## Highlights of This Issue

### SPECIAL FEATURES

#### CCR Translations

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
<th>See article p.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2121</td>
<td>Biomarkers for EGFR-Antagonist Response: In the Genes and on the Genes!</td>
<td>Hariharan Easwaran and Stephen B. Baylin</td>
<td>2360</td>
</tr>
<tr>
<td>2124</td>
<td>Double Down for a Double Win</td>
<td>Pearl S. Huang</td>
<td>2316</td>
</tr>
<tr>
<td>2127</td>
<td>Competing Risk Analyses: How Are They Different and Why Should You Care?</td>
<td>Rick Chappell</td>
<td>2301</td>
</tr>
<tr>
<td>2130</td>
<td>Choosing Phase II Endpoints and Designs: Evaluating the Possibilities</td>
<td>Michael LeBlanc and Catherine Tangen</td>
<td>2309</td>
</tr>
</tbody>
</table>

#### Molecular Pathways

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2133</td>
<td>Molecular Pathways: Digoxin Use and Estrogen-Sensitive Cancers—Risks and Possible Therapeutic Implications</td>
<td>Robert J. Biggar</td>
</tr>
<tr>
<td>2138</td>
<td>Molecular Pathways: Pathogenesis and Clinical Implications of Microbiome Alteration in Esophagitis and Barrett Esophagus</td>
<td>Liying Yang, Fritz Francois, and Zhiheng Pei</td>
</tr>
</tbody>
</table>

#### Review

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2145</td>
<td>Novel Therapeutic Agents for the Management of Patients with Multiple Myeloma and Renal Impairment</td>
<td>Asher A. Chanan-Khan, Jesús F. San Miguel, Sundar Jagannath, Heinz Ludwig, and Meletios A. Dimopoulos</td>
</tr>
<tr>
<td>2155</td>
<td>Expression of Epstein-Barr Virus–Encoded Proteins in Extranodal NK/T-cell Lymphoma, Nasal Type (ENKL): Differences in Biologic and Clinical Behaviors of LMP1-Positive and -Negative ENKL</td>
<td>Naoko Kanemitsu, Yasushi Isobe, Azuchi Masuda, Shuji Morose, Moriihiro Higashi, Jun-ichi Tamaru, Koichi Sugimoto, and Norio Komatsu</td>
</tr>
</tbody>
</table>

### HUMAN CANCER BIOLOGY

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
</table>
First Evidence That γ-Tocotrienol Inhibits the Growth of Human Gastric Cancer and Chemosensitizes It to Capecitabine in a Xenograft Mouse Model through the Modulation of NF-κB Pathway
Kanjoormana A. Manu, Muthu K. Shanmugam, Lalitha Ramachandran, Feng Li, Chee Wai Fong, Alan Prem Kumar, Patrick Tan, and Gautam Sethi

The HDAC Inhibitor LBH589 Enhances the Antimyeloma Effects of the IGF-1RTK Inhibitor Picropodophyllin
Miguel Lemaire, Charlotte Fristedt, Prasoon Agarwal, Eline Menu, Els Van Valkenborgh, Elke De Bryune, Anders Osterborg, Peter Atadja, Olle Larsson, Magnus Axelsson, Ben Van Camp, Helena Jernberg-Wiklund, and Karin Vanderkerken

Improved Efficacy of Dendritic Cell–Based Immunotherapy by Cutaneous Laser Illumination
Xinyuan Chen, Qiyan Zeng, and Mei X. Wu

Cytokine BAFF Gene Variation Is Associated with Survival of Patients with T-cell Lymphomas
Kan Zhai, Xiaobo Tian, Chen Wu, Ning Lu, Jiang Chang, Liming Huang, Tongwen Zhang, Yuling Zhou, Yan Qiao, Dianke Wu, Wen Tan, Jieping Chen, and Dongxin Lin

Prognostic Role of PIK3CA Mutation in Colorectal Cancer: Cohort Study and Literature Review
Xiaoyun Liao, Teppie Morikawa, Paul Lochhead, Yu Imamura, Aya Kuchiba, Mai Yamauchi, Katsuhiko Nosho, Zhi Rong Qian, Reiko Nishihara, Jeffery A. Meyerhardt, Charles S. Fuchs, and Shuji Ogino

cMET and Phospho-cMET Protein Levels in Breast Cancers and Survival Outcomes
Kanwal P. Baghaz, Wenting Wang, Shuying Liu, Mariana Chavez-MacGregor, Xiaolong Meng, Gabriel N. Hortobagyi, Gordon B. Mills, Funda Meric-Bernstam, George R. Blumenschein Jr, and Ana M. Gonzalez-Angulo

Tumor Epidermal Growth Factor Receptor and EGFR PY1068 Are Independent Prognostic Indicators for Head and Neck Squamous Cell Carcinoma

