



**AN OFFICIAL JOURNAL OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH**

**Editor-in-Chief**

**Karen E. Knudsen**

**Deputy Editors for  
Reviews**

Eric R. Fearon  
Cheryl L. Walker

**Senior Editors**

**Cell Cycle and Senescence**

J. Alan Diehl  
Julien Sage

**Cell Death and Survival**

James J. Manfredi

**Chromatin, Epigenetics, and  
RNA Regulation**

Jason S. Carroll  
W. Lee Kraus

**DNA Damage and Repair**

Robert Bristow  
Toshiyasu Taniguchi

**Genomics**

Elaine R. Mardis  
Mark A. Rubin

**Metabolism**

Massimo F. Loda

**Oncogenes and Tumor**

**Suppressors**

Steven B. McMahon  
Jean Y.J. Wang

**Signal Transduction**

Heide L. Ford  
William C. Hahn

**Editorial Board**

Andrew E. Aplin	Christine M. Eischen	Khandan Keyomarsi	Charles W.M. Roberts
Steven E. Artandi	Alessandro Fatatis	Joseph L. Kissil	Martine F. Roussel
Rene Bernards	Felix Y. Feng	Ralf Kittler	William P. Schiemann
Lawrence H. Boise	Elsa R. Flores	Natasha Kyprianou	Chi Wai Eric So
Carlos Caldas	Serge Y. Fuchs	Xiaole Shirley Liu	Makoto Mark Taketo
George A. Calin	Frank B. Furnari	Gregory D. Longmore	Andrew Thorburn
Junjie Chen	Todd R. Golub	David Macpherson	Axel Ullrich
Edwin Cheung	Joe W. Gray	Christopher A. Maher	Sooryanarayana Varambally
James A. DeCaprio	H. Leighton Grimes	Maureen E. Murphy	Karen H. Vousden
James V. DeGregori	Thomas Helleday	Senthil K. Muthuswamy	Geoffrey M. Wahl
Yali Dou	Elizabeth P. Henske	Michael Ohh	Qianben Wang
Giulio F. Draetta	Mien-Chie Hung	Joseph T. Opferman	Stephen J. Weiss
Donald L. Durden	Jos Jonkers	Renata Pasqualini	
Martin Eilers	Scott H. Kaufmann		

**AACR Officers**

Nancy E. Davidson, President  
Michael A. Caligiuri,  
President-Elect  
José Baselga, Past President  
William N. Hait, Treasurer  
Margaret Foti, Chief Executive  
Officer

**Publications  
Committee**

Mary Helen Barcellos-Hoff  
Alberto Bardelli  
Dafna Bar-Sagi  
Michael E. Berens  
René Bernards  
John D. Carpten  
Frederic J. de Sauvage  
Sanjiv Sam Gambhir  
Levi A. Garraway, Chairperson  
Maura L. Gillison  
Elizabeth M. Jaffee  
Pasi A. Jänne  
Roy A. Jensen  
Jonathan D. Licht  
Steffi Oesterreich  
William Pao  
Helen M. Piwnicka-Worms  
Charles W.M. Roberts  
Lillian L. Siu  
David B. Solit  
Saraswati V. Sukumar  
Toshikazu Ushijima  
Victor E. Velculescu

