


## Highlights of This Issue 553

## REVIEW


- 555**  **MET in Lung Cancer: Biomarker Selection Based on Scientific Rationale**  
Ravi Salgia

## SMALL MOLECULE THERAPEUTICS

- 566** **AZD6738, A Novel Oral Inhibitor of ATR, Induces Synthetic Lethality with ATM Deficiency in Gastric Cancer Cells**  
Ahrum Min, Seock-Ah Im, Hyemin Jang, Seongyeong Kim, Miso Lee, Debora Keunyoung Kim, Yaewon Yang, Hee-Jun Kim, Kyung-Hun Lee, Jin Won Kim, Tae-Yong Kim, Do-Youn Oh, Jeff Brown, Alan Lau, Mark J. O'Connor, and Yung-lue Bang
- 578** **Suppression of the Growth and Invasion of Human Head and Neck Squamous Cell Carcinomas via Regulating STAT3 Signaling and the miR-21/ $\beta$ -catenin Axis with HJC0152**  
Yu Wang, Sinan Wang, Yansheng Wu, Yu Ren, Zhaoqing Li, Xiaofeng Yao, Chao Zhang, Na Ye, Chao Jing, Jiabin Dong, Kailiang Zhang, Shanshan Sun, Minghui Zhao, Wenyu Guo, Xin Qu, Yu Qiao, Haiying Chen, Lingping Kong, Rui Jin, Xudong Wang, Lun Zhang, Jia Zhou, Qiang Shen, and Xuan Zhou
- 591** **Combining Chk1/2 Inhibition with Cetuximab and Radiation Enhances *In Vitro* and *In Vivo* Cytotoxicity in Head and Neck Squamous Cell Carcinoma**  
Ling Zeng, Reena R. Beggs, Tiffany S. Cooper, Alice N. Weaver, and Eddy S. Yang
- 601** **15 $\alpha$ -methoxyppuuephenol Induces Antitumor Effects *In Vitro* and *In Vivo* against Human Glioblastoma and Breast Cancer Models**  
Tyvette S. Hilliard, Gabriella Miklossy, Christopher Chock, Peibin Yue, Philip Williams, and James Turkson
- 614**  **Akt Activation Mediates Acquired Resistance to Fibroblast Growth Factor Receptor Inhibitor BGJ398**  
Jhama Datta, Senthilkumar Damodaran, Hannah Parks, Cristina Ocrainiciu, Jhama Miya, Lianbo Yu, Elijah P. Gardner, Eric Samorodnitsky, Michele R. Wing, Darshna Bhatt, John Hays, Julie W. Reeser, and Sameek Roychowdhury
- 625** **A Prodrug of Two Approved Drugs, Cisplatin and Chlorambucil, for Chemo War Against Cancer**  
Rakesh K. Pathak, Ru Wen, Nagesh Kolishetti, and Shanta Dhar

- 637** **PI3K Inhibitors Synergize with FGFR Inhibitors to Enhance Antitumor Responses in FGFR2<sup>mutant</sup> Endometrial Cancers**  
Leisl M. Packer, Xinyan Geng, Vanessa F. Bonazzi, Robert J. Ju, Clare E. Mahon, Margaret C. Cummings, Sally-Anne Stephenson, and Pamela M. Pollock
- 649** **Reactive Oxygen Species–Mediated Synergism of Fenretinide and Romidepsin in Preclinical Models of T-cell Lymphoid Malignancies**  
Monish R. Makena, Balakrishna Koneru, Tinh H. Nguyen, Min H. Kang, and C. Patrick Reynolds

## LARGE MOLECULE THERAPEUTICS

- 662** **Preclinical Evaluation of Sequential Combination of Oncolytic Adenovirus Delta-24-RGD and Phosphatidylserine-Targeting Antibody in Pancreatic Ductal Adenocarcinoma**  
Bingbing Dai, David Roife, Ya'an Kang, Joy Gumin, Mayrim V. Rios Perez, Xinqun Li, Michael Pratt, Rolf A. Brekken, Juan Fueyo-Margareto, Frederick F. Lang, and Jason B. Fleming
- 671** **Anti-KIT Monoclonal Antibody Treatment Enhances the Antitumor Activity of Immune Checkpoint Inhibitors by Reversing Tumor-Induced Immunosuppression**  
Andrew J. Garton, Scott Seibel, Lori Lopresti-Morrow, Linda Crew, Neal Janson, Sreekala Mandiyan, E. Sergio Trombetta, Shannon Pankratz, Theresa M. LaVallee, and Richard Gedrich
- 681**  **Bispecific Antibodies and Antibody–Drug Conjugates (ADCs) Bridging HER2 and Prolactin Receptor Improve Efficacy of HER2 ADCs**  
Julian Andreev, Nithya Thambi, Andres E. Perez Bay, Frank Delfino, Joel Martin, Marcus P. Kelly, Jessica R. Kirshner, Ashique Rafique, Arthur Kunz, Thomas Nittoli, Douglas MacDonald, Christopher Daly, William Olson, and Gavin Thurston

