### Highlights of This Issue 1123

#### PERSPECTIVE

- **Unintentional Weakness of Cancers: The MEK–ERK Pathway as a Double-Edged Sword**
  - Kenichi Suda and Tetsuya Mitsudomi

#### REVIEWS

- **The Pathobiology of Collagens in Glioma**
  - Leo S. Payne and Paul H. Huang

- **Cancer Gene Discovery: Exploiting Insertional Mutagenesis**
  - Marco Ranzani, Stefano Annunziato, David J. Adams, and Eugenio Montini

### ONCOGENES AND TUMOR SUPPRESORS

- **Interleukin-6 and Oncostatin-M Synergize with the PI3K/AKT Pathway to Promote Aggressive Prostate Malignancy in Mouse and Human Tissues**
  - Daniel A. Smith, Atsushi Kiba, Yang Zong, and Owen N. Witte

- **Mutual Exclusivity Analysis of Genetic and Epigenetic Drivers in Melanoma Identifies a Link between p14ARF and RARb Signaling**
  - Christina Dahl, Claus Christensen, Göran Jonsson, Anders Lorentzen, Mette Louise Skjødt, Åke Borg, Graham Pawelec, and Per Guldberg

- **TDP1 and PARP1 Deficiency Are Cytotoxic to Rhabdomyosarcoma Cells**
  - Hok Khim Famm, Cheryl Walton, Sheetal A. Mitra, Mirraj Chowdhury, Nichola Osborne, Kunho Choi, Guobin Sun, Patrick C.W. Wong, Maureen J. O’ Sullivan, Gulisa Turashvili, Samuel Aparicio, Timothy J. Triche, Mason Bond, Catherine J. Pallen, and Cornelius F. Boerkoel

### CHROMATIN, GENE, AND RNA REGULATION

- **Angiogenin Mediates Androgen-Stimulated Prostate Cancer Growth and Enables Castration Resistance**
  - Shuping Li, Miaofen G. Hu, Yeqing Sun, Norie Yoshioka, Soichiro Ibaragi, Jinghao Sheng, Guangjie Sun, Koji Kishimoto, and Guo-Fu Hu

- **Menin Directly Represses Gli1 Expression Independent of Canonical Hedgehog Signaling**
  - Buddha Gurung, Zijie Feng, and Xianxin Hua

### CELL CYCLE AND SENESCENCE

- **53BP1 Is Limiting for NHEJ Repair in ATM-deficient Model Systems That Are Subjected to Oncogenic Stress or Radiation**

### DNA DAMAGE AND REPAIR

- **Downregulation of HOPX Controls Metastatic Behavior in Sarcoma Cells and Identifies Genes Associated with Metastasis**
  - Denisa Kovárová, Jiří Plachý, Jan Kosla, Katerina Trejbalová, Vladimír Čermák, and Jiří Hejnar

### GENOMICS

- **Breast Cancer Metastasis Suppressor-1 Promoter Methylation in Primary Breast Tumors and Corresponding Circulating Tumor Cells**
  - Maria Chimonidou, Galatea Kallergi, Vassilis Georgoulis, Danny R. Welch, and Evi S. Lianidou
1258  The Small Cell Lung Cancer-Specific Isoform of RE1-Silencing Transcription Factor (REST) Is Regulated By Neural-Specific Ser/Arg Repeat-Related Protein of 100 kDa (nSR100)

Masahito Shimojo, Yoshie Shudo, Masatoshi Ikeda, Tomoyo Kobashi, and Seiji Ito

1279  Minocycline Targets the NF-κB Nexus through Suppression of TGF-β1-TAK1-IκB Signaling in Ovarian Cancer

Parvin Ataie-Kachoie, Samina Badar, David L. Morris, and Mohammad H. Pourgholami

SIGNAL TRANSDUCTION

1269  Dual Inhibition of PI3K and mTOR Mitigates Compensatory AKT Activation and Improves Tamoxifen Response in Breast Cancer

Xiaosong Chen, Meizhong Zhao, Mingang Hao, Xueqing Sun, Jinglong Wang, Yan Mao, Lidong Zu, Junjun Liu, Yandong Shen

CORRECTION

1292  Correction: CTCF and BORIS Regulate Rb2/p130 Gene Transcription: A Novel Mechanism and a New Paradigm for Understanding the Biology of Lung Cancer

Jianhua Wang, and Kunwei Shen

ABOUT THE COVER

Invasive growth into the surrounding mesenchyme is a hallmark of tumor malignancy and is a key step in the metastatic process. The cover art identifies PTEN-knockout prostate epithelial cells (e-cadherin, green) invading through the basement membrane (collagen IV, red) in response to stromal expression of the cytokine interleukin-6. This suggests that signaling molecules commonly associated with the pro-inflammatory tumor microenvironment can synergize with existing oncogenes to promote tumor progression. For more information please see the article by Smith and colleagues on page 1159.