**Publishing Staff****Publisher**

Christine B. Rullo

**Director of Journal****Operations and Systems**

Daniel S. Evanko

**Associate Managing Editor**

Gregory Pavlovcak

**Associate Editor**

Clay Comstock

**Editorial Staff**

Karen Quann

**Associate Director,****Production**

Charlene Squibb

**Senior Production Editor**

Jennifer L. Harper

**Director, Digital Publishing**

Robert Spanier

**Associate Director,****Sales and Marketing**

Nicola L. Hill

**Assistant Director,****Institutional Sales &****Outreach**

Karola Rac

**Marketing and Creative****Services****Director**

Paul Driscoll

**Design Staff**

Susan Moore

**Scope**

*Molecular Cancer Research* publishes articles describing novel basic cancer research discoveries of broad interest to the field. Studies must be of demonstrated significance, and the Journal prioritizes analyses performed at the molecular and cellular level that reveal novel mechanistic insight into pathways and processes linked to cancer risk, development, and/or progression. Areas of emphasis include all cancer-associated pathways (including cell-cycle regulation; cell death; chromatin regulation; DNA damage and repair; gene and RNA regulation; genomics; metabolism; oncogenes and tumor suppressors; and signal transduction), in addition to studies describing new molecular mechanisms and interactions that support cancer phenotypes.

*Molecular Cancer Research* is abstracted and/or indexed in Current Contents/Clinical Medicine, MEDLINE, Science Citation Index, Scopus, and Web of Science.

**Submission of Manuscripts**

Online manuscript submission is welcomed at <http://mcr.msubmit.net>. Before submitting a manuscript, please read the Instructions for Authors, which is available from the Journal's home page at <http://mcr.aacrjournals.org>.

**Publication Charges**

Beginning with manuscripts submitted January 1, 2016 or after, articles will be published with the understanding that the author(s) will pay both a publication fee plus a color figure handling fee. Please see the Instructions for Authors, which are available from the Journal's home page at <http://mcr.aacrjournals.org>.

**Subscription Information****Nonmember Individuals**

Subscriptions include print version with online access. Contacts listed below are for nonmember individual subscriptions.

**USA and Rest of World (excluding Japan)**

American Association for Cancer Research, 615 Chestnut Street, Philadelphia, PA 19106; 1-855-744-4667; [pubsales@aacr.org](mailto:pubsales@aacr.org)

**Japan**

[e-support@maruzen.co.jp](mailto:e-support@maruzen.co.jp); [journal@kinokuniya.co.jp](mailto:journal@kinokuniya.co.jp); [usaco@usaco.co.jp](mailto:usaco@usaco.co.jp)

International print subscriptions include cost of surface mail. Expedited mailing is available. Contact the American Association for Cancer Research for rates.

**Site Licenses**

For information about institutional site licenses, contact [pubsales@aacr.org](mailto:pubsales@aacr.org).

**AACR Members**

AACR members may opt to receive either a print subscription with online access to content or an online only subscription. Contact [membership@aacr.org](mailto:membership@aacr.org) or visit the membership page at [www.aacr.org](http://www.aacr.org) for more information.

**Single Issue Sales**

Subject to their availability, single or back issues may be purchased for \$60 (U.S.) or \$65 (outside the U.S.) each. The cost must be prepaid. Contact [pubsales@aacr.org](mailto:pubsales@aacr.org).

**Claims**

One-time claims for missing issues made within 120 days of the issue's publication will be honored, subject to availability. No credit or refund will be given if an issue is out of print at the time of claim.

**AACR Members**

[membership@aacr.org](mailto:membership@aacr.org)

**Nonmembers and Institutions**

[pubsales@aacr.org](mailto:pubsales@aacr.org)

**Advertising Information**

For information about advertising in AACR journals, contact Pharmaceutical Media Inc., 30 East 33rd St., 4th Floor, NY, NY, 10016; 212-904-0374; [Mperlowitz@pminy.com](mailto:Mperlowitz@pminy.com).

**Copyright and Permissions**

Content printed in or disseminated by *Molecular Cancer Research* is protected by copyright. Authors who wish to publish material in *Molecular Cancer Research* must formally transfer copyright to the AACR. All authors must sign copyright transfer forms before the AACR can proceed with publication.

To read the complete AACR Copyright and Permissions Policy, visit [www.aacrjournals.org/site/InstrAuthors/ifora.xhtml#copyrightpermissions](http://www.aacrjournals.org/site/InstrAuthors/ifora.xhtml#copyrightpermissions).