Highlights of This Issue 1399

SPECIAL FEATURES

CCR Translations

1401  Myeloid Suppressors Decrease Melanoma Survival by Abating Tumor-Fighting T Cells
Rolf Kiesling, Yumeng Mao, and Yago Pico de Coa
See related article, p. 1601

Statistics in Clinical Cancer Research

1404  Getting More Out of Survival Data by Using the Hazard Function
Kenneth R. Hess and Victor A. Levin

Molecular Pathways

1410  Molecular Pathways: HER3 Targeted Therapy
Kinisha Gala and Sarat Chandarlapaty

CCR Focus

1418  It’s All About the Test: The Complexity of Companion Diagnostic Co-development in Personalized Medicine
Susan E. Bates

1419  Developing Precision Medicine in a Global World
Eric H. Rubin, Jeffrey D. Allen, Jan A. Nowak, and Susan E. Bates

1428  Evidence of Clinical Utility: An Unmet Need in Molecular Diagnostics for Patients with Cancer

1445  Similarities and Differences in the Oncology Drug Approval Process between FDA and European Union with Emphasis on In Vitro Companion Diagnostics
Adrian M. Senderowicz and Otmar Pfaff

1453  FDA Perspective on Companion Diagnostics: An Evolving Paradigm
Elizabeth A. Mansfield

Francesco Pignatti, Falk Elmann, Robert Hemmings, Bertil Jonsson, Micha Nuebling, Marisa Papaluca-Amati, Martin Posch, and Guido Rasi

1469  The Health Technology Assessment of Companion Diagnostics: Experience of NICE
Sarah K. Byron, Nick Crabh, Elisabeth George, Mirella Marlow, and Adrian Newland

HUMAN CANCER BIOLOGY

1477  FOXM1c Promotes Pancreatic Cancer Epithelial-to-Mesenchymal Transition and Metastasis via Upregulation of Expression of the Urokinase Plasminogen Activator System
Chen Huang, Dacheng Xie, Jiujie Cui, Qi Li, Yong Gao, and Keping Xie

1489  DNA Topoisomerase III Alpha Regulates p53-Mediated Tumor Suppression
Mei-Yi Hsieh, Jia-Rong Fan, Han-Wen Chang, Hsiang-Chin Chen, Tang-Long Shen, Shu-Chun Teng, Yen-Hsiu Yeh, and Tsai-Kun Li

1502  hERG1 Channels Regulate VEGF-A Secretion in Human Gastric Cancer: Clinicopathological Correlations and Therapeutic Implications
Olivia Crociati, Elena Lastraolli, Luca Boni, Serena Pillozzi, Maria Raffaella Romoli, Massimo D’Amico, Matteo Stefanini, Silvia Crescioli, Antonio Taddei, Lapo Bencini, Marco Bernini, Marco Farsi, Stefania Beggelli, Aldo Scarpa, Luca Messerini, Anna Tomezzi, Carla Vindigni, Paolo Morgagni, Luca Saragoni, Elisa Giommoni, Silvia Gasperoni, Francesco Di Costanzo, Franco Roviello, Giovanni De Manzoni, Paolo Bechi, and Annarosa Arcangeli

1513  Calcium/Calmodulin-Dependent Protein Kinase II and Its Endogenous Inhibitor α in Medullary Thyroid Cancer
Eleonora Russo, Marcella Salzano, Valentina De Falco, Caterina Mian, Susi Barollo, Agnese Secondo, Maurizio Bifulco, and Mario Vitale
1521 High-Resolution Array CGH and Gene Expression Profiling of Alveolar Soft Part Sarcoma
Shamini Selvarajah, Saumyadipta Pyne, Eleanor Chen, Ramakrishna Somppalle, Azra H. Ligon, Gunnlaugur P. Nielsen, Glenn Dranoff, Edward Stack, Massimo Loda, and Richard Flavin

1531 TGF-β–Induced Upregulation of malat1 Promotes Bladder Cancer Metastasis by Associating with suz12
Yu Fan, Bing Shen, Mingyue Tan, Xinyu Mu, Yan Qin, Fang Zhang, and Yong Liu

CANCER THERAPY: PRECLINICAL

1542 Preclinical Activity of the Oral Proteasome Inhibitor MLN9708 in Myeloma Bone Disease

1555 Temozolomide Does Not Impair Gene Therapy-Mediated Antitumor Immunity in Syngeneic Brain Tumor Models
Marianela Candolfi, Kader Yagiz, Mia Wibowo, Gabrielle E. Ahlzadeh, Mariana Puntel, Homayon Ghiasi, Neha Kamran, Christopher Paran, Pedro R. Lowenstein, and Maria G. Castro

