Highlights of This Issue 2251

SMALL MOLECULE THERAPEUTICS

2253  The CDK4/6 Inhibitor LY2835219 Overcomes Vemurafenib Resistance Resulting from MAPK Reactivation and Cyclin D1 Upregulation

2264  Inhibition of Endoglin–GIPC Interaction Inhibits Pancreatic Cancer Cell Growth

2276  Drug Repurposing Identifies a Synergistic Combination Therapy with Imatinib Mesylate for Gastrointestinal Stromal Tumor
Ziyan Y. Pessetto, Yan Ma, Jeff J. Hirst, Margaret von Mehren, Scott J. Weir, and Andrew K. Godwin

2288  Synergistic Simvastatin and Metformin Combination Chemotherapy for Osseous Metastatic Castration-Resistant Prostate Cancer
Melissa A. Babcook, Sanjeev Shukla, Pingfu Fu, Edwin J. Vazquez, Michelle A. Puchowicz, Joseph P. Molter, Christine Z. Oak, Gregory T. MacLennan, Chris A. Flask, Daniel J. Lindner, Yvonne Parker, Firouz Daneshgari, and Sanjay Gupta

2303  The CREB-Binding Protein Inhibitor ICG-001 Suppresses Pancreatic Cancer Cell Growth
Michael D. Arensman, Donatella Teleca, Anna R. Lay, Kathleen M. Kershaw, Nanping Wu, Timothy R. Donahue, and David W. Dawson

2315  BET Protein Antagonist JQ1 Is Synergistically Lethal with FLT3 Tyrosine Kinase Inhibitor (TKI) and Overcomes Resistance to FLT3-TKI in AML Cells Expressing FLT-ITD

2328  Nanolipolee-007, a Novel Nanoparticle-Based Drug Containing Leelamine for the Treatment of Melanoma
Raghavendra Gowda, SubbaRao V. Madhunapantula, Arati Sharma, Omer F. Kuzu, and Gavin P. Robertson

LARGE MOLECULE THERAPEUTICS

2341  Redirected T-Cell Killing of Solid Cancers Targeted with an Anti-CD3/Trop-2–Bispecific Antibody Is Enhanced in Combination with Interferon-α
Edmund A. Rossi, Diane L. Rossi, Thomas M. Cardillo, Chien-Hsing Chang, and David M. Goldenberg

2352  Systemic Delivery of a miR34a Mimic as a Potential Therapeutic for Liver Cancer
Christopher L. Daige, Jason F. Wiggins, Leslie Priddy, Terri Nelligan-Davis, Jane Zhao, and David Brown

CANCER BIOLOGY AND SIGNAL TRANSDUCTION

2361  Lipid Catabolism via CPT1 as a Therapeutic Target for Prostate Cancer

2372  Prostate Cancer Cell Response to Paclitaxel Is Affected by Abnormally Expressed Securin PTTG1
Carolina Castillo, M. Luz Flores, Rafael Medina, Begoña Pérez-Valderrama, Francisco Romero, María Tortolero, Miguel A. Japón, and Carmen Sáez

2384  Regulation of OSU-03012 Toxicity by ER Stress Proteins and ER Stress–Inducing Drugs
Laurence Booth, Jane L. Roberts, Nichola Cruickshanks, Steven Grant, Andrew Poklepovic, and Paul Dent

2399  Temozolomide Induces the Production of Epidermal Growth Factor to Regulate MDR1 Expression in Glioblastoma Cells
Jessian L. Munoz, Vivian Rodriguez-Cruz, Steven J. Greco, Vipul Nagula, Kathleen W. Scotto, and Pranela Rameshwar
### Table of Contents

**2412**  
BRCA2 and RAD51 Promote Double-Strand Break Formation and Cell Death in Response to Gemcitabine  
Rebecca M. Jones, Panagiotis Kotsantis, Grant S. Stewart, Petra Groth, and Eva Petermann

**2422**  
Piperlongumine Chemosensitizes Tumor Cells through Interaction with Cysteine 179 of IκBα Kinase, Leading to Suppression of NF-κB–Regulated Gene Products  
Jia Gang Han, Subash C. Gupta, Sahdeo Prasad, and Bharat B. Aggarwal

**2436**  
Calpain-Mediated Integrin Deregulation as a Novel Mode of Action for the Anticancer Gallium Compound KP46  

### MODELS AND TECHNOLOGIES

**2450**  
An In Vivo Antilymphatic Screen in Zebrafish Identifies Novel Inhibitors of Mammalian Lymphangiogenesis and Lymphatic-Mediated Metastasis  
Jonathan W. Astin, Stephen M.P. Jamieson, Tiffany C.Y. Eng, Maria V. Flores, June P. Misa, Annie Chien, Kathryn E. Crosier, and Philip S. Crosier

**2463**  
Integrated Analysis of Transcriptomes of Cancer Cell Lines and Patient Samples Reveals STK11/LKB1–Driven Regulation of cAMP Phosphodiesterase-4D  
Ningning He, Nayoung Kim, Mee Song, Choa Park, Somin Kim, Eun Young Park, Hwa Young Yim, Kyung Kim, Jong Hoon Park, Keun Il Kim, Fan Zhang, Gordon B. Mills, and Sukjoon Yoon

### ABOUT THE COVER

Zebrafish embryos can be used to examine mechanisms of vascular development and as a platform with which to identify novel antivascular agents; this is an image of a 2-day-old zebrafish embryo showing developing lymphatic vessels in green (lyve1:egfp) and endothelial cell nuclei in red (kdrl:nls:mcherry). This embryo was live imaged for a further 20 hours to identify novel inhibitors of lymphatic vessel growth and revealed that flunarizine, a calcium channel antagonist, was able specifically induce lymphatic endothelial cell death. For details, see the article by Astin and colleagues on page 2450.