

MCP MOLECULAR AND CELLULAR PROTEOMICS

Co-editors

Ralph A. Bradshaw
University of California, San Francisco

Alma L. Burlingame
University of California, San Francisco

Associate Editors

Ruedi Aebersold, Institute for Molecular Systems Biology, Federal Institute of Technology (ETH) Zürich, Faculty of Natural Sciences, University of Zürich, Zürich and Institute for Systems Biology, Seattle

Steven P. Briggs, University of California, San Diego

Steven A. Carr, Broad Institute, Cambridge

Julio E. Celis, Institute of Cancer Biology and DCTB, Copenhagen

Anne-Claude Gavin, EMBL, Heidelberg

Gerald W. Hart, Johns Hopkins University Medical School, Baltimore

Elizabeth A. Komives, University of California, San Diego

Michael Snyder, Stanford University School of Medicine, Stanford

John T. Stults, Genentech, Inc., South San Francisco

Editorial Board Members

Natalie G. Ahn
Brenda Andrews
Terri Attwood
Tony Bacic
Nuno Bandeira
Catherine Bazemore-Walker
Ronald Beavis
Laura Beretta
John J. M. Bergeron
Matthew Bogyo
Carl Borrebaeck
Nils Brunner
Wengang Chai
Robert Chalkley
Mark Chance
Andrew Chantry
Jyoti Choudhary
Karl R. Clauser
Tom Conrads
Ileana Cristea
Richard D. Cummings
James De Voss
Eric Deutsch
Bruno Domon
Joshua Elias
Andrew Emili
Virginia Espina
Mike Fainzilber
Ian Fearnley
Stanley Fields
Daniel Figey
William M. Gallagher

Jerome Garin
Simon J. Gaskell
Robert L. Geahlen
Robert E. Gerstein
Brad W. Gibson
Anne-Claude Gingras
Jeffrey J. Gorman
Shenheng Guan
Brian Haab
Murray Hackett
Albert J. R. Heck
Darren Hodgson
Hubert Hondermarck
Andrew Hoofnagle
Lan Huang
Toshiaki Isobe
Ole N. Jensen
Connie Jimenez
Dominique Job
Richard Johnson
Peter Juhasz
Eugene A. Kapp
Barry Karger
Elise C. Kohn
Harley Kornblum
Bernhard Küster
Doug Lauffenburger
Carlito B. Lebrilla
Dan Liebler
Bin Liu
Michael MacCoss
D. R. Mani

Matthias Mann
Peter McPherson
Katalin F. Medzihradzsky
Bernard Monsarrat
Jose Moreira
David Muddiman
Al Nesvizhskii
Ann L. Oberg
Yoshiya Oda
Gilbert Omenn
Torben Ørntoft
Jun Qin
Akhilesh Pandey
Amanda Paulovich
Eric M. Phizicky
Thierry Rabilloud
David Rocke
Peter Roepstorff
Andrej Sali
Ralf Schoepfer
John Scott
Waltraud Schulze
Andrej Shevchenko
Kai Simons
A. Ian Smith
Richard Smith
Kenneth G. Standing
Elaine Stephens
Marc E. Surette
Pierre Thibault
Jonathan Trinidad
Jeff Twiss

Henning Urlaub
Jan Van Oostrum
Zhi-Yong Wang
Michael Washburn
Klaas Van Wijk

Marc Vidal
Kenneth W. Walker
Lance Wells
Anthony Whetton
Julian P. Whitelegge

Michael B. Yaffe
Rong Zeng
Hongyu Zhao
Heng Zhu
Roman A. Zubarev

Editorial Office

Barbara Gordon, *Executive Director*
Nancy J. Rodnan, *Director of Publications*
Mary L. Chang, *Coordinating Journal Manager*
American Society for Biochemistry and
Molecular Biology
11200 Rockville Pike, Suite 302
Rockville, MD 20852-3110
Phone: (240) 283-6620
Fax: (301) 881-2573
E-mail: mcp@asbmb.org

Office of the Co-Editors

Ralph Bradshaw, Editor
Erin A. Schalles, Manager
E-mail: eschalles@asbmb.org

A.L. Burlingame, Editor
Kris Casler, Manager
E-mail: kcasler@asbmb.org
University of California, San Francisco
Department of Pharmaceutical Chemistry
San Francisco, CA 94143-2240
Phone: 415-476-4893
Fax: 415-502-1655

Clinical Proteomics Advisory Committee

Julio E. Celis (Chair)

Institute of Cancer Biology and DCTB, Copenhagen
jec@cancer.dk

Steven A. Carr (Deputy Chair)
The Broad Institute, Cambridge

Nils Brunner
Royal Veterinary & Agriculture University,
Denmark

Robert E. Gerszten
Massachusetts General Hospital, Boston

Darren Hodgson
AstraZeneca, Cheshire, UK

Elise C. Kohn
National Institutes of Health, Bethesda

David F. Ransohoff
University of North Carolina, Chapel Hill

P. H. Riegman
Erasmus Medical Center, Rotterdam

Ralph A. Bradshaw (Ex-Officio)
University of California, San Francisco

Alma L. Burlingame (Ex-Officio)
University of California, San Francisco

GENERAL INFORMATION

Molecular and Cellular Proteomics, ISSN 1535-9484 (electronic) and ISSN 1535-9476 (print), is published monthly by the American Society of Biochemistry and Molecular Biology. This publication is available exclusively on line at <http://www.mcponline.org>. For subscription information, please visit our website at www.mcponline.org/site/subscriptions.

Submit all manuscripts via the web to: www.mcponline.org/submit. All correspondence should be addressed to:

Editor, Molecular & Cellular Proteomics
11200 Rockville Pike, Suite 302
Rockville, MD 20852-3110, U.S.A.

Accepted manuscripts will be published with the implicit understanding that the author(s) will pay a \$65 charge per page. Under exceptional circumstances, when no source of grant or other support exists, the author(s) may apply, at the time of submission, for a grant-in-aid to Chairman, Publications Committee, American Society for Biochemistry and Molecular Biology, Inc., 11200 Rockville Pike, Suite 302 Rockville, MD 20852-3110. All such applications must be countersigned by an appropriate institutional official stating that no funds are available for page charges.

Queries on matters of general editorial policy should be directed to the Journal Editorial Office in Rockville, telephone 240-283-6620;

fax 301-881-2573; E-mail mcp@asbmb.org. *Molecular & Cellular Proteomics* publishes papers on a broad range of topics of interest to scientists working in the field of proteomics. The views expressed are those of the author(s) and not of *Molecular & Cellular Proteomics* or the American Society for Biochemistry and Molecular Biology.

Molecular & Cellular Proteomics is copyrighted by the American Society for Biochemistry and Molecular Biology, Inc. ASBMB grants use without requiring your copyright permission request for: original authors wanting to reproduce up to two figures or tables from their own work to publish in not-for-profit formats or venues, provided that full acknowledgment of the source is provided in the new work. For all other permissions to photocopy or use material electronically from *Molecular & Cellular Proteomics*, ISSN 1535-9484 (electronic) or ISSN 1535-9476 (print), please access www.copyright.com or contact Copyright Clearance Center, Inc. (CCC) 222 Rosewood Drive, Danvers, MA 01923, 978-750-8400. CCC is a not-for-profit organization that provides licenses and registration for a variety of users.

Molecular & Cellular Proteomics (ISSN 1535-9476) is published monthly by the American Society for Biochemistry and Molecular Biology, 11200 Rockville Pike, Suite 302, Rockville, MD 20852-3110.