Highlights of This Issue 965

REVIEW

967 The Role of Inflammatory Pathways in Cancer-Associated Cachexia and Radiation Resistance
Aaron Laine, Puneeth Iyengar, and Tej K. Pandita

CELL CYCLE AND SENESCENCE

973 Energy Management by Enhanced Glycolysis in G1-phase in Human Colon Cancer Cells In Vitro and In Vivo
Yan Bao, Kuniaki Mukai, Takako Hishiki, Akiko Kubo, Mitsuyo Ohmura, Yuki Sugiura, Tomohiro Matsuura, Yoshiko Nagahata, Noriyoh Hayakawa, Takehiro Yamamoto, Ryo Fukuda, Hideyuki Saya, Makoto Suematsu, and Jyoji Andrew Minamishima

986 PTP1B Contributes to Calreticulin-Induced Metastatic Phenotypes in Esophageal Squamous Cell Carcinoma
Xiao-Min Wang, Li Shang, Yu Zhang, Jia-Jie Hao, Feng Shi, Wei Luo, Tong-Tong Zhang, Bo-Shi Wang, Yang Yang, Zhi-Hua Liu, Qi-Min Zhan, and Ming-Rong Wang

CELL DEATH AND SURVIVAL

995 B56γ Tumor-Associated Mutations Provide New Mechanisms for B56γ-PP2A Tumor Suppressor Activity
Yumiko Nobumori, Geoffrey P. Shouse, Yong Wu, Kyu Joon Lee, Binghu Shen, and Xuan Liu

1004 Dynamic Chemotherapy-Induced Upregulation of CXCR4 Expression: A Mechanism of Therapeutic Resistance in Pediatric AML
Edward Allan R. Sison, Emily McIntyre, Daniel Magoon, and Patrick Brown

CHROMATIN, GENE, AND RNA REGULATION

1017 Unraveling the Role of FOXQ1 in Colorectal Cancer Metastasis
Mohammed Abba, Nitin Patil, Kabeer Rasheed, Laura D. Nelson, Giridhar Mudduluru, Jorg Hendrik Leupold, and Heike Allgayer

DNA DAMAGE AND REPAIR

1040 Epithelial-Specific Deletion of 11b-HSD2 Hinders Apcmin/+ Mouse Tumorigenesis
Li Jiang, Shilin Yang, Huanyong Yin, Xiaofeng Fan, Sunan Wang, Bing Yao, Ambra Pozzi, Xiaoping Chen, Raymond C. Harris, and Ming-Zhi Zhang

GENOMICS

1051 Tumor Suppressor Functions of miR-133a in Colorectal Cancer
Yujuan Dong, Junhong Zhao, Chung-Wah Wu, Lijing Zhang, Xiaodong Liu, Wei Kang, Wing-Wah Leung, Ning Zhang, Francis K.L. Chan, Joseph J.Y. Sung, Simon S.M. Ng, and Jun Yu

A Novel Germline Mutation in RAP1 Predisposes to Familial Clear-Cell Renal Cell Carcinoma
Megan N. Farley, Laura S. Schmidt, Jessica L. Mester, Samuel Peña-Llopis, Andrea Pavia-Jimenez, Alana Christie, Cathy D. Vocke, Christopher J. Ricketts, James Peterson, Lindsay Middleton, Lisa Kinch, Nick Grishin, Maria J. Merino, Adam R. Metwalli, Chao Xing, Xian-Jun Xie, Patricia L.M. Dahia, Charis Eng, W. Marston Linehan, and James Brugarolas

ONCOGENES AND TUMOR SUPPRESSORS

1072 HDAC6 and SIRT2 Regulate the Acetylation State and Oncogenic Activity of Mutant K-RAS
Moon Hee Yang, Gaelle Laurent, Alexandra S. Bause, Robert Spang, Natalie German, Marcia C. Haigis, and Kevin M. Haigis

Snail Cooperates with KrasG12D to Promote Pancreatic Fibrosis
Mario A. Shields, Kazumi Ehime, Vaibhav Sahai, Krishan Kumar, Kulsumjeewan Siddiqui, Rosa F. Hwang, Paul J. Grippo, and Hidayatullah G. Munshi
SIGNAL TRANSDUCTION

Residual Prostate Cancer Cells after Docetaxel Therapy Increase the Tumorigenic Potential via Constitutive Signaling of CXCR4, ERK1/2 and c-Myc
Koji Hatano, Souhei Yamaguchi, Keisuke Nimura, Kouki Murakami, Akira Nagahara, Kazutoshi Fujita, Motohide Uemura, Yasutomo Nakai, Mutsumi Tsuchiya, Masashi Nakayama, Norio Nonomura, and Yasufumi Kaneda

AURKA Governs Self-Renewal Capacity in Glioma-Initiating Cells via Stabilization/Activation of β-catenin/Wnt Signaling
Zhibo Xia, Ping Wei, Heng Zhang, Zhiming Ding, Lixuan Yang, Zhengsong Huang, and Nu Zhang

ABOUT THE COVER

The image shows axial abdominal computed tomography (CT) scans from the proband of a family in which multiple individuals were affected by kidney cancer. This family was found to have a germline mutation in the gene encoding the nuclear deubiquitinase BAP1 (BRCA1-associated protein-1). Following resection of the right kidney for cancer, the patient developed multifocal tumors in the left kidney, as shown in the four panels. At the age of 46, he underwent the first of three left partial nephrectomies for the surgical removal of two high-grade clear cell renal carcinomas measuring 3 cm and 1.5 cm, respectively, and a 2-cm atypical cyst with clear cell lining. For details, see the article by Farley and colleagues on page 1061.