

CLINICAL AND DIAGNOSTIC LABORATORY IMMUNOLOGY

VOLUME 10 • SEPTEMBER 2003 • NUMBER 5

Susan F. Plaeger, Editor in Chief (2008)
*National Institute of Allergy and
Infectious Diseases*

Harry E. Prince, Editor (2008)
Focus Technologies

Jeffrey L. Rossio, Editor (2006)
National Cancer Institute at Frederick

Steven C. Specter, Editor (2006)
University of South Florida

George C. Tsokos, Minireview Editor
(2005)

Walter Reed Institute of Research

Belinda Yen-Lieberman, Editor (2008)
Cleveland Clinic Foundation

EDITORIAL BOARD

Richard J. Ablin (2004)
Thomas S. Alexander (2003)
Burt E. Anderson (2005)
Laure Aurelian (2004)
Kenneth D. Beaman (2003)
Laurent Belec (2003)
Mauro Bendinelli (2005)
Deborah L. Birx (2005)
William Borkowsky (2003)
Günter Brittinger (2004)
Harald Bruessow (2004)
C. Lynne Burek (2003)
Donald E. Burgess (2004)
Donald E. Campbell (2003)
William P. Cheevers (2005)
James G. Christenson (2004)
Mario S. Clerici (2004)
Susan E. Coffin (2005)
Stanley Cohen (2004)
Linda Cook (2003)
Karen M. Cost (2004)
Randy Q. Cron (2004)
Peggy Crowley-Nowick (2003)
Coleen K. Cunningham (2005)
Charlote Cunningham-
Rundles (2003)
Susanna Cunningham-
Rundles (2004)
Andrés de la Concha-Bermejillo
(2005)
Thomas N. Denny (2005)
Barbara Detrick (2004)
Peter Devine (2003)
Paula Dore-Duffy (2003)
J. Stephen Dumler (2005)
Garth Ehrlich (2005)
Toby K. Eisenstein (2005)
Donna L. Farber (2004)
Peter J. Felsburg (2003)
John Ferbas (2005)
Susan A. Fiscus (2004)

Thomas A. Fleisher (2004)
Michael M. Frank (2003)
Herman Friedman (2004)
Patricia C. Giclas (2004)
Bruce C. Gilliland (2003)
Curt A. Gleaves (2003)
James A. Goeken (2003)
Karl Goodkin (2004)
Michael Gottlieb (2004)
Richard L. Gregory (2003)
Guy Grimsley (2003)
Robert G. Hamilton (2003)
Ronald J. Harbeck (2004)
John Hay (2003)
Wen-Zhe Ho (2004)
Richard L. Hodinka (2004)
Christie A. Holland (2003)
Steven M. Holland (2005)
Allen L. Honeyman (2004)
Thomas J. Inzana (2004)
Jonathan M. Kagan (2004)
Naynesh R. Kamani (2003)
Mariana J. Kaplan (2005)
Neil E. Kay (2003)
Michael Kirschfink (2004)
Birgit Kovacs (2004)
Danuta Kozbor (2005)
Steven A. Krillis (2004)
Paul A. Kroghstad (2005)
Renu B. Lal (2005)
Parviz Lalezari (2003)
Alan L. Landay (2004)
Janet Lathey (2003)
Michael M. Lederman (2005)
Mary S. Leffell (2003)
Diane S. Leland (2004)
Stamatis-Nick C. Lioussis (2005)
Virginia M. Litwin (2004)
Steven A. Lobel (2003)
David M. Lysterly (2005)
Joseph B. Margolick (2004)

Lukas Matter (2003)
Elizabeth McFarland (2003)
Peter G. Medveczky (2003)
Gerald C. Miller (2003)
Jeanne P. Mitchell (2005)
Dimitri Monos (2005)
Anna-Barbara Moscicki (2003)
Donna Murasko (2004)
Moon H. Nahm (2003)
Madhavan Nair (2003)
Mayumi Nakagawa (2004)
Jacob B. Natvig (2003)
Jeanne M. Novak (2004)
Hans D. Ochs (2005)
Itzhak Ofek (2004)
Maurice R. G. O'Gorman (2005)
Ko Okumura (2003)
James M. Oleske (2005)
Emilia L. Oleszak (2003)
Cynthia M. Otto (2005)
Savita Pahwa (2005)
Paul E. Palumbo (2004)
Bharat S. Parekh (2003)
Charles Pavia (2003)
Helene M. A. Paxton (2004)
Ronald Penny (2004)
Guillermo I. Perez-Perez (2003)
Philip K. Peterson (2004)
John M. Petitto (2003)
Catherine A. Phillips (2004)
David M. Pinson (2005)
Chris D. Platsoucas (2003)
Didier Raoult (2003)
James M. Reuben (2004)
Peter J. Rice (2005)
Norbert J. Roberts (2003)
Frank G. Rodgers (2004)
Noel R. Rose (2003)
Helene F. Rosenberg (2005)
Howard Rosenblatt (2003)
Ronald F. Schell (2003)

