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Contents

Highlights of This Issue 2075

THERAPEUTIC DISCOVERY

2077 Evaluating the Therapeutic Potential of a Non-Natural Nucleotide That Inhibits Human Ribonucleotide Reductase
Md. Faiz Ahmad, Qun Wan, Shalinij Ha, Edward Motea, Anthony Berdis, and Chris Dealwis

2087 Targeting TRAIL Death Receptor 4 with Trivalent DR4 Atrimer Complexes

2096 A New Nonestrogenic Steroidal Inhibitor of 17b-Hydroxysteroid Dehydrogenase Type I Blocks the Estrogen-Dependent Breast Cancer Tumor Growth Induced by Estrone
Diana Ayan, René Maltais, Jenny Roy, and Donald Poirier

2105 Reexpression of Tumor Suppressor, sFRP1, Leads to Antitumor Synergy of Combined HDAC and Methyltransferase Inhibitors in Chemoresistant Cancers
Simon J. Cooper, Christina A. von Roemeling, Kylie H. Kang, Laura A. Marlow, Stefan K. Grebe, Michael E. Menefee, Han W. Tun, Gerardo Colon-Otero, Edith A. Perez, and John A. Copland

2116 The Inhibitor of Histone Deacetylases Sodium Butyrate Enhances the Cytotoxicity of Mitomycin C
Anastas Gospodinov, Stanislava Popova, Ivelina Vassileva, and Boyka Anachkova

2127 Cell Intrinsic Role of COX-2 in Pancreatic Cancer Development
Reginald Hill, Yunfeng Li, Linn M. Tran, Sarah Dry, Joseph Hargan Calvopina, Alejandro Garcia, Christine Kim, Ying Wang, Timothy R. Donahue, Harvey R. Herschman, and Hong Wu

2138 Cdk4/6 Inhibition Induces Epithelial–Mesenchymal Transition and Enhances Invasiveness in Pancreatic Cancer Cells
Fang Liu and Murray Korc

PRECLINICAL DEVELOPMENT

2149 Combined Therapy with Mutant-Selective EGFR Inhibitor and Met Kinase Inhibitor for Overcoming Erlotinib Resistance in EGFR-Mutant Lung Cancer
Takayuki Nakagawa, Shinji Takeuchi, Tadaaki Yamada, Shiigi Nanjo, Daisuke Ishikawa, Takako San, Kenji Kita, Takahiro Nakamura, Kunio Matsumoto, Kenich Suda, Tetsuya Mitsudomi, Yoshitaka Sekido, Toshimitsu Uenaka, and Seiji Yano

2158 Calcium Channel TRPV6 as a Potential Therapeutic Target in Estrogen Receptor-Negative Breast Cancer

2169 A Cell-Penetrating Bispecific Antibody for Therapeutic Regulation of Intracellular Targets
Richard H. Weisbart, Joseph F. Gera, Grace Chan, James E. Hansen, Erica Li, Cheri Cloninger, Arnold J. Levine, and Robert N. Nishimura

2174 PKCδ Regulates Death Receptor 5 Expression Induced by PS-341 through ATF4–ATF3/CHOP Axis in Human Lung Cancer Cells
Linyan Xu, Ling Su, and Xiangguo Liu

