REVIEW

The Molecular Balancing Act of p16INK4a in Cancer and Aging
Kyle M. LaPak and Christin E. Burd

Rapid IMPACT

Prostate Cancer Genetic-susceptibility Locus on Chromosome 20q13 is Amplified and Coupled to Androgen Receptor-regulation in Metastatic Tumors
David P. Labbé, Dawid G. Nowak, Genevieve Deblois, Laurent Lessard, Vincent Giguère, Lloyd C. Trotman, and Michel L. Tremblay

CELL CYCLE AND SENESCENCE

miRNA-302b Suppresses Human Hepatocellular Carcinoma by Targeting AKT2
Lumin Wang, Jiayi Yao, Xiaogang Zhang, Bo Guo, Xiaofeng Le, Mark Cubberly, Zongfang Li, Kejun Nan, Tusheng Song, and Chen Huang

p53/mdm2 Feedback Loop Sustains miR-221 Expression and Dictates the Response to Anticancer Treatments in Hepatocellular Carcinoma
Francesca Fornari, Maddalena Milazzo, Marzia Galassi, Elisa Callegari, Angelo Veronese, Hisamitsu Miyata, Silvia Sabbioni, Vilma Mantovani, Elena Marasco, Pasquale Chieco, Massimo Negri, Luigi Bolondi, and Laura Gramantieri

CELL DEATH AND SURVIVAL

Inhibition of PP2A Activity Confers a TRAIL-Sensitive Phenotype during Malignant Transformation
Hongmei Yang, Xianyu Chen, Xuegang Wang, Yansheng Li, Shaoyong Chen, Xiaohui Qian, Rong Wang, Li Chen, Weimei Han, Anming Ruan, Quansheng Du, Aria F. Olumi, and Xiaoping Zhang

CHROMATIN, GENE, AND RNA REGULATION

The Metalloprotease ADAMTS8 Displays Antitumor Properties through Antagonizing EGFR–MEK–ERK Signaling and Is Silenced in Carcinomas by CpG Methylation
Gigi C.G. Choi, Jisheng Li, Yayun Wang, Lili Li, Lan Zhong, Brigette Ma, Xianwei Su, Jianming Ying, Tingxiu Xiang, Sun Young Rha, Jun Yu, Joseph J.Y. Sung, Sai Wah Tsao, Anthony T.C. Chan, and Qian Tao

DNA DAMAGE AND REPAIR

Angiopoietin-like Protein 2 Accelerates Carcinogenesis by Activating Chronic Inflammation and Oxidative Stress
Jun Aoi, Motoyoshi Endo, Tsuyoshi Kadomatsu, Keishi Miyata, Aki Ogata, Haruki Horiguchi, Haruki Odagiri, Tetsuro Masuda, Satoshi Fukushima, Masatoshi Jinnin, Satoshi Hirakawa, Tomohiro Sawata, Takaaki Akaie, Hironobu Ihn, and Yuichi Oike

GENOMICS

 Comparative microRNA Profiling of Prostate Carcinomas with Increasing Tumor Stage by Deep Sequencing
Martin Hart, Elke Nolte, Sven Wach, Jaroslav Szczyrba, Helge Taubert, Tilman T. Rau, Arndt Hartmann, Friedrich A. Grasser, and Bernd Wullich

ONCOGENES AND TUMOR SUPPRESSORS

NEDD9 Regulates 3D Migratory Activity Independent of the Rac1 Morphology Switch in Glioma and Neuroblastoma
Jessie Zhong, Cuc T. Bach, Michael S.Y. Shum, and Geraldine M. O’Neill
C-C Chemokine Receptor 5 on Pulmonary Mesenchymal Cells Promotes Experimental Metastasis via the Induction of Erythroid Differentiation Regulator 1
Robert L. Mango, Qing Ping Wu, Michelle West, Everett C. McCook, Jonathan S. Serody, and Hendrik W. van Deventer

BMP Signaling Induces Astrocytic Differentiation of Clinically Derived Oligodendroglioma Propagating Cells
Maya Srikanth, Juno Kim, Sunit Das, and John A. Kessler

ABOUT THE COVER
The cover shows a Circos plot of genome-wide coamplification events of androgen receptor (AR) locus and the prostate cancer susceptibility region HPC20 at chromosome 20q13. Only 8 other chromosomes show similarly significant coamplification with the AR in metastasis, and the AR regulates several genes within the 20q13 region. Some of these have already been linked to oncogenic functions, thus pointing to a functional role of the 20q13–AR coamplification in prostate metastasis and therapy resistance. See the article by Labbé and colleagues (beginning on page 184) for more information.