Highlights of This Issue 1019

REVIEW

1021 Picking the Point of Inhibition: A Comparative Review of PI3K/AKT/mTOR Pathway Inhibitors
Rodrigo Dienstmann, Jordi Rodon, Violeta Serra, and Josep Tabernero

SMALL MOLECULE THERAPEUTICS

1032 Enhancement of Nab-Paclitaxel Antitumor Activity through Addition of Multitargeting Antiangiogenic Agents in Experimental Pancreatic Cancer
Niranjan Awasthi, Changhua Zhang, Anna M. Schwarz, Stefan Hinz, Margaret A. Schwarz, and Roderich E. Schwarz

1044 The Phosphoinositide 3-Kinase Selective Inhibitor BYL719 Enhances the Effect of the Protein Kinase C Inhibitor AEB071 in GNAQ/GNA11-Mutant Uveal Melanoma Cells
Elgilda Musi, Grazia Ambrosini, Elisa de Stanchina, and Gary K. Schwartz

1054 Centimitor-1, a Novel Acridinyl-Acetohydrazide, Possesses Similar Molecular Interaction Field and Antimitotic Cellular Phenotype as Rigosertib, ON 01910.Na
Jenni H.E. Mäki-Jouppila, Leena J. Laine, Jonathan Rehnberg, Pekka Tiikkainen, Elvira Hukasova, Arne Lindqvist, Lila Kallio, Marko J. Kallio

1067 Preclinical Evaluation of the Supercritical Extract of Azadirachta Indica (Neem) Leaves In Vitro and In Vivo on Inhibition of Prostate Cancer Tumor Growth
Qiang Wu, Manish Kohli, H. Robert. Bergen III, John C. Cheville, Jeffrey Karmes, Hong Cao, Charles Y.F. Young, Donald J. Tindall, Mark A. McNiven, and Krishna Vanaja Donkena

1078 Characterization of the Activity of the PI3K/mTOR Inhibitor XL765 (SAR245409) in Tumor Models with Diverse Genetic Alterations Affecting the PI3K Pathway

1092 UPARANT: A Urokinase Receptor–Derived Peptide Inhibitor of VEGF-Driven Angiogenesis with Enhanced Stability and In Vitro and In Vivo Potency
Maria Vincenzo Carriero, Katia Bifulco, Michele Minopoli, Liliana Lista, Ornella Maglio, Luigi Mele, Gioconda Di Carlo, Mario De Rosa, and Vincenzo Pavone

1105 Preclinical Pharmacological Evaluation of a Novel Multiple Kinase Inhibitor, ON123300, in Brain Tumor Models
Xiaoping Zhang, Hua Lv, Qingyu Zhou, Rana Elkholi, Jerry E. Chipuk, M.V. Ramana Reddy, E. Premkumar Reddy, and James M. Gallo

1117 Characterization of the Novel and Specific PI3Ka Inhibitor NVP-BYL719 and Development of the Patient Stratification Strategy for Clinical Trials

1130 Protein Kinase D as a Potential Chemotherapeutic Target for Colorectal Cancer
Ning Wei, Edward Chu, Peter Wipf, and John C. Schmitz
1142 Highly Active Combination of BRD4 Antagonist and Histone Deacetylase Inhibitor against Human Acute Myelogenous Leukemia Cells
See related article, p. 1194

1155 Combination of Imatinib with CXCR4 Antagonist BKT140 Overcomes the Protective Effect of Stroma and Targets CML In Vitro and In Vivo
Katia Beider, Merav Darash-Yahana, Orly Blaier, Maya Koren-Michowitz, Michal Abraham, Hanna Wald, Ori Wald, Eithan Galun, Orly Eizenberg, Amnon Peled, and Arnon Nagler

1170 The Use of Olaparib (AZD2281) Potentiates SN-38 Cytotoxicity in Colon Cancer Cells by Indirect Inhibition of Rad51-Mediated Repair of DNA Double-Strand Breaks
Makiko Tahara, Takeshi Inoue, Futoshi Sato, Yasuyuki Miyakura, Hisanaga Horie, Yoshikazu Asuda, Hirofumi Fujii, Kenjiro Kotake, and Kokichi Sugano

