Highlights of This Issue 441

CELL CYCLE AND SENESCENCE

443 The Role of Versican in Modulating Breast Cancer Cell Self-renewal
William Weidong Du, Ling Fang, Xiangling Yang, Wang Sheng, Bing L. Yang, Arun Seth, Yaou Zhang, Burton B. Yang, and Albert J. Yee

CELL DEATH AND SURVIVAL

456 Procollagen Lysyl Hydroxylase 2 Is Essential for Hypoxia-Induced Breast Cancer Metastasis
Daniele M. Gilkes, Saumendra Bajpai, Carmen C. Wong, Pallavi Chaturvedi, Maimon E. Hubbi, Denis Wirtz, and Gregg L. Semenza

467 Equivalent Benefit of Rapamycin and a Potent mTOR ATP-Competitive Inhibitor, MLN0128 (INK128), in a Mouse Model of Tuberous Sclerosis
Yanan Guo and David J. Kwiatkowski

474 Suppression of AKT Phosphorylation Restores Rapamycin-Based Synthetic Lethality in SMAD4-Defective Pancreatic Cancer Cells
Onica Le Gendre, Ayisha Sookdeo, Stephie-Anne Duliepre, Matthew Utter, Maria Frias, and David A. Foster

CHROMATIN, GENE, AND RNA REGULATION

482 Role of WNT7B-induced Noncanonical Pathway in Advanced Prostate Cancer
Dali Zheng, Keith F. Decker, Tianhua Zhou, Jianquan Chen, Zongtai Qi, Kathryn Jacobs, Katherine N. Weilbaecher, Eva Corey, Fanxin Long, and Li Jia

494 Activation of the NF-κB Pathway by the STAT3 Inhibitor JSI-124 in Human Glioblastoma Cells
Braden C. McFarland, G. Kenneth Gray, Susan E. Nozell, Suk W. Hong, and Etty N. Benveniste

GENOMICS

506 Molecular Hierarchy of Heparin-Binding EGF-like Growth Factor–Regulated Angiogenesis in Triple-Negative Breast Cancer
Fusanori Yotsumoto, Eriko Tokunaga, Eiji Oki, Yoshihiko Maehara, Hiromi Yamada, Kyoko Nakajima, Sung Ouk Nam, Kohei Miyata, Midori Koyanagi, Keiko Doi, Senji Shirasawa, Masahide Kuroki, and Shingo Miyamoto

ONCOGENES AND TUMOR SUPPRESSORS

518 Glutathione S-Transferase Mu2 Suppresses Cancer Cell Metastasis in Non–Small Cell Lung Cancer
Sheau-Chung Tang, Chih-Hsien Wu, Chien-Hung Lai, Wen-Wei Sung, Wan-Jung Yang, Lee-Chun Tang, Chung-Ping Hsu, and Jiunn-Liang Ko

SIGNAL TRANSDUCTION

530 The Invasion Inhibitor Sarasinoside A1 Reverses Mesenchymal Tumor Transformation in an E-Cadherin–Independent Manner
Pamela Austin, Spencer A. Freeman, Christopher A. Gray, Michael R. Gold, A. Wayne Vogl, Raymond J. Andersen, Michel Roberge, and Calvin D. Roskelley

541 LCK Is an Important Mediator of B-Cell Receptor Signaling in Chronic Lymphocytic Leukemia Cells
Fatima Talab, John C. Allen, Victoria Thompson, Ke Lin, and Joseph R. Slupsky
ABOUT THE COVER

In hypoxic regions of breast cancers, HIF-1 activates transcription of the PLOD2 gene, which encodes a procollagen lysyl hydroxylase that modifies type I collagen prior to its secretion into the extracellular matrix. Human breast cancer cells were implanted into the mammary fat pad of immunodeficient mice and the resulting tumors were sectioned, stained with picrosirius red, and viewed under polarized light, which revealed increased fibrillar collagen in regions of intratumoral hypoxia. The collagen fibers promote breast cancer invasion and metastasis. For details, see the article by Gilkes and colleagues on page 456.