# Contents

## Highlights of This Issue 1479

### REVIEWS

1481  **Collagen XV: Exploring Its Structure and Role within the Tumor Microenvironment**  
Anthony George Clementz and Ann Harris

1487  **Advances in Understanding the Expression and Function of Dipeptidyl Peptidase 8 and 9**  
Hui Zhang, Yiqian Chen, Fiona M. Keane, and Mark D. Gorrell

### DNA DAMAGE AND REPAIR

1564  **Systematic Screen Identifies miRNAs That Target RAD51 and RAD51D to Enhance Chemosensitivity**  
Jen-Wei Huang, Yemin Wang, Kiranjit K. Dhillon, Philamer Calses, Emily Villegas, Patrick S. Mitchell, Muneshew Tewari, Christopher J. Kemp, and Toshiyasu Taniguchi

### CELL CYCLE AND SENESCENCE

1497  **SIRT1 Is Downregulated in Gastric Cancer and Leads to G1-phase Arrest via NF-κB/Cyclin D1 Signaling**  
Qing Yang, Bo Wang, Wei Gao, Shanying Huang, Zhifang Liu, Wenzuan Li, and Jihui Jia

1508  **A Novel Regulatory Mechanism of Pim-3 Kinase Stability and Its Involvement in Pancreatic Cancer Progression**  
Fei Zhang, Bin Liu, Zhen Wang, Xian-Jun Yu, Quan-Xing Ni, Wen-Tao Yang, Naofumi Mukaida, and Ying-Yi Li

### CELL DEATH AND SURVIVAL

1521  **Resveratrol and P-glycoprotein Inhibitors Enhance the Anti-Skin Cancer Effects of Ursolic Acid**  
Jacob J. Junco, Anna Mancha, Gunjan Malik, Sung-Jen Wei, Dae Joon Kim, Huiyun Liang, and Thomas J. Slaga

1530  **Hematopoietic Expression of Oncogenic Braf Promotes Aberrant Growth of Monocyte-Lineage Cells Resistant to PLX4720**  
Tamihiro Kamata, David Dankort, Jing Kang, Susan Giblett, Catrin A. Pritchard, Martin McMahon, and Andrew D. Leavitt

### CHROMATIN, GENE, AND RNA REGULATION

1542  **S100A14: Novel Modulator of Terminal Differentiation in Esophageal Cancer**  
Hongyan Chen, Jianlin Ma, Benjamin Sunkel, Aiping Luo, Fang Ding, Yi Li, Huan He, Shuguang Zhang, Chengshan Xu, Qinge Jin, Qianben Wang, and Zhihua Liu

1554  **AKR1B10, a Transcriptional Target of p53, Is Downregulated in Colorectal Cancers Associated with Poor Prognosis**  
Tomoko Ohashi, Masahiro Idogawa, Yasushi Sasaki, Hiromu Suzuki, and Takashi Tokino

### GENOMICS

1574  **EGFR Inhibition Induces Proinflammatory Cytokines via NOX4 in HNSCC**  
Elise V.M. Fletcher, Laurie Love-Homan, Arya Sobhakumari, Charlotte R. Feddersen, Adam T. Koch, Apollina Goel, and Andrea L. Simons

1585  **A Proangiogenic Signature Is Revealed in FGF-Mediated Bevacizumab-Resistant Head and Neck Squamous Cell Carcinoma**  
Bekha Gyanchandani, Marcus V. Ortega Alves, Jeffrey N. Myers, and Seungwon Kim

### ONCOGENES AND TUMOR SUPPRESSORS

1597  **Activation of the Wnt Pathway through AR79, a GSK3β Inhibitor, Promotes Prostate Cancer Growth in Soft Tissue and Bone**  
Inhibition of NF-κB Signaling Ablates the Invasive Phenotype of Glioblastoma

PKCβ Maintains a Tumor-initiating Cell Phenotype That Is Required for Ovarian Tumorigenesis
Yin Wang, Kristen S. Hill, and Alan P. Fields

ABOUT THE COVER
An activating BRAF mutation has been detected in a number of human monocyte/macrophage (histioyte)-lineage hematopoietic neoplasms. Conditional expression of the activating BRAFV600E mutation in the mouse hematopoietic system induces aberrant growth of monocyte-lineage cells, including solid organ infiltration and a monocytosis in the circulating blood (cover image) reminiscent of human hematopoietic disorders. The mouse model affords a useful preclinical platform for understanding the biology of and developing pathway-targeted therapeutics against human monocyte-lineage hematopoietic neoplasms driven by BRAFV600E expression. For more information see the article by Kamata and colleagues on page 1530.