

## Highlights of This Issue 521

### RESEARCH ARTICLES

- 523 **2-Methoxyestradiol Inhibits Barrett's Esophageal Adenocarcinoma Growth and Differentiation through Differential Regulation of the  $\beta$ -Catenin-E-Cadherin Axis**  
Suman Kambhampati, Snigdha Banerjee, Kakali Dhar, Smita Mehta, Inamul Haque, Gopal Dhar, Monami Majumder, Gibanananda Ray, Peter J. Vanveldhuizen, and Sushanta K. Banerjee

- 535 **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 Morioka, Yoshiaki Toyama, Setsuo Hirohashi, Akira Kawai, and Tesshi Yamada

- 545 **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**  
Stephen K. Tahir, John Wass, Mary K. Joseph, Viswanath Devanarayan, Paul Hessler, Haichao Zhang, Steve W. Elmore, Paul E. Kroeger, Christin Tse, Saul H. Rosenberg, and Mark G. Anderson

- 558 **The Mismatch Repair System Modulates Curcumin Sensitivity through Induction of DNA Strand Breaks and Activation of G<sub>2</sub>-M Checkpoint**  
Zhihua Jiang, ShunQian Jin, Jack C. Yalowich, Kevin D. Brown, and Baskaran Rajasekaran

- 569 **Proanthocyanidins Inhibit *In vitro* and *In vivo* Growth of Human Non-Small Cell Lung Cancer Cells by Inhibiting the Prostaglandin E<sub>2</sub> and Prostaglandin E<sub>2</sub> Receptors**  
Som D. Sharma, Syed M. Meeran, and Santosh K. Katiyar

- 581 **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, Godefridus J. Peters, Filippo Cortesi, Armida D'Incecco, Egbert F. Smit, Alfredo Falcone, Jacobus A. Burgers, Armando Santoro, Romano Danesi, Giuseppe Giaccone, and Carmelo Tibaldi

- 594 **Anacardic Acid Inhibits Estrogen Receptor  $\alpha$ -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

- 606 **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

- 617 **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

- 631 **Antiangiogenic Activities of 2,5-Dimethyl-Celecoxib on the Tumor Vasculature**  
Jenilyn J. Virrey, Zhi Liu, Hee-Yeon Cho, Adel Kardosh, Encouse B. Golden, Stan G. Louie, Kevin J. Gaffney, Nicos A. Petasis, Axel H. Schönthal, Thomas C. Chen, and Florence M. Hofman



- 642 **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 Sangthongpitag, 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
- 653 **ABT-869 Inhibits the Proliferation of Ewing Sarcoma Cells and Suppresses Platelet-Derived Growth Factor Receptor  $\beta$  and c-KIT Signaling Pathways**  
Alan K. Ikeda, Dejah R. Judelson, Noah Federman, Keith B. Glaser, Elliot M. Landaw, Christopher T. Denny, and Kathleen M. Sakamoto
- 661 **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
- 673 **Efficacy of PHA-848125, a Cyclin-Dependent Kinase Inhibitor, on the K-Ras<sup>G12D</sup>LA2 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
- 682 **Doxorubicin Resistance in a Novel *In vitro* Model of Human Pleomorphic Liposarcoma Associated with Alternative Lengthening of Telomeres**  
Marcy A. Mitchell, Jay E. Johnson, Kara Pascarelli, Neil Beeharry, Maria Chiourea, Sarantis Gagos, Dina Lev, Margaret von Mehren, David Kipling, and Dominique Broccoli
- 693 **Interactions of the p53 Protein Family in Cellular Stress Response in Gastrointestinal Tumors**  
Anna E. Vilgelm, Mary K. Washington, Jinxiong Wei, Heidi Chen, Vladimir S. Prassolov, and Alexander I. Zaika
- 706 **Molecular Pharmacology and Antitumor Activity of PHT-427, a Novel Akt/Phosphatidylinositide-Dependent Protein Kinase 1 Pleckstrin Homology Domain Inhibitor**  
Emmanuelle J. Meuillet, Song Zuohe, Robert Lemos, Nathan Ihle, John Kingston, Ryan Watkins, Sylvester A. Moses, Shuxing Zhang, Lei Du-Cuny, Roy Herbst, Jörg J. Jacoby, Li Li Zhou, Ali M. Ahad, Eugene A. Mash, D. Lynn Kirkpatrick, and Garth Powis
- 718 **Alisol B, a Novel Inhibitor of the Sarcoplasmic/Endoplasmic Reticulum Ca<sup>2+</sup> ATPase Pump, Induces Autophagy, Endoplasmic Reticulum Stress, and Apoptosis**  
Betty Y.K. Law, Mingfu Wang, Dik-Lung Ma, Fawaz Al-Mousa, 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
- 731 **Wnt Inhibitory Factor 1 Decreases Tumorigenesis and Metastasis in Osteosarcoma**  
Elyssa M. Rubin, Yi Guo, Khoa Tu, Jun Xie, Xiaolin Zi, and Bang H. Hoang
- 742 **Sorafenib Inhibits STAT3 Activation to Enhance TRAIL-Mediated Apoptosis in Human Pancreatic Cancer Cells**  
Shengbing Huang and Frank A. Sinicrope
- 751 **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-Ann Pham, Trevor Do, Martha MacLean, Rakesh Nayyar, Michael W. Tusche, Ur Metser, John J. Wright, Tak W. Mak, and Lillian L. Siu
- 761 **IFN- $\beta$  Restricts Tumor Growth and Sensitizes Alveolar Rhabdomyosarcoma to Ionizing Radiation**  
Thomas L. Sims, Mackenzie McGee, Regan F. Williams, Adrienne L. Myers, Lorraine Tracey, J. Blair Hamner, Catherine Ng, Jianrong Wu, M. Waleed Gaber, Beth McCarville, Amit C. Nathwani, and Andrew M. Davidoff

772 | **ABL Alternative Splicing Is Quite Frequent in Normal Population - Letter**

Iñigo Santamaria, Ana S. Pitiot, and Milagros Balbin

773 | **BCR-ABL1<sup>INS35</sup> 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

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

### ABOUT THE COVER

ABT-263 is an inhibitor of the Bcl-2 family members Bcl-2, Bcl-x<sub>L</sub>, 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.

