### Highlights of This Issue 2017

#### SPECIAL FEATURES

**CCR Translations**

- **2019** New Approaches but the Same Flaws in the Search for Prognostic Signatures
  - Ramon Salazar and Josep Tabernero
  - See related article, p. 2159

- **2023** Emerging Immunologic Biomarkers: Setting the (TNM-Immune) Stage
  - Janis M. Taube
  - See related article, p. 2147

- **2026** SETting OP449 into the PP2A-Activating Drug Family
  - Paolo Neviani and Danilo Perrotti
  - See related article, p. 2092

**CCR Perspectives in Drug Approval**

- **2029** U.S. Food and Drug Administration Approval: Crizotinib for Treatment of Advanced or Metastatic Non–Small Cell Lung Cancer That Is Anaplastic Lymphoma Kinase Positive

**CCR Drug Updates**

- **2035** Dabrafenib and Trametinib, Alone and in Combination for BRAF-Mutant Metastatic Melanoma
  - Alexander M. Menzies and Georgina V. Long

#### Molecular Pathways

- **2044** Molecular Pathways: Interleukin-15 Signaling in Health and in Cancer
  - Anjali Mishra, Laura Sullivan, and Michael A. Caligiuri

- **2051** Molecular Pathways: Molecular Basis for Sensitivity and Resistance to JAK Kinase Inhibitors
  - Sara C. Meyer and Ross L. Levine

### Reviews

- **2060** Molecular Biomarkers in Advanced Renal Cell Carcinoma
  - Pablo Maroto and Brian Rini

- **2072** Hepatocellular Carcinoma: Reasons for Phase III Failure and Novel Perspectives on Trial Design
  - Josep M. Llovet and Virginia Hernandez-Gea

#### HUMAN CANCER BIOLOGY

- **2080** High-Throughput Detection of Clinically Relevant Mutations in Archived Tumor Samples by Multiplexed PCR and Next-Generation Sequencing
  - Richard Bourgon, Shan Lu, Yibing Yan, Mark R. Lackner, Weiru Wang, Victor Weigman, David Wang, Yinghui Guan, Lisa Ryner, Hartmut Koeppen, Rajesh Patel, Garret M. Hampton, Lukas C. Amier, and Yulei Wang

### CANCER THERAPY: PRECLINICAL

- **2092** Antagonism of SET Using OP449 Enhances the Efficacy of Tyrosine Kinase Inhibitors and Overcomes Drug Resistance in Myeloid Leukemia
  - Anupriya Agarwal, Ryan J. MacKenzie, Raffaella Fippa, Christopher A. Edle, Jessica Oddo, Jeffrey W. Tyner, Rosalie Sears, Michael P. Vitek, María D. Odero, Dale J. Christensen, and Brian J. Druker
  - See related article, p. 2026

- **2104** Rational Combination Therapy of Vintafolide (EC145) with Commonly Used Chemotherapeutic Drugs
  - Joseph A. Reddy, Ryan Dorton, Alicia Bloomfield, Melissa Nelson, Marilynn Vetzel, John Guan, and Christopher P. Leamon

- **2115** Inhibition of RET Increases the Efficacy of Antiestrogen and Is a Novel Treatment Strategy for Luminal Breast Cancer
  - Philip M. Spanheimer, Jung-Min Park, Ryan W. Askeland, Mikhail V. Kulak, George W. Woodfield, James P. De Andrade, Anthony R. Cyr, Sonia L. Sugg, Alexandra Thomas, and Ronald J. Weigel
A Peptide-Based Positron Emission Tomography Probe for In Vivo Detection of Caspase Activity in Apoptotic Cells
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A Distinct Metabolic Signature of Human Colorectal Cancer with Prognostic Potential
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Hypoxia-Driven Gene Expression Is an Independent Prognostic Factor in Stage II and III Colon Cancer Patients
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Imaging the Norepinephrine Transporter in Neuroblastoma: A Comparison of [18F]-MFBG and [123I]-MIBG
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Ultra Low-Dose IL-2 for GVHD Prophylaxis after Allogeneic Hematopoietic Stem Cell Transplantation Mediates Expansion of Regulatory T Cells without Diminishing Antiviral and Antileukemic Activity

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LETTERS TO THE EDITOR

2236  Proteomic Markers of DNA Repair and PI3K Pathway Activation Predict Response to the PARP Inhibitor BMN 673 in Small Cell Lung Cancer—Letter
Haifeng Qiu

2237  Proteomic Markers of DNA Repair and PI3K Pathway Activation Predict Response to the PARP Inhibitor BMN 673 in Small Cell Lung Cancer—Response
Robert J.G. Cardnell and Lauren A. Byers

ABOUT THE COVER

The cover shows a class of recurrent hotspot mutations in PIK3R1 and PIK3CA from endometrial cancer patients that are clustered at the interface between the iSH2 domain of PIK3R1 and the C2 domain of PIK3CA. Alteration of some of these crucial amino acids has been shown to be sufficient to disrupt the inhibitory contact by PIK3R1 and may represent a novel mechanism of oncogenic activation of PIK3CA. For details, see the article by Bourgon and colleagues on page 2080 of this issue.