MOLECULAR BIOLOGY OF THE CELL
Published by the American Society for Cell Biology

Editor-in-Chief
David G. Drubin
University of California, Berkeley

Editors
Jennifer Lippincott-Schwartz
Howard Hughes Medical Institute
W. James Nelson
Stanford University
Thomas D. Pollard
Yale University
Jean E. Schwarzbauer
Princeton University

Features Editors
William Bement
University of Wisconsin
Douglas Kellogg
University of California, Santa Cruz
Keith G. Kozmynski
University of Virginia

Associate Editors
Diane Barber
University of California, San Francisco
Francis A. Barr
University of Oxford
Patricia Basserreau
Institut Curie
Laurent Blanchon
CEA Grenoble
Kerry S. Bloom
University of North Carolina
Charles Boone
University of Toronto
Patrick J. Brennewald
University of North Carolina
Julie Brill
The Hospital for Sick Children
Mananne Bronner
California Institute of Technology
Fred Chang
University of California, San Francisco
Jonathan Chernoff
Fox Chase Cancer Center
Oma Cohen-Fix
National Institutes of Health
Alex Dunn
Stanford University

Leah Edelstein-Keshet
University of British Columbia
Richard Fedor
University of Chicago
Paul Forscher
Yale University
Thomas D. Fox
Cambridge University
Margaret Gardel
University of Chicago
Reid Gilmore
University of Massachusetts
Mark H. Ginsberg
University of California, San Diego
Benjamin S. Glick
University of Chicago
Robert D. Goldman
Northwestern University
Jean E. Gruenberg
University of Geneva
J. Silvio Gutkind
University of California, San Diego
Jeffrey D. Hardin
University of Wisconsin
Carl-Henrik Heldin
Ludwig Institute for Cancer Research
Erika Holzbaur
University of Pennsylvania
Kazuhiko Kaibuchi
National Institute of Genetics
Sandra Lemmon
University of Miami
Daniel J. Lew
Duke University
Rong Li
Johns Hopkins University
Diane Lidke
University of New Mexico
Adam Linstedt
Carnegie Mellon University
Kurun Luo
University of California, Berkeley
Thomas M. Magin
University of Leipzig
Wallace Marshall
University of California, San Francisco
Thomas F. J. Martin
University of Wisconsin

A. Gregory Matera
University of North Carolina
Tom Misteli
National Cancer Institute, NIH
Alex Mogilner
New York University
Denise Montell
University of California, Santa Barbara
Keith E. Mostov
University of California, San Francisco
Akihiko Nakano
RIKEN
Donald D. Newmeyer
La Jolla Institute for Allergy and Immunology
Ama Nusrat
Emory University
Carole Parent
National Institutes of Health
Robert G. Parton
University of Queensland
Samara Reck-Peterson
University of California, San Diego
Howard Riezman
University of Geneva
Mark J. Solomon
Yale University
Thomas Sommer
Max Delbrück Center for Molecular Medicine
Anne Spang
University of Basel
Gero Steinberg
University of Exeter
Susan Strome
University of California, Santa Cruz
Suresh Subramani
University of California, San Diego
Thomas Surry
The Francis Crick Institute
William P. Tansey
Vanderbilt University
Manuel Thiry
CEA, Hopital Saint Louis
Diana Toivola
Åbo Akademi University
Peter Van Haastert
University of Groningen
Gia Voeltz
University of Colorado, Boulder
Xi-Wang
Carnegie Mellon University
Valerie Marie Weaver
University of California, San Francisco
Kersten Weiss
ETH Zurich

Marvin P. Wickens
University of Wisconsin
Sandra Wolin
Yale University
Yukiko Yamashita
University of Michigan
Alpha Yap
University of Queensland
John York
Vanderbilt University
Tamotsu Yoshinomori
Osaka University
Yixian Zhang
Carnegie Institution
Xueliang Zhu
Chinese Academy of Sciences

Board of Reviewing Editors
Richard Anderson
Ken-ichi Arai
Mark Aus
Kathryn Ayscough
Georgiana Barnes
Diana Bautista
Magdalena Bezanilla
Robert Boswell
David Burgess
James Casanova
Melanie Cobb
Charles Cole
Ruth Collins
Pierre Coulombe
Rik Derynck
William Dumphy
Harold Erickson
John Eriksson
Malyn Fanqhar
Victor Faundez
Alison Frand
Joseph Gall
Michael Glotzer
David Glover
Bruce Goode
Kathleen Gould
Barth Grant
Wei Guo
Rosine Haguenauer-Tsapis
Nisam Hay
Rebecca Heald
Daniel Hebert
Heidi Hehly
Martina Hemler
Mark Hochstrasser
David Hockenbery
Thomas Hope
Sui Huang
Ken Inoki
Andrei Ivanov
Catherine Jackson
Leanne Jones
Kenneth Kemphues
Mary Kennedy
Daniel Klionsky
David Koval
Helmut Kramer

Guangyu Li
Hua Lou
Alberto Luini
Eugene Marcantonio
Michael Marks
Satyajit Mayor
David Mitchell
Andrea Munsterberg
Coley Murphy
Karla Neugebauer
Davis Ng
Thoru Pedersen
Craig Peters
Rob Piper
Maureen Powers
Michael Rape
Karin Romsic
Nasser Rusan
Sara Saxty
Dorothy Schafer
Scott Schneid
Jonathan Scholey
Nava Segev
Shou-shan Shen
Alexander Sorokin
Harald Stenmark
Alex Stonging
Woan-Yuh Tarn
Peter ten Dijke
Mary Tierny
Margaret Titus
Linton Traub
Claire Wielczak
Paul Wassarman
Orion Weiner
Matthew Welch
Beverly Wendland
Mark Winey
Howard Worman
Michael Yaffe
Tedashi Yamamoto
Jennifer Zallen

Founding Editors
Erikku Ruuslahti
Bumham Institute
(Founding Editor, Cell Regulation)
David Botstein
Princeton University
Kiril Tamamoto
University of California, San Francisco

Publisher
Executive Director
Erika Shugart

Publications Director
W. Mark Leader

Journal Production Manager
Eric T. Baker

© 2017 by The American Society for Cell Biology. Molecular Biology of the Cell is available online at www.molbiolcell.org and through PubMed Central at www.pubmedcentral.nih.gov. Two months after being published at www.molbiolcell.org, the material in Molecular Biology of the Cell is available for non-commercial use by the general public under an Attribution–Noncommercial-Share Alike 3.0 Unported Creative Commons License (http://creativecommons.org/licenses/by-nc-sa/3.0). Under this license, the content may be used at no charge for non-commercial purposes by the general public, provided that: the authorship of the materials is attributed to the author(s) (in a way that does not suggest that the authors endorse the users or any user’s use of the material); the terms of this license in any use or distribution they engage in; users respect the fair use rights, moral rights, and rights that the Authors and any others have in the content.

ASCB®, The American Society for Cell Biology®, and Molecular Biology of the Cell® are registered trademarks of The American Society for Cell Biology.