 Plasma Biomarkers as Predictors of Outcome in Patients with Advanced Hepatocellular Carcinoma
Josep M. Llovet, Carol E.A. Peña, Chetan D. Lathia, Michael Shau, Gerold Meinhardt, and Jordi Bruix on behalf of the SHARP Investigators Study Group

The Use and Interpretation of Competing Risks Regression Models
James J. Dignam, Qiang Zhang, and Masha Kocherginsky

Resampling Phase III Data to Assess Phase II Trial Designs and Endpoints
Manish R. Sharma, Theodore G. Karrison, Yuyan Jin, Robert B. Ries, Michael L. Maitland, Walter M. Stadler, and Mark J. Ratain

The Clinical Effect of the Dual-Targeting Strategy Involving PI3K/AKT/ mTOR and RAS/MEK/ERK Pathways in Patients with Advanced Cancer

BRAF(V600) Inhibitor GSK2118436 Targeted Inhibition of Mutant BRAF in Cancer Patients Does Not Impair Overall Immune Competency
David S. Hong, Luis Vence, Gerald Falchook, Laszlo G. Radavanyi, Chengwen Liu, Vicki Goodman, Jeffery J. Legos, Sam Blackman, Antonio Scarmadillo, Raquel Zurzrock, Gregory Lizée, and Patrick Hwu
A Phase II Study of Lapatinib in Recurrent/Metastatic Squamous Cell Carcinoma of the Head and Neck

A Phase I Combination Study of Olaparib with Cisplatin and Gemcitabine in Adults with Solid Tumors
Arun Rajan, Corey A. Carter, Ronan J. Kelly, Martin Gutierrez, Shivaani Kummar, Eva Szabo, Mary Ann Yancey, Jiuping Ji, Baskar Mannargudi, Suyung Wou, Shawn Spencer, William Douglas Figg, and Giuseppe Giacone

Whole Blood Stem Cell Reinfusion and Escalated Dose Melphalan in Castration-Resistant Prostate Cancer: A Phase 1 Study
Jonathan Shamash, Jimmy Jacob, Samir Agrawal, Thomas Powles, Katherine Mutsangwa, Peter Wilson, and Justin Stebbing

DNA Methylation Profiling Defines Clinically Relevant Biological Subsets of Non–Small Cell Lung Cancer
Kim Walter, Thomas Holcomb, Tom Januario, Pan Du, Marie Evangelista, Nithya Kartha, Leonardo Iniguez, Robert Soriano, Ling Hwu, Howard Stern, Zora Modrusan, Somasekar Seshagiri, Garret M. Hampton, Lukas C. Amler, Richard Bourgon, Robert L. Yau, and David S. Shames

Analyzing the Pivotal Trial That Compared Sunitinib and IFN-α in Renal Cell Carcinoma, Using a Method That Assesses Tumor Regression and Growth
Wilfred D. Stein, Julia Wilkerson, Sindy T. Kim, Xin Huang, Robert J. Motzer, Antonio Tito Fojo, and Susan E. Bates

Connexin 47 Mutations Increase Risk for Secondary Lymphedema Following Breast Cancer Treatment
David N. Finegold, Catherine J. Baity, Kelly Z. Knickelbein, Shelley Perschke, Sarah E. Noon, Diana Campbell, Jenny M. Karlsson, Diana Huang, Mark A. Kimak, Elizabeth C. Lawrence, Eleanor Feingold, Stephen D. Meriney, Adam M. Bruksy, and Robert E. Ferrell

Evaluation of Circulating Tumor Cells and Circulating Tumor DNA in Non–Small Cell Lung Cancer: Association with Clinical Endpoints in a Phase II Clinical Trial of Pertuzumab and Erlotinib
Elizabeth A. Punnoose, Siminder Atwal, Weiquan Liu, Rajiv Raja, Bernard M. Fine, Brett G.M. Hughes, Rodney J. Hicks, Garret M. Hampton, Lukas C. Amler, Andrea Pirzkall, and Mark R. Lackner

Responsiveness of Intrinsic Subtypes to Adjuvant Anthracycline Substitution in the NCIC.CTG MA.5 Randomized Trial

Correction: GSK1120212 (JTP-74057) Is an Inhibitor of MEK Activity and Activation with Favorable Pharmacokinetic Properties for Sustained In Vivo Pathway Inhibition

ABOUT THE COVER

RAF265 greatly reduces the activation of MEK1 in melanoma patient tumors. Photomicrograph showing immunohistochemical localization of a remaining low level of active phospho-MEK1 (green) in a melanoma patient tumor that was treated with RAF265 after being implanted into a nude mouse. Nuclei are stained with DAPI and appear blue. 20X magnification. For details, see the article by Su and colleagues on page 2184 of this issue.