THERAPEUTIC DISCOVERY

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 Malavaud, and Olivier Cuvillier

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

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

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

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

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

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

ATP Citrate Lyase Knockdown Induces Growth Arrest and Apoptosis through Different Cell- and Environment-Dependent Mechanisms
Nousheen Zaidi, Ines Royaux, Johannes V. Swinnen, and Karine Smans

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, Yahao Bu, David Hangauer, and Brian G. Rowan

ATP CITRATE LYASE KNOCKDOWN INDUCES GROWTH ARREST AND APOPTOSIS THROUGH DIFFERENT CELL- AND ENVIRONMENT-DEPENDENT MECHANISMS
Nousheen Zaidi, Ines Royaux, Johannes V. Swinnen, and Karine Smans
1948 | 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

1959 | 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. Liewehr, Seth M. Steinberg, Sandra Silberman, Diane Palmieri, and Patricia S. Steeg

1968 | Evidence for the Ubiquitin Protease UBP43 as an Antineoplastic Target
Yongli Guo, Fadzai Chinyengetere, Andrey V. Dolinko, Alexandra Lopez-Aguilar, Yun Lu, Fabrizio Galimberti, Tian Ma, Qing Feng, David Sekula, Sarah J. Freeman, Angeline S. Andrew, Vincent Memoli, and Ethan Dmitrovsky

1978 | Dacomitinib (PF-00299804), an Irreversible Pan-HER Inhibitor, Inhibits Proliferation of HER2-Amplified Breast Cancer Cell Lines Resistant to Trastuzumab and Lapatinib

1988 | YM155 Reverses Cisplatin Resistance in Head and Neck Cancer by Decreasing Cytoplasmic Survivin Levels
Bhavna Kumar, Arti Yadav, James C. Lang, Michael J. Cipolla, Alessandra C. Schmitt, Nicole Arradaza, Theodoros N. Teknos, and Pawan Kumar

1999 | The Gamma Secretase Inhibitor MRK-003 Attenuates Pancreatic Cancer Growth in Preclinical Models
Masamichi Mizuma, Zeshaan A. 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 Dennis J. Slamon

2010 | Fibroblast Growth Factor Receptor 2 IIIc as a Therapeutic Target for Colorectal Cancer Cells
Yoko Matsuda, Masahito Hagio, Tomoko Seya, and Toshiyuki Ishiwata

2021 | Global Evaluation of Eph Receptors and Ephrins in Lung Adenocarcinomas Identifies EphA4 as an Inhibitor of Cell Migration and Invasion

2033 | 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, Sunetek Shukla, Hong-Bin Fang, Ling Cai, Zhe-Sheng Chen, Suresh V. Ambudkar, and Maria R. Baer

2045 | MLN0905, a Small-Molecule PLK1 Inhibitor, Induces Antitumor Responses in Human Models of Diffuse Large B-cell Lymphoma
Judy Quiju Shi, Kerri Lasky, Vasanthi Shinde, Bradley Stringer, Mark G. Qian, Debra Liao, Ray Liu, Denise Driscoll, Michelle Tighe Nestor, Benjamin S. Amidon, Youlan Rao, Matt O. Duffey, Mark G. Manfredi, Tricia J. Vos, Natalie D’Amore, and Marc L. Hyer

2054 | 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, Yujia Wen, and Rong Stephanie Huang

MOLECULAR MEDICINE IN PRACTICE

2062 | 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 Macarrull, Elena Elez, Maria Asins, Jaume Capdevila, Jose Perez-Garcia, Gessami Sanchez-Ollé, Claudia Auran, Ludmila Prudkin, Stefania Landolfi, Javier Hernandez-Losa, Ana Vivancos, and Josep Tabernero

CORRECTION

2072 | 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

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.