Highlights of This Issue

THERAPEUTIC DISCOVERY

1841 First Evidence of Sphingosine 1-Phosphate Lyase Protein Expression and Activity Downregulation in Human Neoplasm: Implication for Resistance to Therapeutics in Prostate Cancer
Leyre Brizuela, Isabelle Ader, Catherine Mazeron, Magalie Bocquet, Bernard Malaval, and Olivier Cuvillier

1852 Induction of the Transcriptional Repressor ZBTB4 in Prostate Cancer Cells by Drug-Induced Targeting of MicroRNA-17-92/106b-25 Clusters
KyoungHyun Kim, Gayathri Chadalapaka, Satya S. Pathi, Un-Ho Jin, Ju-Seog Lee, Yun-Yong Park, Sung-Gook Cho, Sudhakar Chintharlapalli, and Stephen Safe

1863 A Role for Homologous Recombination and Abnormal Cell-Cycle Progression in Radioresistance of Glioma-Initiating Cells

1873 Oxidative Stress Induced by Curcumin Promotes the Death of Cutaneous T-cell Lymphoma (HuT-78) by Disrupting the Function of Several Molecular Targets
Mohammad Aslam Khan, Satindra Gahlot, and Sekhar Majumdar

1884 Killing of Kras-Mutant Colon Cancer Cells via Rac-Independent Actin Remodeling by the βGBP Cytokine, a Physiological PI3K Inhibitor Therapeutically Effective In Vivo
Livio Mallucci, Dong-yun Shi, Derek Davies, Peter Jordan, Alastair Nicol, Lavinia Lotti, Renato Mariani-Costantini, Fabio Verginelli, Valerie Wells, and Daniel Zicha

PRECLINICAL DEVELOPMENT

1905 Trans,trans,trans-\([Pt^4(N_3)_2(OH)_2(py)(NH_3)]\): A Light-Activated Antitumor Platinum Complex That Kills Human Cancer Cells by an Apoptosis-Independent Mechanism

1915 Protein Kinase C Inhibitor AEB071 Targets Ocular Melanoma Harboring GNAQ Mutations via Effects on the PKC/Erk1/2 and PKC/NF-κB Pathways
Xinqi Wu, Jingjing Li, Meijun Zhu, Jonathan A. Fletcher, and F. Stephen Hodi

1925 Targeted Expression of BikDD Eliminates Breast Cancer with Virtually No Toxicity in Noninvasive Imaging Models
Nousheen Zaidi, Ines Royaux, Johannes V. Swinnen, and Karine Smans

1936 Peptidomimetic Src/Pretubulin Inhibitor KX-01 Alone and in Combination with Paclitaxel Suppresses Growth, Metastasis in Human ER/PR/HER2-Negative Tumor Xenografts
Muralidharan Anbalagan, Alaa Ali, Ryan K. Jones, Carolyn G. Marsden, Mei Sheng, Latonya Carrier, Yaho Bu, David Hangauer, and Brian G. Rowan
Enhancement of Synthetic Lethality via Combinations of ABT-888, a PARP Inhibitor, and Carboplatin In Vitro and In Vivo Using BRCA1 and BRCA2 Isogenic Models
Caroline C. Clark, Jeffrey N. Weitzel, and Timothy R. O’Connor

TPI-287, a New Taxane Family Member, Reduces the Brain Metastatic Colonization of Breast Cancer Cells
Daniel P. Fitzgerald, David L. Emerson, Yongzhen Qian, Talha Anwar, David J. Lievehr, Seth M. Steinberg, Sandra Silverman, Diane Palmieri, and Patricia S. Steeg

Evidence for the Ubiquitin Protease UBP43 as an Antineoplastic Target
Yongli Guo, Fadzai Chinyengetere, Andrey V. Dolinko, Alexandra Lopez-Aguir, Yun Lu, Fabrizio Galimberti, Tian Ma, Qing Feng, David Sekula, Sarah J. Freeman, Angelina S. Andrew, Vincent Memoli, and Ethan Dmitrovsky