1181 A Novel Temozolomide–Perillyl Alcohol Conjugate Exhibits Superior Activity against Breast Cancer Cells In Vitro and Intracranial Triple-Negative Tumor Growth In Vivo
Thomas C. Chen, Hee-Yeon Cho, Weijun Wang, Manasi Barath, Natasha Sharma, Florence M. Hofman, and Axel H. Schonthal

1194 Targeting STAT5 in Hematologic Malignancies through Inhibition of the Bromodomain and Extra-Terminal (BET) Bromodomain Protein BRD2
Suhu Liu, Sarah R. Walker, Erik A. Nelson, Robert Cerulli, Michael Xiang, Patricia A. Tonioolo, Jun Qi, Richard M. Stone, Martha Wadleigh, James E. Bradner, and David A. Frank
See related article, p. 1142

1206 Embelin Reduces Colitis-Associated Tumorigenesis through Limiting IL-6/STAT3 Signaling
Yun Dai, Hongmei Jiao, Guigen Teng, Weihong Wang, Rongxin Zhang, Yunhong Wang, Lionel Hebbard, Jacob George, and Liang Qiao

1217 Ponatinib Induces Apoptosis in Imatinib-Resistant Human Mast Cells by Dephosphorylating Mutant D816V KIT and Silencing β-Catenin Signaling
Bei Jin, Ke Ding, and Jingxuan Pan

1231 PIM Kinases Are Essential for Chronic Lymphocytic Leukemia Cell Survival (PIM2/3) and CXCR4-Mediated Microenvironmental Interactions (PIM1)

1246 Pharmacologic Suppression of JAK1/2 by JAK1/2 Inhibitor AZD1480 Potently Inhibits IL-6–Induced Experimental Prostate Cancer Metastases Formation
Lei Gu, Pooja Talati, Faraskevi Vogiatzi, Ana L. Romero-Weaver, Junaid Abdulghani, Zhiyong Liao, Benjamin Leiby, David T. Hoang, Tuomas Mirtti, Kalle Alalen, Michael Zinda, Dennis Huszar, and Marja T. Nevalainen

1259 Hedgehog Pathway Inhibition in Chondrosarcoma Using the Smoothened Inhibitor IPI-926 Directly Inhibits Sarcoma Cell Growth

1285 Identification of Transmembrane Protein 98 as a Novel Chemoresistance-Conferring Gene in Hepatocellular Carcinoma
Kevin Tak-Pan Ng, Chung Mau Lo, Dong Yong Guo, Xiang Qi, Chang Xian Li, Wei Geng, Xiao Bing Liu, Chang Chun Ling, Yuen Yuen Ma, Wai Ho Yeung, Yan Shao, Ronnie Tung-Ping Poon, Sheung Tat Fan, and Kwan Man
ABOUT THE COVER

Angiogenesis is important for tumor progression. In squamous cell carcinoma of the head and neck (SCCHN), angiogenesis is activated by cytokines including IL-6 and VEGF. Galanin receptor 2 (GALR2) is a G protein–coupled receptor that induces aggressive growth in SCCHN. GALR2 stimulates tumor angiogenesis in SCCHN via p38-mediated inhibition of tristetraprolin (TTP) with resultant enhanced cytokine secretion. Given that p38 inhibitors are in clinical use for inflammatory disorders, GALR2/p38-mediated cytokine secretion may be an excellent target for new adjuvant therapy in SCCHN. For details, see article by Banerjee, Van Tubergen, and colleagues on page 1323.
Molecular Cancer Therapeutics

13 (5)


Updated version  Access the most recent version of this article at: http://mct.aacrjournals.org/content/13/5

E-mail alerts  Sign up to receive free email-alerts related to this article or journal.
Reprints and Subscriptions  To order reprints of this article or to subscribe to the journal, contact the AACR Publications Department at pubs@aacr.org.
Permissions  To request permission to re-use all or part of this article, contact the AACR Publications Department at permissions@aacr.org.