

**EDITOR IN CHIEF (2017)**

**Roger J. Davis**  
*University of Massachusetts Medical School*

**EDITORS**

**Antony M. Carr**, *Editor* (2017)  
*University of Sussex*

**Myriam Gorospe**, *Editor* (2018)  
*National Institute on Aging*

**J. Wade Harper**, *Editor* (2018)  
*Harvard Medical School*

**David E. Levy**, *Editor* (2017)  
*New York University School of Medicine*

**Kristen W. Lynch**, *Editor* (2018)  
*University of Pennsylvania*

**Nicholas J. Proudfoot**, *Editor* (2018)  
*University of Oxford*

**B. Franklin Pugh**, *Editor* (2017)  
*Pennsylvania State University*

**Anjana Rao**, *Editor* (2017)  
*La Jolla Institute for Allergy & Immunology*

**Ali Shilatifard**, *Editor* (2017)  
*Stowers Institute for Medical Research*

**Jeremy W. Thorner**, *Minireview Editor*  
(2018)  
*University of California, Berkeley*

**Peter Tontonoz**, *Editor* (2016)  
*University of California, Los Angeles*

**André Veillette**, *Editor* (2018)  
*Institute de Recherches Cliniques de Montreal*

**Masayuki Yamamoto**, *Editor* (2017)  
*Tohoku University Graduate School of Medicine*

**Thomas E. Shenk**, *Chairman, Journals Board*

**Barbara M. Goldman**, *Director, Journals*

**Rebecca L. Zwadyk**, *Production Editor*

**Jeff Herring**, *Assistant Production Editor*

**EDITORIAL BOARD**

**Cory Abate-Shen** (15)  
**Peter D. Adams** (14)  
**Andrés Aguilera** (16)  
**Siddharth Balachandran** (15)  
**Kristin Baldwin** (15)  
**Marisa Bartolomei** (14)  
**Michelle C. Barton** (14)  
**Claudio Basilico** (15)  
**Christian Behrends** (15)  
**Anton Bennett** (14)  
**Eric J. Bennett** (15)  
**David Bentley** (15)  
**Bradley Bernstein** (15)  
**Alessandro Bianchi** (15)  
**Perry J. Blackshear** (15)  
**Benjamin J. Blencowe** (15)  
**Gerd A. Blobel** (15)  
**Johannes L. Bos** (16)  
**Emery Bresnick** (16)  
**Michael Bulger** (16)  
**Jorg Bungert** (15)  
**Stephen Buratowski** (15)  
**Michael Carey** (15)  
**Benoit Chabot** (14)  
**Debabrata Chakravarti** (16)  
**Navdeep Chandel** (16)  
**Ajay Chawla** (14)  
**Dipanjan Chowdhury** (15)  
**Bruce E. Clurman** (16)  
**Charles Cole** (14)  
**Jonathan A. Cooper** (16)  
**Jeffrey L. Corden** (15)  
**David Cortez** (15)  
**Martha Cyert** (15)  
**Chi V. Dang** (14)  
**Robert Darnell** (14)  
**Gregory David** (16)  
**Ann Dean** (15)  
**Thomas Decker** (16)  
**Titia de Lange** (14)  
**Luciano Di Croce** (15)  
**J. Alan Diehl** (16)  
**Jessica Downs** (14)  
**Michael Dyer** (16)  
**Brian Dynlacht** (16)  
**Martin Eilers** (15)  
**Robert N. Eisenman** (15)  
**Joaquin M. Espinosa** (15)  
**Gen-Sheng Feng** (14)  
**Gerardo Ferbeyre** (15)  
**Steven N. Fiering** (15)  
**Nicole Francis** (14)  
**Christopher Fraser** (16)  
**Xiang-Dong Fu** (14)  
**Akiyoshi Fukamizu** (16)

**Michael Garabedian** (16)  
**William T. Garrard** (15)  
**Donna George** (14)  
**Aaron Goodarzi** (16)  
**Eyal Gottlieb** (15)  
**Kathleen L. Gould** (14)  
**Lorraine J. Gudas** (16)  
**J. Silvio Gutkind** (15)  
**Steve Hahn** (15)  
**William C. Hahn** (15)  
**Michael Hampsey** (16)  
**Annick Harel-Bellan** (14)  
**Christine Hartmann** (15)  
**Nissim Hay** (15)  
**Scott Hiebert** (15)  
**Phillip W. Hinds** (15)  
**Alan Hinnebusch** (16)  
**Kazuhiko Igarashi** (15)  
**Anthony Imbalzano** (15)  
**David James** (14)  
**Gerard Karsenty** (15)  
**Andrius Kazlauskas** (16)  
**Michael Kladde** (14)  
**Andrew Koff** (16)  
**Philipp Korber** (16)  
**Alberto R. Kornblihtt** (14)  
**W. Lee Kraus** (16)  
**Robert Krauss** (14)  
**Guido Kroemer** (15)  
**Martin Kupiec** (14)  
**Siavash Kurdistani** (14)  
**Hitoshi Kurose** (16)  
**Andrew Lassar** (15)  
**Mitchell A. Lazar** (15)  
**Anthony Letai** (16)  
**Robert E. Lewis** (14)  
**Michael R. Lieber** (16)  
**Anning Lin** (16)  
**Jiandie Lin** (15)  
**Yun-Cai Liu** (15)  
**Gregory Longmore** (16)  
**Jon Lorsch** (15)  
**Hua Lou** (16)  
**Guillermina Lozano** (14)  
**Jens Lykke-Andersen** (16)  
**Fernando Macian** (15)  
**Susanne Mandrup** (15)  
**Brendan Manning** (15)  
**Richard Marais** (14)  
**William F. Marzluff** (15)  
**Peter McKinnon** (14)  
**Oded Meyuhaz** (15)  
**Randall H. Morse** (15)  
**Jorge Moscat** (15)  
**Hozumi Motohashi** (16)  
**Senthil Muthuswamy** (14)