Dacomitinib (PF-00299804), an Irreversible Pan-HER Inhibitor, Inhibits Proliferation of HER2-Amplified Breast Cancer Cell Lines Resistant to Trastuzumab and Lapatinib

YM155 Reverses Cisplatin Resistance in Head and Neck Cancer by Decreasing Cytoplasmic Survivin Levels

The Gamma Secretase Inhibitor MRK-003 Attenuates Pancreatic Cancer Growth in Preclinical Models
Masamichi Mizuma, Zheshaan C. Rasheed, Shinichi Yabuuchi, Noriyuki Omura, Nathaniel R. Campbell, Roeland F. de Wilde, Elizabeth De Oliveira, Qing Zhang, Oscar Puig, William Matsui, Manuel Hidalgo, Anirban Maitra, and N.V. Rajeshkumar

Fibroblast Growth Factor Receptor 2 IIIc as a Therapeutic Target for Colorectal Cancer Cells
Yoko Matsuda, Masahito Hagio, Tomoko Seya, and Toshiyuki Ishiwata

Global Evaluation of Eph Receptors and Ephrins in Lung Adenocarcinomas Identifies EphA4 as an Inhibitor of Cell Migration and Invasion

The Novel BCR-ABL and FLT3 Inhibitor Ponatinib Is a Potent Inhibitor of the MDR-Associated ATP-Binding Cassette Transporter ABCG2
Rupashree Sen, Karthika Natarajan, Jasjeet Bhullar, Suneeet Shukla, Hong-Bin Fang, Ling Cai, Zhe-Sheng Chen, Suresh V. Ambudkar, and Maria R. Baer

MLN0905, a Small-Molecule PLK1 Inhibitor, Induces Antitumor Responses in Human Models of Diffuse Large B-cell Lymphoma
Judy Qujia Shu, Kerri Lasky, Vanhali Shinde, Bradley Stringer, Mark G. Qian, Debra Liao, Ray Liu, Denise Driscoll, Michelle Tighe Nestor, Benjamin S. Amidon, Yoonal Rao, Matt O. Duffey, Mark G. Manfredi, Tricia J. Vos, Natalie D’Amore, and Marc L. Hyer

Genetic Variation That Predicts Platinum Sensitivity Reveals the Role of miR-193b* in Chemotherapeutic Susceptibility
Dana Ziliak, Eric R. Gamazon, Bonnie LaCroix, Hae Kyung Im, Yuja Wen, and Rong Stephanie Huang

MOLECULAR MEDICINE IN PRACTICE

Molecular Profiling of Patients with Colorectal Cancer and Matched Targeted Therapy in Phase I Clinical Trials
Rodrigo Dienstmann, Danila Serpico, Jordi Rodon, Cristina Saura, Teresa Macarulla, Elena Elez, Maria Alsina, Jaime Capdevila, Jose Perez-Garcia, Gessam Sánchez-Ollé, Claudia Aura, Ludmila Prudkin, Stefania Landolfi, Javier Hernández-Losa, Ana Vivancos, and Josep Tabernero

Correction: Proanthocyanidins Inhibit In Vitro and In Vivo Growth of Human Non–Small Cell Lung Cancer Cells by Inhibiting the Prostaglandin E2 and Prostaglandin E2 Receptors

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Immunohistochemical staining of colorectal cancer tissues using anti-FGFR2IIIc antibody. The tumor cell cytoplasm and cell membrane of adenocarcinoma showed strong immunoreactivity for FGFR2IIIc, which is a splicing isoform of FGFR2. FGFR2IIIc immunoreactivity was expressed in 27% of colorectal cancer cases, and this expression correlated with distant metastasis and poor prognosis. FGFR2IIIc-transfected colorectal cancer cells formed larger tumors in subcutaneous tissues and the cecum of immunodeficient mice. Fully human anti-FGFR2IIIc monoclonal antibody inhibited the growth and migration of colorectal cancer cells. For details, see the article by Matsuda and colleagues on page 2010.