**SPECIAL FEATURES**

1. **CCR Translations**
   - **Myeloid Suppressors Decrease Melanoma Survival by Abating Tumor-Fighting T Cells**
     Rolf Kiessling, Yumeng Mao, and Yago Pico de Coa
     See related article, p. 1601

**Statistics in Clinical Cancer Research**

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

**Molecular Pathways**

1. **Molecular Pathways: HER3 Targeted Therapy**
   Kinisha Gala and Sarat Chandarlapaty

**CCR Focus**

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

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

1. **Evidence of Clinical Utility: An Unmet Need in Molecular Diagnostics for Patients with Cancer**

1. **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

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

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

1. **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**

1. **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

1. **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

1. **hERG1 Channels Regulate VEGF-A Secretion in Human Gastric Cancer: Clinicopathological Correlations and Therapeutical Implications**
   Olivia Crociani, Elena Lstraoli, Luca Boni, Serena Pilozzo, Maria Raffaela Romoli, Massimo D’Amico, Matteo Stefanini, Silvia Crescioli, Antonio Taddei, Lapo Bencini, Marco Bernini, Marco Farsi, Stefania Beggelli, Aldo Scarpa, Luca Messerini, Anna Tomezzoli, Carla Vindigni, Paolo Morgagni, Luca Saragoni, Elisa Giomoni, Silvia Gasperoni, Francesco Di Costanzo, Franco Roviello, Giovanni De Manzoni, Paolo Bechi, and Annarosa Arcangeli

1. **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 Sompalae, 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, Aadiel 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, Daining 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 Trousl, Susan Hoppmann, Quang-Đè Nguyen, Maciej Kaliszczak, Giampaolo Tomasi, Peter Iveson, Duncan Hiscock, and Eric O. Aboagye

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
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

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

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

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

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

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

Predictive Biomarkers and Personalized Medicine

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

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

PREDICTIVE BIOMARKERS AND PERSONALIZED MEDICINE

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

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

About the Cover
The cover shows a section of an intracranial glioblastoma (GBM). GBM cells express the fluorescent protein citrine (green) and the high-mobility group protein B1 (HMG1) fused to the red fluorescent protein cherry. In living cells HMG1 is located in the nucleus; upon cell death, HMG1 is translocated to the cytoplasm and is eventually secreted. Circulating levels of HMG1 may constitute a noninvasive surrogate biomarker of therapeutic efficacy. For details, see the article by Candolfi and colleagues on page 1555 of this issue.
Clinical Cancer Research

20 (6)


Updated version
Access the most recent version of this article at:
http://clincancerres.aacrjournals.org/content/20/6

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.