Contents

Highlights of This Issue 6333

SPECIAL FEATURES

CCR Translations

6335 The Role of Protein Kinase CK2 in Glioblastoma Development
Haitao Ji and Zhimin Lu
See related article, p. 6484

CCR New Strategies

6338 New Strategies in Radiation Therapy: Exploiting the Full Potential of Protons
Radhe Mohan, Anita Mahajan, and Bruce D. Minsky

Molecular Pathways

6344 Molecular Pathways: Protein Methyltransferases in Cancer
Robert A. Copeland

CCR Focus

6352 On Masterpieces and Breast Cancer Research
Susan E. Bates

6353 Progress in Breast Cancer: Overview
Carlos L. Arteaga

6360 Neoadjuvant Therapy as a Platform for Drug Development and Approval in Breast Cancer
Aditya Bardia and José Baselga

6371 Incorporating Genomics into Breast Cancer Clinical Trials and Care
Adel Tabchy, Cynthia X. Ma, Ron Bose, and Matthew J. Ellis

6380 Tackling the Diversity of Triple-Negative Breast Cancer
Nicholas C. Turner and Jorge S. Reis-Filho

6389 Metastasis Dormancy in Estrogen Receptor–Positive Breast Cancer
Xiang H.-F. Zhang, Mario Giuliani, Meghana V. Trivedi, Rachel Schiff, and C. Kent Osborne

6398 Can Immunity to Breast Cancer Eliminate Residual Micrometastases?
Mary L. Disis and Sasha E. Stanton

HUMAN CANCER BIOLOGY

6404 CNS Metastases in Breast Cancer: Old Challenge, New Frontiers
Nancy U. Lin, Laleh Amir-Kordestani, Diane Palmieri, David J. Liewehr, and Patricia S. Steeg

6419 JMJ2B Promotes Epithelial–Mesenchymal Transition by Cooperating with β-Catenin and Enhances Gastric Cancer Metastasis
Li Zhao, Wenjuan Li, Wen Zang, Zhifang Liu, Xia Xu, Han Yu, Qiong Yang, and Jihui Jia

6430 Germline Variants and Advanced Colorectal Adenomas: Adenoma Prevention with Celecoxib Trial Genome-wide Association Study

6438 Contrasting Expression Patterns of Histone mRNA and microRNA 760 in Patients with Gastric Cancer
Takeshi Iwaya, Takeo Fukagawa, Yutaka Suzuki, Yusuke Takahashi, Genta Sawada, Masahisa Ishibashi, Junji Kurashige, Tomoya Sudo, Fumiaki Tanaka, Kohki Shibata, Fumitaka Endo, Hirokatsu Katagiri, Kaoru Ishida, Kohki Kume, Satoshi Nishizuka, Hisao Inuma, Go Wakabayashi, Masaki Mori, Mitsuru Sasako, and Koshi Mimori

6450 PI3K Pathway Activation Provides a Novel Therapeutic Target for Pediatric Ependymoma and Is an Independent Marker of Progression-Free Survival
Hazel A. Rogers, Cerys Mayne, Rebecca J. Chapman, John-Paul Kilday, Beth Coyle, and Richard G. Grundy
Autotaxin–Lysophosphatidic Acid Signaling Axis Mediates Tumorigenesis and Development of Acquired Resistance to Sunitinib in Renal Cell Carcinoma
Shih-Chi Su, Xiaoxiao Hu, Patrick A. Kenney, Megan M. Merrill, Kara N. Babaian, Xin Lin, and Christopher G. Wood

Cidofovir: A Novel Antitumor Agent for Glioblastoma
Piotr Hadaczek, Tomoko Ozawa, Liliana Soroceanu, Yasuyuki Yoshida, Lisa Matlaf, Eric Singer, Estefania Fiallos, C. David James, and Charles S. Cobbs

Targeting Protein Kinase CK2 Suppresses Prosurvival Signaling Pathways and Growth of Glioblastoma
Ying Zheng, Braden C. McFarland, Denis Drygin, Hao Yu, Susan L. Bellis, Hyunsoo Kim, Markus Bredel, and ETTY N. Benveniste

Shuya Yano, Hiroshi Tazawa, Yuuri Hashimoto, Yasuhiro Shirakawa, Shinji Kuroda, Masahiko Nishizaki, Hirouki Kishimoto, Futoshi Uno, Takeshi Nagasaka, Yosuke Ura, Shunsuke Kagawa, Robert M. Hoffman, and Toshiyoshi Fujiwara

Activity of the Hypoxia-Activated Prodrug, TH-302, in Preclinical Human Acute Myeloid Leukemia Models
Scott Portwood, Deepika Lal, Yung-Chun Hsu, Rodrigo Vargas, Megan K. Johnson, Meir Wetzel, Charles P. Hart, and Eunice S. Wang

The Histone Deacetylase Inhibitor Abexinostat Induces Cancer Stem Cells Differentiation in Breast Cancer with Low Jux Expression
Marion A. Salvador, Julien Wicinski, Olivier Cabaud, Yves Toiron, Pascal Finetti, Emmanuelle Josselin, Hélène Lelièvre, Laurence Kraus-Berthier, Stéphane Depil, François Bertucci, Yves Collette, Daniel Birnbaum, Emmanuelle Charafé-Jauffret, and Christophe Ginestier