**Marco Muzi-Falconi** (16)  
**Laszlo Nagy** (15)  
**Timothy Nilsen** (15)  
**Tomoo Ogi** (14)  
**Eric N. Olson** (16)  
**Michael F. Olson** (15)  
**Mary Ann Osley** (14)  
**Michele Pagano** (16)  
**James Palis** (15)  
**Barbara Panning** (14)  
**Ramon Parsons** (16)  
**Craig L. Peterson** (14)  
**Sjaak Philippsen** (15)  
**Joel Pomerantz** (16)  
**Clive Price** (14)  
**Pere Puigserver** (16)  
**Fraydoon Rastinejad** (15)  
**Joseph C. Reese** (14)  
**Ze'ev A. Ronai** (16)  
**Ananda Roy** (16)  
**Anil Rustgi** (16)  
**Hyung Don Ryoo** (14)  
**Erik Sahai** (15)  
**David Schatz** (14)  
**Robert Schneider** (15)  
**John Scott** (14)  
**Edward Seto** (15)  
**Andrew D. Sharrocks** (14)  
**Pam Silver** (14)  
**M. Celeste Simon** (14)  
**Nahum Sonenberg** (15)  
**Jon Staley** (14)  
**Richard Stanley** (16)  
**David Stern** (15)  
**Philip Stork** (16)  
**Brian D. Strahl** (14)  
**Tony Tiganis** (14)  
**Alex Toker** (16)  
**David Tollervey** (14)  
**Sharon Tooze** (16)  
**Cathy Tournier** (15)  
**Raymond C. Trievel** (15)  
**Jessica Tyler** (14)  
**Juan Valcarcel** (16)  
**Xiao-Fan Wang** (16)  
**Wenyi Wei** (16)  
**Stephen J. Weiss** (14)  
**William Weiss** (16)  
**Jonathan R. Whetstone** (15)  
**Michael White** (16)  
**Alan J. Whitmarsh** (15)  
**Jeffrey Wilusz** (14)  
**Changchun Xiao** (16)  
**Gerard P. Zambetti** (14)  
**Lee Zou** (16)

*Molecular and Cellular Biology* (ISSN 0270-7306), a publication of the American Society for Microbiology (ASM), 1752 N St., N.W., Washington, DC 20036-2904, is devoted to the advancement and dissemination of fundamental knowledge concerning the molecular biology of eukaryotic cells, of both microbial and higher organisms. Instructions to Authors can be found at <http://journal.mcb.asm.org/t/49546> and are updated throughout the year. The journal is published twice monthly, one volume per year. Nonmember print subscription prices (per year) are: \$1,969, U.S.; \$2,106, Canada (plus 5% GST, or 13% HST where applicable); \$2,103, Europe; \$2,151, Latin America; \$2,156, rest of world. Member print subscription prices (per year) are: \$324, U.S.; \$589, Canada (plus 5% GST, or 13% HST where applicable); \$532, Europe; \$606, Latin America; \$599, rest of world. Single copies are: \$100, nonmember; \$50, member (Canadians add 5% GST, or 13% HST where applicable). For prices of electronic versions or for correspondence relating to subscriptions, defective copies, missing issues, and availability of back issues, contact the Subscriptions Unit, ASM ([asmjournals@subscriptionoffice.com](mailto:asmjournals@subscriptionoffice.com)). Correspondence relating to reprint orders should be directed to ASM Author Services ([ASM.AuthorServicesSupport@cenveo.com](mailto:ASM.AuthorServicesSupport@cenveo.com)), 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 (see <http://journals.asm.org/site/misc/staffcontacts.xhtml>).

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 *Molecular and Cellular Biology*, ASM, 1752 N St., N.W., Washington, DC 20036-2904.

Made in the United States of America. Printed on acid-free paper. CODEN: MCEBD4

doi:10.1128/MCB.masthead.34-14

Copyright © 2014 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.