## Highlights of This Issue

### SPECIAL FEATURES

#### CCR Translations

- **BAP1tism of a Tumor Suppressor**
  - Scott E. Woodman
  - See article p. 408

#### Molecular Pathways

- **Molecular Pathways: Osteoclast-Dependent and Osteoclast-Independent Roles of the RANKL/RANK/OPG Pathway in Tumorigenesis and Metastasis**
  - William C. Dougall

#### Perspective

- **New Challenges in Endpoints for Drug Development in Advanced Melanoma**
  - Antoni Ribas, Peter Hersey, Mark R. Middleton, Helen Gogas, Keith T. Flaherty, Vernon K. Sondak, and John M. Kirkwood

#### Review

- **Multiple Myeloma Mesenchymal Stem Cells: Characterization, Origin, and Tumor-Promoting Effects**
  - Michaela R. Reagan and Irene M. Ghobrial

## HUMAN CANCER BIOLOGY

#### Molecular Analysis of Colorectal Tumors within a Diverse Patient Cohort at a Single Institution

Brooke E. Sylvester, Dezheng Huo, Andrey Khramtsov, Jing Zhang, Rana V. Smalling, Sope Olugbile, Blase N. Polite, and Olufunmilayo I. Olopade

#### A Noncanonical Fli3ITD/NF-κB Signaling Pathway Represses DAPK1 in Acute Myeloid Leukemia

Rajuabramian Shannugam, Padmaja Gade, Annique Wilson-Weekes, Hamid Sayar, Attaya Suvannasankha, Chirayu Goswami, Lang Li, Sushil Gupta, Angela A. Cardoso, Tareq Al Baghdadi, Katie J. Sargent, Larry D. Cripe, Dhananjaya V. Kalvakolanu, and H. Scott Boswell

## CANCER THERAPY: PRECLINICAL

#### Histone Deacetylase Inhibitors Induce Growth Arrest and Differentiation in Uveal Melanoma

Solange Landreville, Olga A. Agapova, Katie A. Matatall, Zachary T. Kneass, Michael D. Onken, Ryan S. Lee, Anne M. Bowcock, and J. William Harbour

#### Leflunomide Induces Apoptosis in Fludarabine-Resistant and Clinically Refractory CLL Cells

Sascha Dietrich, Oliver H. Krämer, Esther Hahn, Claudia Schäfer, Thomas Giese, Michael Hess, Theresa Tretter, Michael Rieger, Jennifer Hülle, Thorsten Zenz, Anthony D. Ho, Peter Dregger, and Thomas Luft
Anti-EGFR Antibody Cetuximab Enhances the Cytolytic Activity of Natural Killer Cells toward Osteosarcoma


Bexarotene via CBP/p300 Induces Suppression of NF-κB–Dependent Cell Growth and Invasion in Thyroid Cancer

Audrey Cras, Beatrice Politis, Nicole Balitrand, Diane Darsin-Bettinger, Pierre Yves Boelle, Bruno Cassinat, Marie-Elisabeth Toubert, and Christine Chomienne

Targeting Tumor-Associated Endothelial Cells: Anti-VEGFR2 Immunoliposomes Mediate Tumor Vessel Disruption and Inhibit Tumor Growth

Andreas Wicki, Christoph Buchlitz, Annette Orleth, Reto Ritschard, Inke Albrecht, Richard Herrmann, Gerhard Christofori, and Christoph Mamot

EpCAM/CD3-Bispecific T-cell Engaging Antibody MT110 Eliminates Primary Human Pancreatic Cancer Stem Cells

Michele Cioffi, Jorge Dorado, Patrick A. Baeuerle, and Christopher Heeschen

CPTH6, a Thiazole Derivative, Induces Histone Hypoacetylation and Apoptosis in Human Leukemia Cells

