### Highlights of This Issue 965

#### REVIEW

**Tailoring Peptidomimetics for Targeting Protein–Protein Interactions**

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#### CELL CYCLE AND SENESCENCE

**Activating BRAF and PIK3CA Mutations Cooperate to Promote Anaplastic Thyroid Carcinogenesis**
Roch-Philippe Charles, Jillian Silva, Gioia Iezza, Wayne A. Phillips, and Martin McMahon

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#### CELL DEATH AND SURVIVAL

**PI3K and Bcl-2 Inhibition Primes Glioblastoma Cells to Apoptosis through Downregulation of Mcl-1 and Phospho-BAD**
Fresia Pareja, David Macleod, Chang Shu, John F. Crary, Peter D. Canoll, Alonzo H. Ross, and Markus D. Siegelin

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#### CHROMATIN, GENE, AND RNA REGULATION

**Differential Expression of Stress and Immune Response Pathway Transcripts and miRNAs in Normal Human Endothelial Cells Subjected to Fractionated or Single-Dose Radiation**

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#### DNA DAMAGE AND REPAIR

**Hypoxic Stress Facilitates Acute Activation and Chronic Downregulation of Fanconi Anemia Proteins**
Susan E. Scanlon and Peter M. Glazer

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#### GENOMICS

**Transcriptomes and shRNA Suppressors in a TP53 Allele–Specific Model of Early-Onset Colon Cancer in African Americans**
Charles C. Weige, Marc R. Birtwistle, Himel Mallick, Nengjin Yi, Zuzana Berrong, Emily Cloessner, Keely Duff, Josephine Tidwell, Megan Clendenning, Brent Wilkerson, Christopher Farrell, Fred Bunz, Hao Ji, Michael Shпитman, Kim E. Creek, Carolyn E. Banister, and Phillip J. Buckhaults

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#### ONCOGENES AND TUMOR SUPPRESSORS

**FGFR3 Translocations in Bladder Cancer: Differential Sensitivity to HSP90 Inhibition Based on Drug Metabolism**
Jaime Acquaviva, Suqin He, Chaohua Zhang, John-Paul Jimenez, Masazumi Nagai, Jim Sang, Manuel Sequeira, Donald L. Smith, Luisa Shin Ogawa, Takayo Inoue, Noriaki Tatsuta, Margaret A. Knowles, Richard C. Bates, and David A. Proia

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#### SIGNAL TRANSDUCTION

**Evaluating TBK1 as a Therapeutic Target in Cancers with Activated IRF3**
ABOUT THE COVER

Immunofluorescence picture (200×) of a murine papillary thyroid carcinoma stained for galectin-3 (green) and DAPI (blue). This mouse model, developed in the McMahon Lab at the University of California, San Francisco by R.-P. Charles using the cre-activable gene Braf<sup>CA</sup> mutant mouse coupled with a thyroid-specific cre-recombinase (Thyro-cre<sup>ERT2</sup>), mimics closely the human pathology (e.g., galectin-3 expression). This preclinical model is invaluable for further studies using pathway-targeted drug treatments but also for uncovering the genetics behind tumor progression to anaplastic thyroid carcinoma by combining additional genomic alterations like Pkd1<sup>H1074R</sup> or Pten deletion. See the article by Charles and colleagues (beginning on page 979) for more information.