## Highlights of This Issue 3717

### SPECIAL FEATURES

#### CCR Translations

- **Dual PI3K/mTOR Inhibitors: Does p53 Modulate Response?**
  Oleksandr Eksheyyn, Arunkumar Anandharaj, and Cherie-Ann O. Nathan
  See article, p. 3808

#### CCR Perspectives in Drug Approval

- **Use of Multiple Endpoints and Approval Paths Depicts a Decade of FDA Oncology Drug Approvals**
  Michael B. Shea, Samantha A. Roberts, Jessica C. Walrath, Jeff D. Allen, and Ellen V. Sigal

#### Molecular Pathways

- **Molecular Pathways: Environmental Estrogens Activate Nongenomic Signaling to Developmentally Reprogram the Epigenome**
  Rebecca Lee Yean Wong and Cheryl Lyn Walker

- **Molecular Pathways: PI3K Pathway Targets in Triple-Negative Breast Cancers**
  Valerie Gordon and Shantanu Banerji

#### Review

- **Optical Image-Guided Cancer Surgery: Challenges and Limitations**
  Stijn Keereewe, Pieter B.A.A. Van Driel, Thomas J.A. Snoeks, Robert J. Baatenburg de Jong, Alexander L. Vahrmeijer, Henricus J.C.M. Sterenborg, and Clemens W.G.M. Löwik

### HUMAN CANCER BIOLOGY

- **T\textsubscript{H}2 Cytokines from Malignant Cells Suppress T\textsubscript{H}1 Responses and Enforce a Global T\textsubscript{H}2 Bias in Leukemic Cutaneous T-cell Lymphoma**
  Emmanuela Guenova, Rei Watanabe, Jessica E. Teague, Jennifer A. Desimone, Ying Jiang, Mitra Dowlatshahi, Christoph Schlapbach, Knut Schuekel, Alain H. Rook, Marianne Tawa, David C. Fisher, Thomas S. Kupper, and Rachael A. Clark

- **S100B Promotes Glioma Growth through Chemotraction of Myeloid-Derived Macrophages**
  Huajing Wang, Lijing Zhang, Ian Y. Zhang, Xuebo Chen, Anna Da Fonseca, Shihua Wu, Hui Ren, Sam Badie, Sam Sadeghi, Mao Ouyang, Charles D. Warden, and Behnam Badie

- **Glioma Grade Is Associated with the Accumulation and Activity of Cells Bearing M2 Monocyte Markers**

- **Genotype-Specific Abnormalities in Mitochondrial Function Associate with Distinct Profiles of Energy Metabolism and Catecholamine Content in Pheochromocytoma and Paraganglioma**

### CANCER THERAPY: PRECLINICAL

- **Functional Profiling of Receptor Tyrosine Kinases and Downstream Signaling in Human Chondrosarcomas Identifies Pathways for Rational Targeted Therapy**
  Yi-Xiang Zhang, Jolieke G. van Oosterwijk, Ewa Sicinska, Samuel Moss, Stephen P. Remilla, Tom van Wezel, Claudia Bühnemann, Andrew B. Hassan, George D. Demetri, Judith V.M.G. Bovée, and Andrew J. Wagner
PI3K/mTOR Inhibitor PF-04691502 Antitumor Activity Is Enhanced with Induction of Wild-Type TP53 in Human Xenograft and Murine Knockout Models of Head and Neck Cancer

Inhibition of GSK3B Bypass Drug Resistance of p53-Null Colon Carcinomas by Enabling Necroptosis in Response to Chemotherapy
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David P. Conrad, Jovian Tsang, Meaghan Maclean, Jean-Simon Diallo, Fabrice Le Boeuf, Chantal G. Lemay, Theresa J. Falls, Kelley A. Parato, John C. Bell, and Harold L. Atkins

Targeting Natural Killer Cells to Acute Myeloid Leukemia In Vitro with a CD16 × 33 Bispecific Killer Cell Engager and ADAM17 Inhibition
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Targeting Treatment-Resistant Breast Cancer Stem Cells with FKBPL and Its Peptide Derivative, AD-01, via the CD44 Pathway
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Ketogenic Diets Enhance Oxidative Stress and Radio-Chemo-Therapy Responses in Lung Cancer Xenografts
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Liselle C. Bovell, Chandrakumar Shanmugam, Balananda-Dhurjati K. Putcha, Venkat R. Katkoori, Bin Zhang, Sejong Bae, Karan P. Singh, William E. Grizzle, and Upender Manne

Antibiotic Treatment Decreases Microbial Burden Associated with Pseudomyxoma Peritonei and Affects β-Catenin Distribution

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Yan Feng, Amit Roy, Eric Masson, Tai-Tsang Chen, Rachel Humphrey, and Jeffrey S. Weber

Phase II Study of Everolimus in Patients with Metastatic Colorectal Adenocarcinoma Previously Treated with Bevacizumab-, Fluoropyrimidine-, Oxaliplatin-, and Irinotecan-Based Regimens

Kimmie Ng, Josep Tabernero, Jimmy Hwang, Emilio Rajetta, Sunit Sharma, Salvatore A. Del Prete, Edward R. Arrowsmith, David P. Ryan, Michaela Sedova, Jin Jin, Kamel Malek, and Charles S. Fuchs

Phase I Dose-Escalation Study of VB-111, an Antiangiogenic Virotherapy, in Patients with Advanced Solid Tumors


Biomarker Modulation following Short-Term Vorinostat in Women with Newly Diagnosed Primary Breast Cancer

Vered Starns, Lisa K. Jacobs, Marylo Faccler, Theodore N. Tsangaris, Michelle A. Rudek, Michaela Higgins, Julie Lange, Zandra Cheng, Shannon A. Slater, Stacie C. Jeter, Penny Powers, Susanne Briest, Calvin Chao, Carl Yoshizawa, Elizabeth Sugar, Igor Espinoza-Delgado, Saraswati Sukumar, Edward Gabrielson, and Nancy E. Davidson

PD-L1 Expression in B-cell Lymphomas and Virus-Associated Malignancies—Letter

Mads Hald Andersen

Correction: Concomitant BRAF and PI3K/mTOR Blockade Is Required for Effective Treatment of BRAF V600E Colorectal Cancer

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β-catenin is a transmembrane protein that associates with junctional proteins and assists with the maintenance of cell attachment. As revealed through immunofluorescent staining, β-catenin (shown in green) localizes to the cell membranes and within the lateral junctional complex in normal appendix tissue. In contrast, tissue samples from patients with pseudomyxoma peritonei display primarily cytoplasmic staining of β-catenin and virtually no staining at the intercellular boundaries. However, antibiotic treatment of patients with pseudomyxoma peritonei results in a significant increase in β-catenin within the cell membranes, appearing to aid in the renormalization of β-catenin distribution. For details, see the article by Semino-Mora and colleagues on page 3966 of this issue.
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