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 Tabchi, 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, Meghan 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

6419
JMJD2B 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, Qing 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, Takoe Fukagawa, Yutaka Suzuki, Yusuke Takahashi, Genta Sawada, Masahisa Ishibashi, Junji Kurashige, Tomoya Sudo, Fumiaki Tanaka, Koei Shibata, Fumitaka Endo, Hirokatsu Katagiri, Kaoru Isida, Kohei Kume, Satoshi Nishizuka, Hisae Inuma, Go Wakabayashi, Masaki Mori, Mitsuru Sasaki, 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

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

6404
CANCER THERAPY: PRECLINICAL

6461  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, Xiu-Ying Zhang, Tapati Maity, Shun-Fa Yang, Xin Lin, and Christopher G. Wood

6473  Cidofovir: A Novel Antitumor Agent for Glioblastoma
   Piotr Hadaczek, Tomoko Ozawa, Liliana Sorocoeanu, Yasuyuki Yoshida, Lisa Matlaf, Eric Singer, Estefania Fiallos, C. David James, and Charles S. Cobbs

6484  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, Yuiri Hashimoto, Yasuhiro Shirakawa, Shinji Kuroda, Masahiko Nishizaki, Hiroyuki Kishimoto, Futoshi Uno, Takeshi Nagasaka, Yasuo Urata, Shunsuke Kagawa, Robert M. Hoffman, and Toshiyoshi Fujiwara

IMAGING, DIAGNOSIS, PROGNOSIS

6544  Novel Methylation Biomarker Panel for the Early Detection of Pancreatic Cancer

6556  EZH2 Protein Expression Associates with the Early Pathogenesis, Tumor Progression, and Prognosis of Non–Small Cell Lung Carcinoma

CANCER THERAPY: CLINICAL

6578  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 J. Patel, Maryam Fouladi, Ashish J. Patel, 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. Johe, Robert M. Conry, Ahmad A. Tarhini, 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 Burtmone

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.