Daniela Trisciuoglio, Ylenia Ragazzoni, Andrea Pelosi, Marrianna Desideri, Simone Carradori, Chiara Gabellini, Giovanna Maresca, Riccardo Nescafellii, Daniela Secchi, Adriana Bologn, Bruna Bizzarri, Chiara Cavaliere, Igea D’Agnano, Patrizia Fletetici, Lucia Ricci-Vitiani, Maria Giulia Rizzo, and Donatella Del Bufalo

Tipping the Noxa/Mcl-1 Balance Overcomes ABT-737 Resistance in Chronic Lymphocytic Leukemia


VTX-2337 Is a Novel TLR8 Agonist That Activates NK Cells and Augments ADCC

Hailing Lu, Gregory N. Dietsch, Maura-Ann H. Matthews, Yi Yang, Smita Ghanekar, Margaret Inokuma, Maria Suni, Vernon C. Maino, Katherine E. Henderson, James Jeffrey Howbert, Mary L. Disis, and Robert M. Hershberg

Iniparib Nonselectively Modifies Cysteine-Containing Proteins in Tumor Cells and Is Not a Bona Fide PARP Inhibitor


Loss of 18q22.3 Involving the Carboxypeptidase of Glutamate-like Gene Is Associated with Poor Prognosis in Resected Pancreatic Cancer

Jhi-Hsiang Lee, Elisa Giovannetti, Jin-Hyeok Hwang, Iacopo Petriti, Quyan Wang, Johannes Voortman, Yonghong Wang, Seth M. Steinberg, Niccola Funel, Paul S. Meltzer, Yisong Wang, and Giuseppe Giaccone

MicroRNA Molecular Profiles Associated with Diagnosis, Clinicopathologic Criteria, and Overall Survival in Patients with Resectable Pancreatic Ductal Adenocarcinoma


Association of HER2/ErbB2 Expression and Gene Amplification with Pathologic Features and Prognosis in Esophageal Adenocarcinomas

Harry H. Yoon, Qian Shi, William R. Sukov, Anne E. Wiktor, Malhi Khan, Christopher A. Sattler, Axel Grotthey, Tsung-Teh Wu, Robert B. Diasio, Robert B. Jenkins, and Frank A. Sinicrope

Phase II, Open-Label, Randomized Trial of the MEK1/2 Inhibitor Selumetinib as Monotherapy versus Temozolomide in Patients with Advanced Melanoma

John M. Kirkwood, Lars Bastholt, Caroline Robert, Jeff Hosman, James Larkin, Peter Hersey, Mark Middleton, Mireille Cantarini, Victoria Zazuinna, Karin Kemsley, and Reinhard Dummer
Phase I, Dose-Escalation Trial of the Oral Cyclin-Dependent Kinase 4/6 Inhibitor PD 0332991, Administered Using a 21-Day Schedule in Patients with Advanced Cancer
Keith T. Flaherty, Patricia M. LoRusso, Angela DeMichele, Vandana G. Abramson, Rachel Courtney, Sophia S. Randolph, M. Naveed Shaik, Keith D. Wilner, Peter J. O'Dwyer, and Gary K. Schwartz

A Genome-Wide Association Study of Overall Survival in Pancreatic Cancer Patients Treated with Gemcitabine in CALGB 80303

Genetic Variations in Epigenetic Genes Are Predictors of Recurrence in Stage I or II Non–Small Cell Lung Cancer Patients
Klaus W. Wagner, Yuanqing Ye, Jie Lin, Ara A. Vaporciyan, Jack A. Roth, and Xifeng Wu

ABOUT THE COVER
Although antiangiogenic therapies are effective and comparatively safe treatments against human cancer, renal toxicity is one of the major concerns. Anti-VEGFR2 immunoliposomes loaded with a chemotherapeutic drug showed marked antitumor activity in various tumor models. Importantly, no long-term renal side effects were evident with this therapy. This image shows a section of mouse kidneys 18 months after repeated injection of anti-VEGFR2 immunoliposomes loaded with doxorubicin. For details, see the article by Wicki and colleagues on page 454 of this issue.