1566 Hedgehog–GLI Signaling Inhibition Suppresses Tumor Growth in Squamous Lung Cancer
Lingling Huang, Vonn Walter, D. Neil Hayes, and Mark Onaitis

1576 The Nedd8-Activating Enzyme Inhibitor MLN4924 Thwarts Microenvironment-Driven NF-κB Activation and Induces Apoptosis in Chronic Lymphocytic Leukemia B Cells
J. Claire Godberson, Leigh Ann Humphries, Olga V. Danilova, Peter E. Kebbekus, Jennifer R. Brown, Alan Eastman, and Alexey V. Danilov

1590 Rapid Induction of Androgen Receptor Splice Variants by Androgen Deprivation in Prostate Cancer

IMAGING, DIAGNOSIS, PROGNOSIS

1601 Myeloid-Derived Suppressor Cells Predict Survival of Patients with Advanced Melanoma: Comparison with Regulatory T Cells and NY-ESO-1- or Melan-A–Specific T Cells
Benjamin Weide, Alexander Martens, Henning Zelba, Christina Stutz, Evelyne Derhovanessian, Anna Maria Di Giacomo, Michele Maio, Antje Sucker, Bastian Schilling, Dirk Schadendorf, Petra Büttner, Claus Garbe, and Graham Pawelec
See related article, p. 1401

1610 Radiation-Enhanced Lung Cancer Progression in a Transgenic Mouse Model of Lung Cancer Is Predictive of Outcomes in Human Lung and Breast Cancer
Oliver Delgado, Kimberly G. Batten, James A. Richardson, Xian-Jin Xie, Adi F. Gazdar, Aadil A. Kaisani, Luc Girard, Carmen Behrens, Milind Suraokar, Gail Fasciani, Woodring E. Wright, Michael D. Story, Ignacio I. Wistuba, John D. Minna, and Jerry W. Shay

1623 EASL- and mRECIST-Evaluated Responses to Combination Therapy of Sorafenib with Transarterial Chemoembolization Predict Survival in Patients with Hepatocellular Carcinoma
Lei Liu, Weijuan Wang, Hui Chen, Yan Zhao, Wei Bai, Zhanxin Yin, Chuangye He, Jia Jia, Man Yang, Jelai Xia, Daming Fan, and Guohong Han

1632 Positron Emission Tomography Imaging with 18F-Labeled ZHER2-2891 Affibody for Detection of HER2 Expression and Pharmacodynamic Response to HER2-Modulating Therapies
Sebastian Trousil, Susan Hoppmann, Quang-Dé Nguyen, Maciej Kaliszczak, Giampaolo Tomasi, Peter Iveson, Duncan Hiscock, and Eric O. Abougge

CANCER THERAPY: CLINICAL

1644 A Phase I, Pharmacokinetic, and Pharmacodynamic Study of Panobinostat, an HDAC Inhibitor, Combined with Erlotinib in Patients with Advanced Aerodigestive Tract Tumors
Jhanelle E. Gray, Eric Haura, Alberto Chiappori, Tawee Tanvetyanon, Charles C. Williams, Mary Pinder-Schenck, Julie A. Kish, Jenny Kreahling, Richard Lush, Anthony Neuger, Lionel Tetteh, Angela Akar, Xiuhua Zhao, Michael J. Schell, Gerold Bepler, and Soner Altiok
1656  Phase I Study of Oral Rigosertib (ON 01910. Na), a Dual Inhibitor of the PI3K and Plk1 Pathways, in Adult Patients with Advanced Solid Malignancies

1666  Phase I Dose-Escalation Study of Onartuzumab as a Single Agent and in Combination with Bevacizumab in Patients with Advanced Solid Malignancies
Ravi Salgia, Premal Patel, John Bothos, Wei Yu, Steve Eppler, Priti Hegde, Shuang Bai, Surinder Kaur, Ihsan Nijem, Daniel V.T. Catenacci, Amy Peterson, Mark J. Ratain, Blase Polite, Janice M. Mehnert, and Rebecca A. Moss

1667  Inactivation of the CDKN2A Tumor-Suppressor Gene by Deletion or Methylation Is Common at Diagnosis in Follicular Lymphoma and Associated with Poor Clinical Outcome
Abdulmohsen Alhejaily, Andrew G. Day, Harriet E. Feilotter, Tara Baetz, and David P. LeBrun

1687  A Functional Germline Variant in GLI1 Implicates Hedgehog Signaling in Clinical Outcome of Stage II and III Colon Carcinoma Patients

1698  Noninvasive Detection of Response and Resistance in EGFR-Mutant Lung Cancer Using Quantitative Next-Generation Genotyping of Cell-Free Plasma DNA

CORRECTION
1706  Correction: Carbonic Anhydrase IX Promotes Tumor Growth and Necrosis In Vivo and Inhibition Enhances Anti-VEGF Therapy