RESEARCH ARTICLES

2-Methoxyestradiol Inhibits Barrett’s Esophageal Adenocarcinoma Growth and Differentiation through Differential Regulation of the β-Catenin–E-Cadherin Axis

Reduced Argininosuccinate Synthetase Is a Predictive Biomarker for the Development of Pulmonary Metastasis in Patients with Osteosarcoma
Eisuke Kobayashi, Mari Masuda, Robert Nakayama, Hitoshi Ichikawa, Reiko Satow, Miki Shitashige, Kazufumi Honda, Umio Yamaguchi, Ayako Shoji, Naobumi Tochigi, Hideo Moriooka, Yoshiaki Toyama, Setsuo Hirohashi, Akira Kawai, and Tesshi Yamada

Identification of Expression Signatures Predictive of Sensitivity to the Bcl-2 Family Member Inhibitor ABT-263 in Small Cell Lung Carcinoma and Leukemia/Lymphoma Cell Lines

The Mismatch Repair System Modulates Curcumin Sensitivity through Induction of DNA Strand Breaks and Activation of G_{2-M} Checkpoint
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Proanthocyanidins Inhibit In vitro and In vivo Growth of Human Non–Small Cell Lung Cancer Cells by Inhibiting the Prostaglandin E_{2} and Prostaglandin E_{1} Receptors
Som D. Sharma, Syed M. Meeran, and Santosh K. Katiyar

Association of Polymorphisms in AKTI and EGFR with Clinical Outcome and Toxicity in Non–Small Cell Lung Cancer Patients Treated with Gefitinib
Elisa Giovannetti, Paolo A. Zucali, Godfredur J. Peters, Filippo Cortesi, Armida D’Incecco, Egbert F. Smit, Alfredo Falcone, Jacobus A. Burgers, Armando Santoro, Romano Danesi, Giuseppe Giaccone, and Carmelo Tibaldi

Anacardic Acid Inhibits Estrogen Receptor α–DNA Binding and Reduces Target Gene Transcription and Breast Cancer Cell Proliferation
David J. Schultz, Nalinee S. Wickramasinghe, Margarita M. Ivanova, Susan M. Isaacs, Susan M. Dougherty, Yoannis Imbert-Fernandez, Albert R. Cunningham, Chunyuan Chen, and Carolyn M. Klinge

The Prolyl Isomerase Pin1 Enhances HER-2 Expression and Cellular Transformation via Its Interaction with Mitogen-Activated Protein Kinase/Extracellular Signal-Regulated Kinase Kinase 1
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Cytotoxic Effects Induced by Docetaxel, Gefitinib, and Cyclopamine on Side Population and Nonside Population Cell Fractions from Human Invasive Prostate Cancer Cells
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Antiangiogenic Activities of 2,5-Dimethyl-Celecoxib on the Tumor Vasculature
SB939, a Novel Potent and Orally Active Histone Deacetylase Inhibitor with High Tumor Exposure and Efficacy in Mouse Models of Colorectal Cancer
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ABT-869 Inhibits the Proliferation of Ewing Sarcoma Cells and Suppresses Platelet-Derived Growth Factor Receptor β and c-KIT Signaling Pathways

The FLT3 Internal Tandem Duplication Mutation Is a Secondary Target of the Aurora B Kinase Inhibitor AZD1152-HQPA in Acute Myelogenous Leukemia Cells
Martin Grundy, Claire Seedhouse, Shilli Shang, Jaineeta Richardson, Nigel Russell, and Monica Pallis

Efficacy of PHA-848125, a Cyclin-Dependent Kinase Inhibitor, on the K-RasG12DLA2 Lung Adenocarcinoma Transgenic Mouse Model: Evaluation by Multimodality Imaging
Anna Degrassi, Micaela Russo, Cristina Nanni, Veronica Patton, Rachele Alzani, Anna M. Giusti, Stefano Fanti, Marina Ciomei, Enrico Pesenti, and Gemma Texido

Doxorubicin Resistance in a Novel In vitro Model of Human Pleomorphic Liposarcoma Associated with Alternative Lengthening of Telomeres
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Alisol B, a Novel Inhibitor of the Sarcoplasmic/Endoplasmic Reticulum Ca2+ ATPase Pump, Induces Autophagy, Endoplasmic Reticulum Stress, and Apoptosis
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Wnt Inhibitory Factor 1 Decreases Tumorigenesis and Metastasis in Osteosarcoma
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Sorafenib Inhibits STAT3 Activation to Enhance TRAIL-Mediated Apoptosis in Human Pancreatic Cancer Cells
Shengbing Huang and Frank A. Sinicrope

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ABOUT THE COVER

ABT-263 is an inhibitor of the Bcl-2 family members Bcl-2, Bcl-xL, and Bcl-w. Genes that are predictive for sensitivity to ABT-263, as identified by genomic expression profiling, are connected to key Bcl-2 family members as shown in the analysis of the signature genes by Ingenuity Pathways Analysis. In this network, genes that are colored in pink have higher expression in resistant cell lines, while genes colored in green have higher expression in sensitive cell lines. For details, see article by Tahir and colleagues on page 545.