REVIEW

1691 BH3 Mimetics: Status of the Field and New Developments
Christian Billard

SMALL MOLECULE THERAPEUTICS

1701 Pharmacologic Inhibition of MEK Signaling Prevents Growth of Canine Hemangiosarcoma

1715 AZD3514: A Small Molecule That Modulates Androgen Receptor Signaling and Function In Vitro and In Vivo

LARGE MOLECULE THERAPEUTICS

1728 Smac Mimetics in Combination with TRAIL Selectively Target Cancer Stem Cells in Nasopharyngeal Carcinoma
Man-si Wu, Guang-feng Wang, Zhi-qiang Zhao, Yi Liang, Heng-bang Wang, Miao-yi Wu, Ping Min, Li-zhen Chen, Qi-sheng Feng, Jin-xin Bei, Yi-xin Zeng, and Dajun Yang

1738 Targeting Protein Tyrosine Phosphatase SHP2 for the Treatment of PTPN11-Associated Malignancies

1749 S49076 Is a Novel Kinase Inhibitor of MET, AXL, and FGFR with Strong Preclinical Activity Alone and in Association with Bevacizumab
Mike F. Burbridge, Céline J. Bossard, Carine Saunier, Imre Fejes, Alain Bruno, Stéphane Léonce, Gilles Ferry, Georges Da Violante, François Bouzom, Valérie Cattan, Anne Jacquet-Bescand, Paolo M. Comoglio, Brian P. Lockhart, Jean A. Boutin, Alex Cordi, Jean-Claude Ortuno, Alain Pierré, John A. Hickman, Francisco H. Cruzalegui, and Stéphane Depil

1763 Synergistic Induction of Apoptosis in Multiple Myeloma Cells by Bortezomib and Hypoxia-Activated Prodrug TH-302, In Vivo and In Vitro
Jinsong Hu, Els Van Vankelenborgh, Dehui Xu, Eline Menu, Hendrik De Raeye, Elke De Bryune, Song Xu, Ben Van Camp, Damian Handsides, Charles P. Hart, and Karin Vanderkerken

CANCER THERAPEUTICS INSIGHTS

1774 Targeted Cytolysins Synergistically Potentiate Cytoplasmic Delivery of Gelonin Immunotoxin
Christopher M. Pirie, David V. Liu, and K. Dane Wittrup

1783 Combined Inhibition of HER1/EGFR and RAC1 Results in a Synergistic Antiproliferative Effect on Established and Primary Cultured Human Glioblastoma Cells

1796 Cyclin G1 Expands Liver Tumor-Initiating Cells by Sox2 Induction via Akt/mTOR Signaling
Wen Wen, Tao Han, Cheng Chen, Lei Huang, Wen Sun, Xue Wang, Shu-Zhen Chen, Dai-Min Xiang, Liang Tang, Dan Cao, Gen-Sheng Feng, Meng-Chao Wu, Jin Ding, and Hong-Yang Wang
### An Autocrine Loop between TGF-β1 and the Transcription Factor Brachyury Controls the Transition of Human Carcinoma Cells into a Mesenchymal Phenotype
Cecilia Larocca, Joseph R. Cohen, Romaine I. Fernando, Bruce Huang, Duane H. Hamilton, and Claudia Palena

### Impact of Tumor HER2/ERBB2 Expression Level on HER2-Targeted Liposomal Doxorubicin-Mediated Drug Delivery: Multiple Low-Affinity Interactions Lead to a Threshold Effect
Bart S. Hendriks, Stephan G. Klinz, Joseph G. Reynolds, Christopher W. Espelin, Daniel F. Gaddy, and Thomas J. Wickham

### Inhibition of ABCB1 Expression Overcomes Acquired Docetaxel Resistance in Prostate Cancer
Yezhi Zhu, Chengfei Liu, Nagalakshmi Nadiminty, Wei Lou, Ramakumar Tummala, Christopher P. Evans, and Allen C. Gao

### Ethacrynic Acid Oxadiazole Analogs Induce Apoptosis in Malignant Hematologic Cells through Downregulation of Mcl-1 and c-FLIP, Which Was Attenuated by GSTP1-1
Guyue Liu, Rui Wang, Yuetong Wang, Pengzhan Li, Guisen Zhao, Lixiang Zhao, and Yongkui Jing

### Sulindac Selectively Inhibits Colon Tumor Cell Growth by Activating the cGMP/PKG Pathway to Suppress Wnt/β-Catenin Signaling
Nan Li, Yaguang Xi, Heather N. Tinsley, Evrim Gurpinar, Bernard D. Gary, Bing Zhu, Yonghe Li, Xi Chen, Adam B. Keeton, Ashraf H. Abadi, Mary P. Moyer, William E. Grizzle, Sanjiv S. Gambhir

### Chk1/2 Inhibition Overcomes the Cisplatin Resistance of Head and Neck Cancer Cells Secondary to the Loss of Functional p53
Mayur A. Gadhikar, Maria Rita Sciuto, Marcus Vinicius Ortega Alves, Curtis R. Pickering, Abdulllah A. Osman, David M. Neskey, Mei Zhao, Alison L. Fitzgerald, Jeffrey N. Myers, and Mitchell J. Frederick

### BCL-2 Hypermethylation Is a Potential Biomarker of Sensitivity to Antimitotic Chemotherapy in Endocrine-Resistant Breast Cancer

### Apoptotic Circulating Tumor Cells in Early and Metastatic Breast Cancer Patients
Galatea Kallergi, Georgios Konstantinidis, Harris Markomanolaki, Maria A. Papadaki, Dimitris Mavroudis, Christos Stournaras, Vassilis Georgoulis, and Sofia Agelaki

### A c-Myc Activation Sensor-Based High-Throughput Drug Screening Identifies an Antineoplastic Effect of Nitazoxanide
Hua Fan-Minogue, Sandhya Bodapati, David Solow-Cordero, Alice Fan, Ramasamy Paulmurugan, Tariq F. Massoud, Dean W. Felsher, and Sanjiv S. Gambhir

### NF1 Deletion Generates Multiple Subtypes of Soft-Tissue Sarcoma That Respond to MEK Inhibition
Rebecca D. Dodd, Jeffrey K. Mito, William C. Eward, Rhea Chitalia, Mohit Sachdeva, Yan Ma, Jordi Barretina, Leslie Dodd, and David G. Kirsch

### O. Michael Colvin, MD: In Memoriam (1936–2013)

### Correction: MPT0B098, a Novel Microtubule Inhibitor That Destabilizes the Hypoxia-Inducible Factor-1α mRNA through Decreasing Nuclear-Cytoplasmic Translocation of RNA-Binding Protein HuR
CONTINUED ANDROGEN RECEPTOR (AR) EXPRESSION AND SIGNALING IS A KEY DRIVER IN CASTRATION-RESISTANT PROSTATE CANCER (CRPC). AZD3514 IS AN ORALLY BIOAVAILABLE DRUG THAT INHIBITS ANDROGEN-DEPENDENT AND -INDEPENDENT AR SIGNALING IN VITRO AND IN VIVO. USING IMMUNOHISTOCHEMISTRY, R3327H PROSTATE TUMORS WERE SCORED FOR INTENSITY OF NUCLEAR AR TO ASSESS THE IMPACT OF AZD3514 ON AR. FOR MORE DETAILS, SEE ARTICLE BY LODDICK AND COLLEAGUES ON PAGE 1715.