

# CLINICAL CANCER RESEARCH

The Journal of Clinical and Translational Research



## Editor-in-Chief

Keith T. Flaherty

### Executive Editor

Marlowe S. Tessmer

### Assistant Editor

Rachel Hodge

### Deputy Editors

Omar Abdel-Wahab  
Jennifer R. Grandis  
Susan G. Hilsenbeck  
Pasi A. Jänne  
Ignacio J. Melero  
Jean-Charles Soria  
Josep Tabernero  
Jedd D. Wolchok

### Senior Editors

Julie E. Bauman  
Daniel P. Cahill  
Andrew S. Chi  
Ryan B. Corcoran  
Matthew S. Davids  
Robert C. Doebele  
Michael A. Dyer  
Richard S. Finn  
Claire F. Friedman  
Daniel J. George  
Theodore S. Hong  
David M. Hyman

Robin Kate Kelley  
Marleen Kok  
Scott Kopetz  
Jason J. Luke  
Michael L. Maitland  
Constantine S. Mitsiades  
Amit M. Oza  
Daniel A. Pryma  
Sabina Signoretti  
Alex Sparreboom  
Ulrich G. Steidl  
Brian A. Van Tine  
Amit Verma  
Eduardo Vilar  
Colin D. Weekes  
Trisha M. Wise-Draper  
Douglas Yee  
Evan Y. Yu

### Statistical Reviewers

Cong Chen  
Susan Groshen  
Katherine A. Guthrie  
Byung-Ho Nam  
Megan Othus  
Katherine S. Panageas  
Yu Shyr  
Satoshi Teramukai  
Michael C. Wu

### Editorial Staff

#### Managing Editor

Kim Mackey

#### Assistant Managing Editor

William J. Siegmann

#### Special Content Manager

Chris Vesce

#### Assistant Director, Production

David Livewell

#### Editorial Staff

Brendan Maher  
Arlene Opio

# CLINICAL CANCER RESEARCH

## Editorial Board

Joseph A. Aisner  
Jaffer Ajani  
Kenneth D. Aldape  
Francis Ali-Osman  
Jennifer Amengual  
Carey Anders  
David E. Avigan  
Surinder Batra  
James Berenson  
Ray Bergan  
Kapil N. Bhalla  
Ronald M. Bukowski  
George A. Calin  
Kevin Camphausen  
Michael A. Carducci  
William E. Carson  
Paul B. Chapman  
Dharminder Chauhan  
Cong Chen  
Zhen Cheng  
Fortunato Ciardiello  
Robert Clarke  
Ezra E.W. Cohen  
Roisin M. Connolly  
Joseph Contessa  
Rajvir Dahiya  
William L. Dahut  
Michael A. Davies  
Johann S. de Bono  
Sandra Demaria  
Adam P. Dicker  
Catherine Diefenbach  
Federica Di Nicolantonio  
Colin P. Dinney  
Ronny Drapkin  
Steven DuBois  
Robert P. Edwards  
Wael El-Rifai  
Alan L. Epstein  
Francisco J. Esteva  
Robert L. Ferris  
William D. Figg  
Michelangelo Fiorentino  
David A. Frank  
Paul Frankel  
Simone Fulda  
Varsha V. Gandhi  
Stanton L. Gerson  
Giuseppe Giaccone  
Francis Giles  
Ajay Goel  
William E. Gooding  
Steven D. Gore  
Steven Grant  
William E. Grizzle  
Susan Groshen  
Katherine A. Guthrie  
Roy S. Herbst  
James G. Herman  
Fred R. Hirsch  
Rakesh K. Jain  
John M. Jessup  
Faye M. Johnson  
Dejan Juric  
Pawel Kalinski  
Michael Kalos  
Judith E. Karp  
Scott H. Kaufmann  
John M. Kirkwood  
E. Anders Kolb  
Murray Korc  
Rakesh Kumar  
Marc Ladanyi  
Ross L. Levine  
Min Li  
Jonathan D. Licht  
Josep M. Llovet  
Sagar Lonial  
Patricia LoRusso  
Nupam Mahajan  
Robert G. Maki  
Sami Malek  
Sridhar Mani  
David A. Mankoff  
H. Charles Manning  
Katherine K. Matthay  
Andrew P. Mazar  
David J. McConkey  
Janice Mehnert  
Alan A. Melcher  
Todd W. Miller  
John D. Minna  
Tetsuya Mitsudomi  
Gareth J. Morgan  
Byung-Ho Nam  
William G. Nelson  
Shuji Ogino  
Frank G. Ondrey  
Ruth M. O'Regan  
Eileen O'Reilly  
Robert Orłowski  
Megan Othus  
Katherine S. Panageas  
Klaus Pantel  
William Pao  
George Peoples  
Roman Perez-Soler  
Leonidas Plataniias  
Christine A. Pratilas  
Jerry Radich  
Noopur Rajee  
Ramesh K. Ramanathan  
Mark J. Ratain  
C. Patrick Reynolds  
Jeremy N. Rich  
Andrea Richardson  
Rafael Rosell  
Eric K. Rowinsky  
Lawrence V. Rubinstein  
David P. Ryan  
John H. Sampson  
Stefania Scala  
Maurizio Scaltriti  
Gary K. Schwartz  
Michael V. Seiden  
Violeta Serra  
Geoffrey Shapiro  
Yu Shyr  
Susan F. Slovin  
Keiran S.M. Smalley  
David Solit  
Paul Sondel  
Joseph Sparano  
Patricia S. Steeg  
Walter J. Storkus  
Mario Sznol  
Yu-Tzu Tai  
Chris H. Takimoto  
James Talmadge  
Beverly A. Teicher  
Joel E. Tepper  
Satoshi Teramukai  
Lawrence D. True  
Augusto Villanueva  
Emile Voest  
Robert H. Vonderheide  
Wolfgang A. Weber  
Patrick Y. Wen  
Theresa L. Whiteside  
Ignacio I. Wistuba  
Michael C. Wu  
Yun Yen  
Bin Zheng