



EDITOR-IN-CHIEF: Robert R. Rich

MANAGING EDITOR: M. Michele Hogan

PUBLICATION DIRECTOR: Kaylene J. Kenyon

DEPUTY EDITORS

Barbara E. Bierer

Jeremy M. Boss

Pamela J. Fink

Jeffrey A. Frelinger

Jerry R. McGhee

Robert L. Modlin

Hidde L. Ploegh

Linda A. Sherman

Thomas F. Tedder

SECTION EDITORS

Amnon Altman

A. Dean Befus

Joan W. Berman*

Francisco Borrego

Melissa A. Brown

Esteban Celis

Thomas C. Chiles

Sean P. Colgan

Marco Colonna*

Daniel H. Conrad

Andrea M. Cooper*

Alison Finnegan

Patricia Fitzgerald-Bocarsly*

Thomas F. Gajewski

Nicholas R. J. Gascoigne

Wayne W. Hancock

Cory M. Hogaboam

Gary B. Huffnagle*

David A. Hume

Gary W. Hunninghake

Christopher A. Hunter

Stephen C. Jameson

Dragana Janković

Jay K. Kolls

Paul Kubes

Alan L. Landay

Klaus Ley

Paul E. Love

Jean S. Marshall

Carolyn Mold

Penelope A. Morel

David M. Mosser

Christian Munz

Peter J. Murray

Cathryn R. Nagler

Luke A. J. O'Neill

Suzanne Ostrand-Rosenberg

Anna Karolina Palucka

David W. Pascual*

Jeffrey L. Platt

Bali Pulendran

Michael K. Racke

Mohamed H. Sayegh

Harry W. Schroeder, Jr.

Liisa K. Selin

David V. Serreze

Hao Shen

Joyce C. Solheim

Herman F. Staats

Steffen Stenger

William Stohl

Walter J. Storkus*

Luc Van Kaer

Charles S. Via

Matthias G. von Herrath

Christopher M. Walker

David L. Woodland*

Thomas A. Wynn*

Teizo Yoshimura

Juan Carlos Zúñiga-Pflücker

*Term as Section Editor ends August 31, 2006.

ASSOCIATE EDITORS

Toru Abo
Edward Abraham
Adam J. Adler
Luciano Adorini
Devendra K. Agrawal
Shizuo Akira
Carla Jo Aldrich
Hyadar Ali
Julio Aliberti
Rui Appelberg
Alfred Ayala
Alan G. Baxter
Gabrielle T. Belz
Cornelia C. Bergmann
Avinash Bhandoola
Holly H. Birdsall
Christian Bogdan
Zacharie Brahmi
Stefan Brocke
Randy Brutkiewicz
James J. Campbell
Francis R. Carbone
Marco A. Cassatella
David M. Center
Andrea Cerutti
Lucienne Chatenoud
Lieping Chen
Youhai H. Chen
Bobby J. Cherayil
Anita S.-F. Chong
Edward J. Collins
Mario P. Colombo
David B. Corry
Randy Q. Cron
Tyler J. Curiel
Mohammed Daha
George S. Deepe, Jr.
Frank R. DeLeo
Eric Denkers
Alexander L. Dent
Raffaële De Palma

David Dombrowicz
George R. Dubyak
Peter B. Ernst
Mark A. Exley
Giamila Fantuzzi
David R. Fitzpatrick
David M. Frucht
Dmitry I. Gabrilovich
Ricardo T. Gazzinelli
Daniel E. Geraghty
Gabriele Grunig
Hamida Hammad
Laura Haynes
Alain Haziot
You-Wen He
William H. Hildebrand
Robert J. Hogan
Dieter Kabelitz
Pawel Kalinski
Mariana J. Kaplan
Mark Kaplan
Michael P. Keane
Liwu Li
Peter Linsley
Robin G. Lorenz
Joaquín Madrenas
Alberto Mantovani
Larry S. McDaniel
Steven B. Mizel
Atsushi Mizoguchi
Mansour Mohamadzadeh
Bethany B. Moore
B. Paul Morgan
Muriel Moser
William J. Murphy
Christopher C. Norbury
Giorgio Parmiani
Seth H. Pincus
Hanspeter Pircher
Stephen B. Pruetz
Paolo Puccetti

Jennifer A. Punt
Raghavanpillai Raju
Barbara Rehermann
Mercedes Rincón
Paul F. Robbins
John R. Rodgers
Nikolaus Romani
Noel Rose
John J. Ryan
Shimon Sakaguchi
Padmini Salgame
Stephen P. Schoenberger
Luis J. Sigal
Mark K. Slifka
Silvano Sozzani
Pramod Srivastava
Gary Starling
Freda K. Stevenson
Georg Stingl
Jill Suttles
Alexander J. Szalai
Wayne R. Thomas
David F. Tough
David M. Underhill
Jos A. G. van Strijp
Stanislav Vukmanovic
Hermann Wagner
Craig M. Walsh
Ji Ming Wang
Stephen G. Ward
Hartmut Wekerle
Andrew D. Wells
Michael A. West
Ifor R. Williams
Bridget S. Wilson
Reen Wu
Osamu Yoshie
Jian Zhang
Steven F. Ziegler

THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS

OFFICERS

PRESIDENT

Lewis L. Lanier

VICE PRESIDENT

Olivera J. Finn

SECRETARY-TREASURER

Steven J. Burakoff

PAST PRESIDENT

Paul M. Allen

COUNCILLORS

Arthur Weiss Betty A. Diamond Jeffrey A. Frelinger Leslie J. Berg

EXECUTIVE DIRECTOR

M. Michele Hogan

PUBLICATIONS COMMITTEE

CHAIRPERSON: Judy M. Teale

Janice S. Blum

Michael P. Cancro

Victor H. Engelhard

Stephen C. Jameson

Yvonne Paterson

Arlene H. Sharpe

Carol F. Webb



THE JOURNAL OF
IMMUNOLOGY

Information for Subscribers

The Journal of Immunology was first published in 1916. It is currently published twice per month by The American Association of Immunologists, Inc.

Annual Subscription Rates: See <http://www.jimmunol.org/subscriptions/> for our subscription rates.

Change of Address: AAI member subscribers must notify AAI 60 days in advance. Non-member subscribers must notify *The Journal of Immunology* 60 days in advance of their changes. AAI is not responsible for undeliverable issues. Duplicates can be obtained, if available, from *The Journal of Immunology* at the regular price of single issues.

New Subscriptions and Renewals: New subscriptions and renewals begin January 1, and expire one year later.

AAI Member Subscribers: For questions regarding receipt of *The Journal of Immunology* as part of your membership, please contact: AAI Membership Office, 9650 Rockville Pike, Bethesda, MD 20814-3994; phone 301-634-7195; fax 301-634-7733; email: members@aai.org.

Microfilm: For availability, contact: *The Journal of Immunology*, 9650 Rockville Pike, Bethesda, MD 20814-3994.

Reprints: Reprints of individual articles are available only from authors.

CADMUS PROFESSIONAL COMMUNICATIONS, INC.

COLUMBIA, MARYLAND 21046 U.S.A.