

## EDITORS-IN-CHIEF

José Baselga

Lewis C. Cantley

## EXECUTIVE EDITOR

Mark W. Landis

## EDITORIAL STAFF

### DEPUTY EDITOR

Elizabeth S. McKenna

### ASSOCIATE EDITORS

Michele M. Hartsough

I-Mei Siu

### SENIOR EDITOR, SCIENCE AND MEDICAL NEWS

Suzanne L. Rose

### ASSISTANT EDITOR, SCIENCE AND MEDICAL NEWS

Alissa S. Poh

### SCIENCE WRITER

Krista L. Bledsoe

### EDITORIAL ASSOCIATE

Ashley Pfeiffer

### SENIOR PRODUCTION PROJECT EDITOR

Julie Ehlers

## SCIENTIFIC EDITORS

Kari Alitalo

James P. Allison

Scott A. Armstrong

Carlos L. Arteaga

Alan Ashworth

Alberto Bardelli

René Bernards

Elizabeth H. Blackburn

Paolo Boffetta

Joan S. Brugge

John C. Byrd

Andrea Califano

Arul Chinnaiyan

Sara A. Courtneidge

Lisa Coussens

Alan D. D'Andrea

Johann S. de Bono

Hugues de Thé

Ralph J. DeBerardinis

Ronald A. DePinho

Vishva M. Dixit

Susan M. Domchek

Matthew J. Ellis

Jeffrey A. Engelman

Douglas T. Fearon

Lori Friedman

Thomas F. Gajewski

Levi A. Garraway

Jennifer R. Grandis

Nathanael S. Gray

Daniel A. Haber

William C. Hahn

Douglas Hanahan

Manuel Hidalgo

Waun Ki Hong

Tyler Jacks

Elizabeth M. Jaffee

William G. Kaelin

Theodore S. Lawrence

John P. Leonard

Roger S. Lo

Douglas R. Lowy

Tak W. Mak

Richard M. Marais

Joan Massagué

Frank McCormick

Ari M. Melnick

Gordon B. Mills

Paul S. Mischel

Sean J. Morrison

Benjamin G. Neel

Olufunmilayo I. Olopade

Pier Paolo Pandolfi

William Pao

David R. Piwnica-Worms

Helen M. Piwnica-Worms

Kornelia Polyak

Carol Prives

Antoni Ribas

Jeffrey M. Rosen

Mark A. Rubin

Charles L. Sawyers

David Schenkein

Alice T. Shaw

Margaret A. Shipp

Kevan M. Shokat

M. Celeste Simon

Lillian L. Siu

David B. Solit

Laura Soucek

Charles Swanton

Josep Tabernero

Craig B. Thompson

Nicholas C. Turner

David A. Tuveson

Robert H. Vonderheide

Karen H. Vousden

Xiaodong Wang

Ralph Weissleder

Eileen White

**EDITORIAL OFFICE:** Cancer Discovery [ISSN 2159-8274 (Print); ISSN 2159-8290 (Online)] is published monthly, one volume per year, by the American Association for Cancer Research, Inc., 615 Chestnut St., 17th Floor, Philadelphia, PA 19106-4404. Periodicals postage is pending at Philadelphia, PA and additional mailing offices. POSTMASTER: Send address changes to Cancer Discovery, AACR Member Services, 615 Chestnut St., 17th Floor, Philadelphia, PA 19106-4404 or E-mail: [membership@aacr.org](mailto:membership@aacr.org). Copyright 2017 by the American Association for Cancer Research, Inc. © The paper used in this publication meets the requirements of ANSI/NISO Z39.48-1992 (Permanence of Paper).

### AACR OFFICERS

Michael A. Caligiuri, President  
Elizabeth M. Jaffee, President-Elect  
Nancy E. Davidson, 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  
Maura L. Gillison  
Elizabeth M. Jaffee  
Pasi A. Jänne  
Roy A. Jensen  
Jonathan D. Licht  
Steffi Oesterreich  
William Pao  
Helen M. Piwnica-Worms  
Charles W.M. Roberts  
Lillian L. Siu  
David B. Solit  
Saraswati V. Sukumar  
Toshikazu Ushijima  
Victor E. Velculescu, Chairperson

### PUBLISHING STAFF

#### PUBLISHER

Christine B. Rullo

#### DIRECTOR, JOURNAL OPERATIONS AND SYSTEMS

Daniel S. Evanko

#### DIRECTOR, JOURNAL SALES AND MARKETING

Nicola L. Hill

#### DIRECTOR, DIGITAL PUBLISHING

Robert Spanier

#### ASSOCIATE DIRECTOR, PRODUCTION

Charlene Squibb

#### ASSISTANT DIRECTOR, INSTITUTIONAL SALES & OUTREACH

Karola Rac

### SCOPE

*Cancer Discovery* publishes high-impact, peer-reviewed articles describing major advances in research and clinical trials. As the premier cancer information resource, the Journal also presents Review Articles, Perspectives and Commentaries, News stories, and Research Watch summaries of important journal articles to its readers

to keep them informed about the latest findings in the field. Topics span the spectrum of cancer research and medicine from the laboratory to the clinic and epidemiologic studies.

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

### SUBMISSION OF MANUSCRIPTS

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

### PUBLICATION CHARGES

Articles are published with the understanding that the author(s) must pay both a publication fee of \$2,500 and, if applicable, a color figure handling fee of \$450 per figure.

### 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, New York, NY 10016; 212-904-0360; [Dsimone@pminy.com](mailto:Dsimone@pminy.com).

### COPYRIGHT AND PERMISSIONS

Content printed in or disseminated by *Cancer Discovery* is protected by copyright. Authors who wish to publish material in *Cancer Discovery* 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/content/authors/copyright-permissions-and-access](http://www.aacrjournals.org/content/authors/copyright-permissions-and-access)