

EDITOR IN CHIEF (2015)

Aaron P. Mitchell
Carnegie Mellon University,
Pittsburgh, Pa.

EDITORS

N. Louise Glass, *Editor* (2016)
University of California,
Berkeley, Calif.

Joseph Heitman, *Editor* (2012)
Duke University Medical Center,
Durham, N.C.

Patrick Keeling, *Editor* (2016)
University of British Columbia,
Vancouver, B.C., Canada

Michael Lorenz, *Editor* (2014)
University of Texas Medical School,
Houston, Tex.

Sabeeha Merchant, *Editor* (2013)
University of California,
Los Angeles, Calif.

Margaret Phillips, *Editor* (2015)
University of Texas Southwestern
Medical Center, Dallas, Tex.

L. David Sibley, *Editor* (2016)
Washington University School of Medicine,
St. Louis, Mo.

Meng-Chao Yao, *Editor* (2016)
Academia Sinica, Taipei, Taiwan

Thomas E. Shenk, *Chairman, Publications Board*

Barbara M. Goldman, *Director, Journals*

Noel Y. Lin, *Production Editor*

Ellie Ghatineh, *Assistant Production Editor*

EDITORIAL BOARD

J. Andrew Alspaugh (2013)
James B. Anderson (2014)
David R. Andes (2013)
Brenda J. Andrews (2012)
Alex Andrianopoulos (2012)
Yong-Sun Bahn (2012)
James D. Bangs (2014)
Vivian Bellofatto (2013)
Deborah Bell-Pedersen (2014)
Richard Bennett (2012)
Judith Berman (2012)
Stephen M. Beverley (2012)
Ralph Bock (2012)
Alexandra Brand (2013)
Alistair J. P. Brown (2012)
Geraldine Butler (2012)
Enrico Cabib (2014)
David A. Campbell (2012)
Dee Carter (2014)
Kathleen Collins (2012)
Luis Corrochano (2012)
Leah E. Cowen (2013)
Brendan Crabb (2013)
Robert A. Cramer (2013)
George A. Cross (2012)
M. Joan Curcio (2014)
Melanie T. Cushion (2013)
Dana Davis (2012)
Maurizio Del Poeta (2014)
Christian Doerig (2012)
Tamara L. Doering (2013)
Marta Feldmesser (2012)
Michael Ferguson (2013)
Mark Field (2012)
Scott G. Filler (2014)
Jacek Gaertig (2014)
Tim Galitski (2012)
David M. Geiser (2014)
Hagai Ginsburg (2012)
Amy Gladfelder (2012)
Scott E. Gold (2012)
Daniel E. Goldberg (2013)
William E. Goldman (2013)
Arthur Günzl (2012)
Steve Haase (2012)
Stephen L. Hajduk (2013)

Kasturi Haldar (2013)
Steven Harris (2013)
Alfredo Herrera-Estrella (2014)
Kent L. Hill (2013)
Charles Hoffman (2012)
Deborah A. Hogan (2014)
Tony Holder (2012)
Saul M. Honigberg (2013)
Barbara J. Howlett (2014)
Christina Hull (2014)
Alexander Idnurm (2014)
Tim James (2012)
Guilhem Janbon (2012)
Douglas I. Johnson (2012)
Patricia J. Johnson (2012)
Alan R. Kimmel (2012)
Nicole King (2013)
Bruce K. Klein (2013)
Frans M. Klis (2014)
Lawrence Klobutcher (2014)
James B. Konopka (2014)
James W. Kronstad (2012)
Anuj Kumar (2014)
Laura F. Landweber (2012)
Yin-Won Lee (2012)
Yong-Hwan Lee (2012)
David Levin (2014)
Xiaorong Lin (2012)
Yi Liu (2013)
Jennifer K. Lodge (2013)
John M. Logsdon (2013)
William F. Loomis (2012)
John M. Lopes (2014)
Keith Matthews (2012)
Gregory S. May (2014)
Robin C. May (2013)
John McCusker (2012)
Maria Mittag (2012)
Michelle Momany (2012)
Kevin Morano (2012)
Joachim Morschhäuser (2014)
Scott Moye-Rowley (2014)
Carol A. Munro (2013)
Eleftherios Mylonakis (2013)
Aaron M. Neiman (2014)
Angelika A. Noegel (2012)

Minou Nowrouzian (2013)
Stephen A. Osmani (2012)
Marilyn Parsons (2014)
John R. Perfect (2013)
Matthew Posewitz (2012)
Simon Prochnik (2012)
Saul Purton (2012)
Laurie K. Read (2013)
Nick D. Read (2012)
Judith C. Rhodes (2013)
Jean-David Rochaix (2012)
David S. Roos (2013)
Laura Rusche (2013)
Matthew S. Sachs (2014)
Winfield Sale (2012)
Artur Scherf (2012)
Martin Schmidt (2012)
Thomas Seebeck (2012)
Carolyn D. Silflow (2012)
Larry Simpson (2013)
Upinder Singh (2012)
Jason E. Stajich (2012)
William J. Steinbach (2012)
Boris Striepen (2014)
Kenneth D. Stuart (2013)
Rosemary A. Stuart (2014)
Xin-zhuan Su (2014)
William J. Sullivan (2014)
Staffan Svärd (2012)
Kelly G. Tatchell (2014)
Dennis J. Thiele (2013)
Aaron Turkewitz (2014)
Buddy Ullman (2013)
Elisabetta Ullu (2014)
James G. Umen (2013)
Olivier Vallon (2014)
Andrew K. Vershon (2012)
Joseph M. Vinetz (2013)
Ping Wang (2014)
Gary Ward (2012)
Louis M. Weiss (2013)
Theodore White (2012)
Jin-Rong Xu (2013)
Jae-Hyuk Yu (2013)

Eukaryotic Cell (ISSN 1535-9786), a publication of the American Society for Microbiology (ASM), 1752 N Street, N.W., Washington, DC 20036-2904, is devoted to the study of lower eukaryotic microorganisms such as yeasts, fungi, algae, protozoa, and social amoebae.

Eukaryotic Cell became an online-only journal with Volume 7, Issue 1 (January, 2008). The final print issue was Volume 6, Issue 12 (December, 2007). Previous print ISSN: 1535-9778.

Instructions to Authors are no longer published in the first issue of the year but can be found at <http://ec.asm.org/site/misc/ifora.xhtml> and are updated throughout the year. *Eukaryotic Cell* is published monthly, one volume per year. For subscription prices, contact the Subscriptions Unit, ASM. Correspondence relating to author reprint orders should be directed to Author Billing/Reprints, 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.

doi:10.1128/EC.11.2.2012 CODEN: ECUEA2

Copyright © 2012, American Society for Microbiology. All Rights Reserved.

The code at the bottom 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.