John L. Schmitz (2005)
Robert T. Schooley (2003)
Peter H. Schur (2003)
Stanley A. Schwartz (2004)
John L. Sever (2004)
Petros P. Sfikakis (2004)
William T. Shearer (2003)
Leslie E. Silberstein (2003)
John Sleasman (2003)
Ralph Snyderman (2003)
Kirk Sperber (2005)
Jonathon Spergel (2005)
Celsa A. Spina (2003)
Kirsten St. George (2004)
E. Richard Stiehm (2003)
Kathleen E. Sullivan (2004)
Caroline T. Tiemessen (2003)
Mary Tompkins (2003)
Wayne A. Tompkins (2003)
Maria Tsokos (2004)
Christel H. Uittenbogaart (2005)
Dimitrios Vassilopoulos (2005)
Charles S. Via (2004)
Gabriel Virella (2004)
Girish N. Vyas (2004)
Mark A. Wainberg (2003)
Richard Ward (2005)
Nabila M. Wassef (2004)
Adriana Weinberg (2003)
Marc E. Weksler (2003)
Caroline C. Whitacre (2003)
Theresa L. Whiteside (2004)
Dan L. Wiedbrauk (2005)
Craig Wilson (2005)
Jerry A. Winkelstein (2004)
Henry K. Wong (2005)
M. Mitsuo Yokoyama (2004)
Dorothea Zucker-Franklin (2003)
Burton Zweiman (2003)

Samuel Kaplan, Chairman, Publications Board
Anastacia Thomasian, Production Editor

Linda M. Illig, Director, Journals
Yvonne Finnegan, Assistant Production Editor

Clinical and Diagnostic Laboratory Immunology (ISSN 1071-412X), a publication of the American Society for Microbiology (ASM), 1752 N St., N.W., Washington, DC 20036-2904, is devoted to the study of all aspects of human immune response assessment, including indications for testing, methods, and interpretation of results. Instructions to authors are published in the January issue each year; reprints are available from the editors and the Journals Department. *Clinical and Diagnostic Laboratory Immunology* is published bimonthly, one volume (6 issues) per year. Nonmember print subscription prices (per year) are: \$274, U.S.; \$282, Canada (plus 7% GST, or 7% GST + 8% HST where applicable); \$294, Europe; \$301, Latin America; \$303, rest of world. Member print subscription prices (per year) are: \$56, U.S.; \$63, Canada (plus 7% GST, or 7% GST + 8% HST where applicable); \$76, Europe; \$81, Latin America; \$83, rest of world. Single copies are: \$50, nonmember; \$25, member (Canadians add 7% GST, or 7% GST + 8% HST where applicable). For prices of electronic versions, contact the Subscriptions Unit, ASM. Correspondence relating to subscriptions, defective copies, missing issues, and availability of back issues should be directed to the Subscriptions Unit, ASM; correspondence relating to reprint orders should be directed to the Reprint Order Unit, ASM; and correspondence relating to disposition of submitted manuscripts, proofs, and general editorial matters should be directed to the Journals Department, American Society for Microbiology, 1752 N St., N.W., Washington, DC 20036-2904. Phone: (202) 737-3600.

Claims for missing issues from residents of the United States, Canada, and Mexico must be submitted within 3 months after publication of the issues; residents of all other countries must submit claims within 6 months of publication of the issues. Claims for issues missing because of failure to report an address change or for issues "missing from files" will not be allowed.

Periodicals postage paid at Washington, DC 20036, and at additional mailing offices.

POSTMASTER: Send address changes to *Clinical and Diagnostic Laboratory Immunology*, ASM, 1752 N St., N.W., Washington, DC 20036-2904.

Made in the United States of America. Printed on acid-free paper. DOI: 10.1128/CDLI.10.5.2003 CODEN: CDIMEN

Copyright © 2003, American Society for Microbiology. All Rights Reserved.

The code at the top of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal use or for personal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per-copy fee through the Copyright Clearance Center, Inc., 222 Rosewood Drive, Danvers, MA 01923, for copying beyond that permitted by Sections 107 and 108 of the U.S. Copyright Law. 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.