Molecular Cancer Research

Defining the Molecular Basis of Malignancy and Progression

August 2013 • Volume 11 • Number 8

Contents

Highlights of This Issue 809

PERSPECTIVE

811  On the Regulation and Activation of JAK2: A Novel Hypothetical Model
     Tai-Sung Lee

REVIEW

815  The Changing Mutational Landscape of Acute Myeloid Leukemia and Myelodysplastic Syndrome
     Connie A. Larsson, Gilbert Cote, and Alfonso Quintás-Cardama

CELL DEATH AND SURVIVAL

856  Development of a Novel Class of Tubulin Inhibitors with Promising Anticancer Activities
     Jingle Xi, Xuejun Zhu, Yongmei Feng, Na Huang, Guifen Luo, Yongjun Mao, Xiaofeng Han, Wang Tian, Guirong Wang, Xiaohing Han, Rongchong Luo, Ziwei Huang, and Jing An

865  TROY (TNFRSF19) Promotes Glioblastoma Survival Signaling and Therapeutic Resistance
     Joseph C. Loftus, Harshil Dhruv, Serdar Tuncali, Jean Kloss, Zhongbo Yang, Cassie A. Schumacher, Brian Cao, Bart O. Williams, Jennifer M. Eschbacher, Julianna T.D. Ross, and Nhan L. Tran

CHROMATIN, GENE, AND RNA REGULATION

875  Transcription Factor Interactions Mediate EGF-Dependent COX-2 Expression
     Kaiming Xu and Hui-Kuo G. Shu

887  Dysregulating IRES-Dependent Translation Contributes to Overexpression of Oncogenic Aurora A Kinase
     Tara Dobson, Juan Chen, and Les A. Krushel

CELL CYCLE AND SENESCENCE

834  FoxM1 is Overexpressed in Helicobacter pylori–Induced Gastric Carcinogenesis and Is Negatively Regulated by miR-370
     Yimin Feng, Lixiang Wang, Jiping Zeng, Li Shen, Xiuning Liang, Han Yu, Shili Liu, Zhifang Liu, Yundong Sun, Wenjuan Li, Chunyan Chen, and Jihui Jia

885  Suppression of Ser/Thr Phosphatase 4 (PP4C/PPP4C) Mimics a Novel Post-Mitotic Action of Fostriecin, Producing Mitotic Slippage Followed by Tetraploid Cell Death
     Benjamin Theobald, Kathy Bonness, Alla Musiienko, Joel F. Andrews, Gudrun Urban, Xizhong Huang, Nicholas M. Dean, and Richard E. Honkanen

DNA DAMAGE AND REPAIR

901  Mitoxantrone Targets Human Ubiquitin-Specific Peptidase 11 (USP11) and Is a Potent Inhibitor of Pancreatic Cancer Survival
GENOMICS

912 miR-150 Blocks MLL-AF9–Associated Leukemia through Oncogene Repression
Marina Bousquet, Guoqing Zhuang, Cong Meng, Wei Ying, Patali S. Cheruku, Andrew T. Shie, Stephanie Wang, Guantao Ge, Piu Wong, Gang Wang, Stephen Safe, and Beiyan Zhou

ONCOGENES AND TUMOR SUPPRESSORS

923 miR-155–Deficient Bone Marrow Promotes Tumor Metastasis
Fang Yu, Xuemei Jia, Fen Du, Junfeng Wang, Yuzhen Wang, Walden Ai, and Daping Fan

937 RASEF is a Novel Diagnostic Biomarker and a Therapeutic Target for Lung Cancer
Hideto Oshita, Ryohei Nishino, Atsushi Takano, Takashi Fujitomo, Masato Aragaki, Tatsuya Kato, Hirohiko Akiyama, Eiju Tsuichiya, Nobuoki Kohno, Yusuke Nakamura, and Yataro Daigo

SIGNAL TRANSDUCTION

952 Fer Protein-Tyrosine Kinase Promotes Lung Adenocarcinoma Cell Invasion and Tumor Metastasis
Joseph Ahn, Peter Truesdell, Jalna Meens, Carli Kadish, Xiaolong Yang, Alexander H. Boag, and Andrew W.B. Craig

CORRECTION

964 Correction: Targeting Tumor Cell Invasion and Dissemination In Vivo by an Aptamer that Inhibits Urokinase-Type Plasminogen Activator through a Novel Multifunctional Mechanism

ABOUT THE COVER

The inaugural Rapid Impact article, by Kobayashi and colleagues (beginning on page 828), reveals a crosstalk between two dominant cell cycle tumor suppressor proteins such that p14ARF regulates the stability of p16INK4A through a degradation mechanism involving the REGγ subunit of the 20S proteasome. Accompanying the article online, and presented on the cover, the AACR and Molecular Cancer Research are proud to introduce a new article feature called Visual Overview in which the novel findings of the article are graphically depicted.

AC icon indicates Author Choice

For more information please visit www.aacrjournals.org