RESEARCH ARTICLES

2-Methoxyestradiol Inhibits Barrett's Esophageal Adenocarcinoma Growth and Differentiation through Differential Regulation of the β-Catenin–E-Cadherin Axis
Suman Kambhampati, Snigdha Banerjee, Kakali Dhar, Smriti Mehta, Imamul Haque, Gopal Dhar, Monami Majumder, Gibanananda Ray, Peter J. Vanveldhuizen, and Sushanta K. Banerjee

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 G2-M Checkpoint
Zhihua Jiang, ShunQian Jin, Jack C. Yalowich, Kevin D. Brown, and Baskaran Rajasekaran

Proanthocyanidins Inhibit In vitro and In vivo Growth of Human Non–Small Cell Lung Cancer Cells by Inhibiting the Prostaglandin E2 and Prostaglandin E3 Receptors
Som D. Sharma, Syed M. Meeran, and Santosh K. Katiyar

Association of Polymorphisms in AKT1 and EGFR with Clinical Outcome and Toxicity in Non–Small Cell Lung Cancer Patients Treated with Gefitinib
Elisa Giovannetti, Paolo A. Zucali, Godfredus 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, Nalinie 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
Prem Khanal, Gwang Mo Namgoong, Bong Seok Kang, Eun-Rhan Woo, and Hong Seok Choi

Cytotoxic Effects Induced by Docetaxel, Gefitinib, and Cyclopamine on Side Population and Nonside Population Cell Fractions from Human Invasive Prostate Cancer Cells
Murielle Mimeault, Sonny L. Johansson, Jean-Pierre Henichart, Patrick Depreux, and Surinder K. Batra

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
Veronica Novotny-Diermayr, Kanda Sanghongpitag, Chang Yong Hu, Xiaofeng Wu, Nina Sausgruber, Pauline Yeo, Gediminas Greicius, Sven Pettersson, Ai Leng Liang, Yung Kiang Loh, Zahid Bonday, Kee Chuan Goh, Hannes Hentze, Stefan Hart, Haishan Wang, Kantharaj Ethirajulu, and Jeanette Marjorie Wood

Molecular Pharmacology and Antitumor Activity of PHT-427, a Novel Akt/Phosphatidylinositide-Dependent Protein Kinase 1 Pleckstrin Homology Domain Inhibitor

Alisol B, a Novel Inhibitor of the Sarcoplasmic/Endoplasmic Reticulum Ca²⁺ ATPase Pump, Induces Autophagy, Endoplasmic Reticulum Stress, and Apoptosis
Betty Y.K. Law, Mingfu Wang, Dik-Lung Ma, Fawaz Al-Moussa, Francesco Michelangeli, Suk-Hang Cheng, Margaret H.L. Ng, Ka-Fai To, Anthony Y.F. Mok, Rebecca Y.Y. Ko, Sze Kui Lam, Feng Chen, Chi-Ming Che, Pauline Chiu, and Ben C.B. Ko

Wnt Inhibitory Factor 1 Decreases Tumorigenesis and Metastasis in Osteosarcoma
Elyssa M. Rubin, Yi Guo, Khao Tu, Jun Xie, Xiaolin Zi, and Bang H. Hoang

Sorafenib Inhibits STAT3 Activation to Enhance TRAIL-Mediated Apoptosis in Human Pancreatic Cancer Cells
Shengbing Huang and Frank A. Sinicrope

Phase I Combination of Sorafenib and Erlotinib Therapy in Solid Tumors: Safety, Pharmacokinetic, and Pharmacodynamic Evaluation from an Expansion Cohort
Miguel Quintela-Fandino, Christophe Le Tourneau, Ignacio Duran, Eric X. Chen, Lisa Wang, Ming Tsao, Bizhan Bandarchi-Chamkhaleh, Nhu-Anh Pham, Trevor Do, Martha MacLean, Rakesh Nayyar, Michael W. Tusche, Ur Metser, John J. Wright, Tak W. Mak, and Lillian L. Siu

IFN-β Restricts Tumor Growth and Sensitizes Alveolar Rhabdomyosarcoma to Ionizing Radiation
Thomas L. Sims, Mackenzie McGee, Regan F. Williams, Adriann L. Myers, Lorraine Tracey, J. Blair Hamner, Catherine Ng, Jianrong Wu, M. Waleed Gaber, Beth McCarville, Amit C. Nathwani, and Andrew M. Davidoff
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772  ABL Alternative Splicing Is Quite Frequent in Normal Population - Letter
Inigo Santamaria, Ana S. Pitiot, and Milagros Balbin

772  BCR-ABL1INS35 Is Not Uncommon in CML Patients and Is Related to Resistance and Sensitivity to Inhibitors in CML Treatment - Response
Tai-Sung Lee, Wanlong Ma, Xi Zhang, Maher Albitar, Francis Giles, Jorge Cortes, and Hagop Kantarjian

CORRECTION

Correction: Hormonal Regulation and Distinct Functions of Semaphorin-3B and Semaphorin-3F in Ovarian Cancer

ABOUT THE COVER

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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.