## CANCER BIOLOGY AND SIGNAL TRANSDUCTION

- 694** **Ras–MEK Signaling Mediates a Critical Chk1-Dependent DNA Damage Response in Cancer Cells**  
Ho-June Lee, Yi Cao, Victoria Pham, Elizabeth Blackwood, Catherine Wilson, Marie Evangelista, Christiaan Klijn, David Stokoe, and Jeff Settleman

# Table of Contents

**705** Insulin-Mediated Signaling Facilitates Resistance to PDGFR Inhibition in Proneural hPDGF $\beta$ -Driven Gliomas

Damian A. Almiron Bonnin, Cong Ran, Matthew C. Havrda, Huan Liu, Yasuyuki Hitoshi, Zhonghua Zhang, Chao Cheng, Matthew Ung, and Mark A. Israel

**717** Nuclear Export of Ubiquitinated Proteins Determines the Sensitivity of Colorectal Cancer to Proteasome Inhibitor

Tingyu Wu, Wei Chen, Yongwang Zhong, Xiaodan Hou, Shengyun Fang, Chen-Ying Liu, Guanghui Wang, Tong Yu, Yu-Yang Huang, Xuesong Ouyang, Henry Q.X. Li, Long Cui, and Yili Yang

**729** *In Vitro* and *In Vivo* Synergistic Antitumor Activity of the Combination of BKM120 and Erlotinib in Head and Neck Cancer: Mechanism of Apoptosis and Resistance

Abu Syed Md Anisuzzaman, Abedul Haque, Dongsheng Wang, Mohammad Aminur Rahman, Chao Zhang, Zhengjia Chen, Zhuo Georgia Chen, Dong M. Shin, and A.R.M. Ruhul Amin

## COMPANION DIAGNOSTICS AND CANCER BIOMARKERS

**739** MALAT1 Is Associated with Poor Response to Oxaliplatin-Based Chemotherapy in Colorectal Cancer Patients and Promotes Chemoresistance through EZH2

Peilong Li, Xin Zhang, Haiyan Wang, Lili Wang, Tong Liu, Luta Du, Yongmei Yang, and Chuanxin Wang

**752** APC Mutations as a Potential Biomarker for Sensitivity to Tankyrase Inhibitors in Colorectal Cancer

Noritaka Tanaka, Tetsuo Mashima, Anna Mizutani, Ayana Sato, Aki Aoyama, Bo Gong, Haruka Yoshida, Yukiko Muramatsu, Kento Nakata, Masaaki Matsuura, Ryohei Katayama, Satoshi Nagayama, Naoya Fujita, Yoshikazu Sugimoto, and Hiroyuki Seimiya

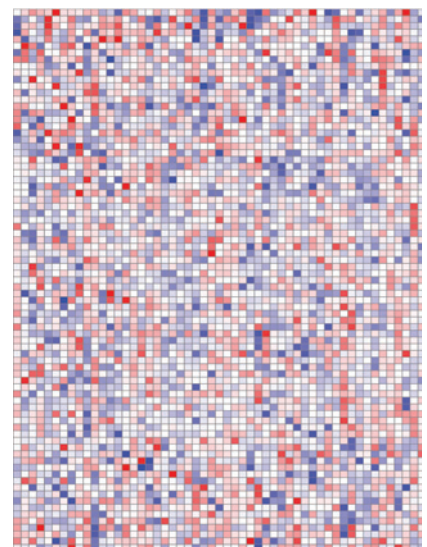
## MODELS AND TECHNOLOGIES

**763** Targeted Treatment of Metastatic Breast Cancer by PLK1 siRNA Delivered by an Antioxidant Nanoparticle Platform

Jingga Morry, Worapol Ngamcherdrakul, Shenda Gu, Moataz Reda, David J. Castro, Thanapon Sangvanich, Joe W. Gray, and Wassana Yantasee

## ABOUT THE COVER

The cover shows a heat map illustrating the receptor tyrosine kinase (RTK) expression levels of a subset of proneural GBM samples from the TCGA database. In this subset of proneural samples IGF1R expression is associated with survival and RTK activity.



# Molecular Cancer Therapeutics

**16 (4)**

*Mol Cancer Ther* 2017;16:553-772.

**Updated version** Access the most recent version of this article at:  
<http://mct.aacrjournals.org/content/16/4>

**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](mailto: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](mailto:permissions@aacr.org).