2183 Active Efflux of Dasatinib from the Brain Limits Efficacy against Murine Glioblastoma: Broad Implications for the Clinical Use of Molecularly Targeted Agents
Sagar Agarwal, Rajendar K. Mittapalli, David M. Zellmer, Jose L. Gallardo, Randy Donelson, Charlie Seiler, Stacy A. Decker, Karen S. SantaCruz, Jenny L. Pokorny, Jann N. Sarkaria, William F. Elmquist, and John R. Ohlfest
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2193</td>
<td>Garcinol Regulates EMT and Wnt Signaling Pathways In Vitro and In Vivo, Leading to Anticancer Activity against Breast Cancer Cells</td>
<td>Aamir Ahmad, Sanila H. Sarkar, Bassam Bitar, Shadan Ali, Amro Aboukameel, Seema Sethi, Yiwei Li, Bin Bao, Dejuan Kong, Sanjeev Banerjee, Subhash B. Padhye, and Fazlul H. Sarkar</td>
</tr>
<tr>
<td>2202</td>
<td>An Optical Probe for Noninvasive Molecular Imaging of Orthotopic Brain Tumors Overexpressing Epidermal Growth Factor Receptor</td>
<td>Richard S. Agnes, Ann-Marie Broome, Jing Wang, Anjali Verma, Kari Lavik, and James P. Basilion</td>
</tr>
<tr>
<td>2212</td>
<td>Targeting the IKKβ/mTOR/VEGF Signaling Pathway as a Potential Therapeutic Strategy for Obesity-Related Breast Cancer</td>
<td>Chun-Te Chen, Yi Du, Hirohito Yamauchi, Jung-Mao Hsu, Hsu-Ping Kuo, Gabriel N. Hortobagyi, and Mien-Chie Hung</td>
</tr>
<tr>
<td>2233</td>
<td>Antitumor Activity of Triolimus: A Novel Multidrug-Loaded Micelle Containing Paclitaxel, Rapamycin, and 17-AAG</td>
<td>Jason R. Hasenstein, Ho-Chul Shin, Kelsey Kasmerchak, Darya Buehler, Glen S. Kwon, and Kevin R. Kozak</td>
</tr>
<tr>
<td>2243</td>
<td>Drug Resistance to Inhibitors of the Human Double Minute-2 E3 Ligase Is Mediated by Point Mutations of p53, but Can Be Overcome with the p53 Targeting Agent RITA</td>
<td>Richard J. Jones, Chad C. Bjorklund, Veerabhadran Baladandayuthapani, Deborah J. Kuhn, and Robert Z. Orlowski</td>
</tr>
<tr>
<td>2254</td>
<td>Activation of IL-6R/JAK1/STAT3 Signaling Induces De Novo Resistance to Irreversible EGFR Inhibitors in Non–Small Cell Lung Cancer with T790M Resistance Mutation</td>
<td>Sun Mi Kim, Oh-Joon Kwon, Yun Kyoung Hong, Joo Hang Kim, Flavio Solca, Sang-Jun Ha, Ross A. Soo, James G. Christensen, Ji Hyun Lee, and Byoung Chul Cho</td>
</tr>
<tr>
<td>2265</td>
<td>BAY 1000394, a Novel Cyclin-Dependent Kinase Inhibitor, with Potential Antitumor Activity in Mono- and in Combination Treatment upon Oral Application</td>
<td>Gerhard Siemeister, Ulrich Lücking, Antje M. Wengner, Philip Lienau, Wolfram Steinke, Christoph Schatz, Dominik Mumberg, and Karl Ziegelbauer</td>
</tr>
<tr>
<td>2284</td>
<td>Sorafenib-Induced Hepatocellular Carcinoma Cell Death Depends on Reactive Oxygen Species Production In Vitro and In Vivo</td>
<td>Romain Coriat, Carole Nicco, Christiane Chéreau, Olivier Mir, Jérôme Alexandre, Stanislas Ropert, Bernard Weill, Stanislas Chaussade, François Goldwasser, and Frédéric Batteux</td>
</tr>
<tr>
<td>2294</td>
<td>Targeting the Glyoxalase Pathway Enhances TRAIL Efficacy in Cancer Cells by Downregulating the Expression of Antiapoptotic Molecules</td>
<td>Hiroya Taniguchi, Mano Horinaka, Tatsushi Yoshida, Kimihiro Yano, Ahmed E. Goda, Shusuke Yasuda, Miki Wakada, and Toshiyuki Sakai</td>
</tr>
<tr>
<td>2301</td>
<td>Discordant Cellular Response to Presurgical Letrozole in Bilateral Synchronous ER+ Breast Cancers with a KRAS Mutation or FGFR1 Gene Amplification</td>
<td>Justin M. Balko, Ingrid A. Mayer, Melinda E. Sanders, Todd W. Miller, Maria G. Kuba, Ingrid M. Meszoely, Nikhil Wagle, Levi A. Garraway, and Carlos L. Arteaga</td>
</tr>
</tbody>
</table>
LETTERS TO THE EDITOR

New Directions for Biologic Targets in Urothelial Carcinoma – Letter
Andrea Necchi, Luigi Mariani, Nadia Zaffaroni, Patrizia Giannatempo, and Roberto Salvioni

New Directions for Biologic Targets in Urothelial Carcinoma – Response
Srikala S. Sridhar and Suzanne Richter

ABOUT THE COVER

Cyclooxygenase-2 (COX-2) is upregulated in pancreatic ductal adenocarcinomas (PDAC). However, COX-2 inhibition has not shown significant improvements in the survival of patients with metastatic PDAC. The cell-intrinsic role of COX-2 in PDAC progression was tested using both loss-of-function and gain-of-function approaches. Cox-2 deletion significantly delays the development of PDAC in mice. However, all animals ultimately succumbed to PDACs, suggesting that tumors can compensate for COX-2 loss through other mechanisms. Using immunofluorescence, it was found that membrane-associated GRP78 expression was associated with poor prognosis in a number of human cancers and was recently identified as a critical factor in protecting cells from cell death, and also colocalized with P-AKT expression in tumors with COX-2 deletion. Together, these results suggest that, while anti-COX-2 therapy may delay the development and progression of PDAC, mechanisms known to increase chemoresistance through AKT activation must also be overcome. For details, see article by Hill and colleagues on page 2127.
Molecular Cancer Therapeutics

11 (10)


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