750-8400, a nonprofit organization. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale.

*The Journal of Experimental Medicine* (ISSN 0022-1007) is published semimonthly for \$615 (outside USA/Canada add \$160 net postage) by The Rockefeller University Press, 1114 First Avenue, New York, NY 10021. Periodical postage paid at New York, NY and additional mailing offices. POSTMASTER: Send address changes to *The Journal of Experimental Medicine*, Circulation Department, The Rockefeller University Press, 1114 First Avenue, New York, NY 10021.

Copyright © 2001 by The Rockefeller University Press, 1114 First Avenue, New York, NY 10021.