Targeting Src and Tubulin in Mucinous Ovarian Carcinoma
Tao Liu, Wei Hu, Heathter J. Dalton, Hyn Park, Pradeep, Takahito Miyake, Jian H. Song, Yunfei Wen, Chunhua Lu, Chad V. Pecot, Justen Bottsford-Miller, Behrouz Zand, Nicholas B. Jennings, Cristina Ivan, Gary E. Gallick, Keith A. Buggerly, David G. Hargauer, Robert L. Coleman, Michael Frumovitz, and Anil K. Sood

Novel Methylation Biomarker Panel for the Early Detection of Pancreatic Cancer

EZH2 Protein Expression Associates with the Early Pathogenesis, Tumor Progression, and Prognosis of Non–Small Cell Lung Carcinoma

End-Therapy Positron Emission Tomography for Treatment Response Assessment in Follicular Lymphoma: A Systematic Review and Meta-analysis
Junhee Pyo, Kyung Won Kim, Heather A. Jacene, Christopher G. Sakellis, Jennifer R. Brown, and Annick D. Van den Abbeele

A Phase I Trial of Imetelstat in Children with Refractory or Recurrent Solid Tumors: A Children’s Oncology Group Phase I Consortium Study (ADVL1112)
Patrick A. Thompson, Rachid Drissi, Jodi A. Muscal, Eshini Panditharatna, Maryam Fouladi, Ashish M. Ingle, Charlotte H. Ahern, Joel M. Reid, Tong Lin, Brenda J. Weigel, and Susan M. Blaney
Effects of Adjuvant Chemoradiotherapy on the Frequency and Function of Regulatory T Cells in Patients with Head and Neck Cancer
Patrick J. Schuler, Malgorzata Harasymczuk, Bastian Schilling, Zenichiro Saze, Laura Strauss, Stephan Lang, Jonas T. Johnson, and Theresa L. Whiteside

ECOG Phase II Trial of Graded-Dose Peginterferon α-2b in Patients with Metastatic Melanoma Overexpressing Basic Fibroblast Growth Factor (E2602)
Ronald S. Go, Sandra J. Lee, Donghoon Shin, Steven M. Callister, Dean A. Jobe, Robert M. Conry, Ahmad A. Tarihini, and John M. Kirkwood

Photodynamic Therapy with 3-(1'-Hexyloxyethyl) Pyropheophorbide a for Cancer of the Oral Cavity
Nestor Rigual, Gal Shafirstein, Michele T. Cooper, Heinz Baumann, David A. Bellnier, Ulas Sunar, Erin C. Tracy, Daniel J. Rohrbach, Gregory Wilding, Wei Tan, Maureen Sullivan, Mihai Merzianu, and Barbara W. Henderson

A Phase II and Biomarker Study of Ramucirumab, a Human Monoclonal Antibody Targeting the VEGF Receptor-2, as First-Line Monotherapy in Patients with Advanced Hepatocellular Cancer
Andrew X. Zhu, Richard S. Finn, Mary Mulcahy, Jayne Gurtler, Weijing Sun, Jonathan D. Schwartz, Rita P. Dalal, Adarsh Joshi, Rebecca R. Hozak, Yihuan Xu, Marek Ancukiewicz, Rakesh K. Jain, Francis W. Nugent, Dan G. Duda, and Keith Stuart

A Comparative Analysis of Prognostic Factor Models for Follicular Lymphoma Based on a Phase III Trial of CHOP–Rituximab versus CHOP + 131Iodine—Tositumomab

Quantification of Excision Repair Cross-Complementing Group 1 and Survival in p16-Negative Squamous Cell Head and Neck Cancers
Ranee Mehra, Fang Zhu, Dong-Hua Yang, Kathy Q. Cai, JoEllen Weaver, Mahendra K. Singh, Anna S. Nikonova, Erica A. Golemis, Douglas B. Flieder, Harry S. Cooper, Miriam Lango, John A. Ridge, and Barbara Burtness

AC icon indicates Author Choice
CME icon indicates that this article is available for continuing medical education credit at http://cme.aacrjournals.org
For more information please visit www.aacrjournals.org
ABOUT THE COVER

The cover shows a human U251-MG glioblastoma cell transfected with 100 nM of non-target siRNA. Phalloidin (green) and DAPI (blue) staining shows organized F-actin and cell morphology. For details, see the article by Zheng and colleagues on page 6484 of this issue.
Clinical Cancer Research

19 (23)


Updated version
Access the most recent version of this article at:
http://clincancerres.aacrjournals.org/content/19/23

E-mail alerts
Sign up to receive free email-alerts related to this article or journal.

Reprints and Subscriptions
To order reprints of this article or to subscribe to the journal, contact the AACR Publications Department at pubs@aacr.org.

Permissions
To request permission to re-use all or part of this article, contact the AACR Publications Department at permissions@aacr.org.