

# CLINICAL AND VACCINE IMMUNOLOGY

(formerly Clinical and Diagnostic Laboratory Immunology)

VOLUME 13 • SEPTEMBER 2006 • NUMBER 9

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

**Thomas S. Alexander**, *Minireview Editor* (2010)  
*Summa Health System*

**Richard L. Hodinka**, *Editor* (2011)  
*Children's Hospital of Philadelphia*

**Stanley A. Plotkin**, *Editor* (2010)  
*University of Pennsylvania and Sanofi Pasteur*

**Harry E. Prince**, *Editor* (2008)  
*Focus Diagnostics*

**Kathleen E. Sullivan**, *Editor* (2008)  
*Children's Hospital of Philadelphia*

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

## EDITORIAL BOARD

**Richard J. Ablin** (2007)  
**Rafi Ahmed** (2008)  
**Laure Aurelian** (2007)  
**Yu Chen Barrett** (2007)  
**Kenneth D. Beaman** (2006)  
**Laurent Beléc** (2006)  
**Deborah L. Birx** (2008)  
**Vincent R. Bonagura** (2007)  
**William Borkowsky** (2007)  
**Donald E. Burgess** (2007)  
**James G. Christenson** (2007)  
**Mario S. Clerici** (2007)  
**Stanley Cohen** (2007)  
**Linda Cook** (2007)  
**Randy Q. Cron** (2007)  
**Susanna Cunningham-Rundles** (2008)  
**Barbara Detrick** (2007)  
**Peter L. Devine** (2006)  
**Paula Dore-Duffy** (2006)  
**Kathryn M. Edwards** (2008)  
**Erdal Erol** (2008)  
**Donna L. Farber** (2007)  
**Curt A. Gleaves** (2006)  
**James A. Goeken** (2007)

**Richard L. Gregory** (2007)  
**Guy Grimsley** (2006)  
**Neal A. Halsey** (2008)  
**Robert G. Hamilton** (2007)  
**Wayne Hogrefe** (2006)  
**Allen L. Honeyman** (2007)  
**Robin Huebner** (2008)  
**Thomas J. Inzana** (2007)  
**Stefan H. E. Kaufmann** (2008)  
**Richard Kornbluth** (2006)  
**Birgit Kovacs** (2007)  
**Paul A. Krogstad** (2008)  
**Janet L. Lathey** (2006)  
**Diane S. Leland** (2007)  
**Stamatis-Nick C. Lioussis** (2008)  
**Virginia M. Litwin** (2007)  
**Steven A. Lobel** (2007)  
**Clifford A. Lowell** (2007)  
**Gailen D. Marshall** (2006)  
**Lukas Matter** (2007)  
**Elizabeth J. McFarland** (2006)  
**Peter G. Medveczky** (2006)  
**Howard J. Meyerson** (2008)

**Gerald C. Miller** (2006)  
**Richard P. Morrison** (2007)  
**Anna-Barbara Moscicki** (2006)  
**Moon H. Nahm** (2006)  
**Madhavan P. Nair** (2006)  
**Paul Ofit** (2008)  
**Emilia L. Oleszak** (2006)  
**Walter Orenstein** (2008)  
**Paul E. Palumbo** (2007)  
**Christopher J. Papasian** (2007)  
**Bharat S. Parekh** (2006)  
**Charles Pavia** (2006)  
**Helene Paxton** (2008)  
**Guillermo I. Perez-Perez** (2006)  
**John M. Petitto** (2006)  
**David M. Pinson** (2008)  
**Chris D. Platsoucas** (2006)  
**Didier A. Raoult** (2006)  
**Peter J. Rice** (2008)  
**Harriet L. Robinson** (2008)  
**Noel R. Rose** (2006)  
**Helene F. Rosenberg** (2008)

**Howard M. Rosenblatt** (2006)  
**Philippe J. Sansonetti** (2008)  
**Ronald F. Schell** (2007)  
**Joseph D. Schwartzman** (2007)  
**Jane F. Seward** (2008)  
**Petros P. Sfikakis** (2007)  
**Fergus Shanahan** (2007)  
**Lawrence K. Silbart** (2008)  
**John W. Sleasman** (2006)  
**Kirk Sperber** (2008)  
**Kirsten St. George** (2007)  
**Jose A. Stoute** (2008)  
**Caroline T. Tiemessen** (2006)  
**Mary B. Tompkins** (2006)  
**Maria Tsokos** (2007)  
**Christel H. Uittenbogaart** (2008)  
**Thomas W. Vahlenkamp** (2006)  
**Dimitrios Vassilopoulos** (2008)  
**Charles S. Via** (2007)  
**Richard Ward** (2005)  
**Nabila M. Wassef** (2007)  
**W. Ray Waters** (2007)  
**Adriana Weinberg** (2006)

**Samuel Kaplan**, *Chairman, Publications Board*      **Linda M. Illig**, *Director, Journals*  
**Charles Brown**, *Production Editor*      **Michael E. Lerman**, *Assistant Production Editor*

*Clinical and Vaccine Immunology* (ISSN 1556-6811), 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 the human immune response, including those to vaccines and infectious agents. Instructions to authors are published in the January issue each year; reprints are available from the editors and the Journals Department. *Clinical and Vaccine Immunology* is published monthly, one volume (12 issues) per year. Nonmember print subscription prices (per year) are: \$371, U.S.; \$378, Canada (plus 7% GST, or 7% GST + 8% HST where applicable); \$389, Europe; \$396, Latin America; \$397, rest of world. Member print subscription prices (per year) are: \$76, U.S.; \$83, Canada (plus 7% GST, or 7% GST + 8% HST where applicable); \$94, Europe; \$101, Latin America; \$102, rest of world. Single copies are: \$50, nonmember; \$30, 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 Vaccine 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/CVI.13.9.2006 CODEN: CVILA6

Copyright © 2006 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.