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- 859 | **State of the Science: An Update on Renal Cell Carcinoma**  
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### ANGIOGENESIS, METASTASIS, AND THE CELLULAR MICROENVIRONMENT

- 881 | **FES Kinase Promotes Mast Cell Recruitment to Mammary Tumors via the Stem Cell Factor/KIT Receptor Signaling Axis**  
Ester Kwok, Stephanie Everingham, Shengnan Zhang, Peter A. Greer, John S. Allingham, and Andrew W.B. Craig
- 892 |  **$\alpha$ -Catulin Marks the Invasion Front of Squamous Cell Carcinoma and Is Important for Tumor Cell Metastasis**  
Christine Cao, Yibu Chen, Rizwan Masood, Uttam K. Sinha, and Agnieszka Kobiela

### CANCER GENES AND GENOMICS

- 904 | **Yes-Associated Protein 1 Is Activated and Functions as an Oncogene in Meningiomas**  
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- 914 | **Analysis of Gene Expression Regulated by the *ETV5* Transcription Factor in OV90 Ovarian Cancer Cells Identifies *FOXMI* Overexpression in Ovarian Cancer**  
Marta Llauradó, Blanca Majem, Josep Castellví, Sílvia Cabrera, Antonio Gil-Moreno, Jaume Reventós, and Anna Ruiz

### CELL CYCLE, CELL DEATH, AND SENESENCE

- 925 | **A Novel 19q13 Nucleolar Zinc Finger Protein Suppresses Tumor Cell Growth through Inhibiting Ribosome Biogenesis and Inducing Apoptosis but Is Frequently Silenced in Multiple Carcinomas**  
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### DNA DAMAGE AND CELLULAR STRESS RESPONSES

- 937 | **The Proteasome Activator PA200 Regulates Tumor Cell Responsiveness to Glutamine and Resistance to Ionizing Radiation**  
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- 945 | **Akt Promotes Post-Irradiation Survival of Human Tumor Cells through Initiation, Progression, and Termination of DNA-PKcs-Dependent DNA Double-Strand Break Repair**  
Mahmoud Toulany, Kyung-Jong Lee, Kazi R. Fattah, Yu-Fen Lin, Brigit Fehrenbacher, Martin Schaller, Benjamin P. Chen, David J. Chen, and H. Peter Rodemann

### SIGNALING AND REGULATION

- 958 | **Cdc42 and the Guanine Nucleotide Exchange Factors Ect2 and Trio Mediate Fn14-Induced Migration and Invasion of Glioblastoma Cells**  
Shannon P. Fortin, Matthew J. Ennis, Cassie A. Schumacher, Cassandra R. Zylstra-Diegel, Bart O. Williams, Julianna T.D. Ross, Jeffrey A. Winkles, Joseph C. Loftus, Marc H. Symons, and Nhan L. Tran

**Inhibition of Akt Potentiates 2-DG-Induced Apoptosis via Downregulation of UPR in Acute Lymphoblastic Leukemia**

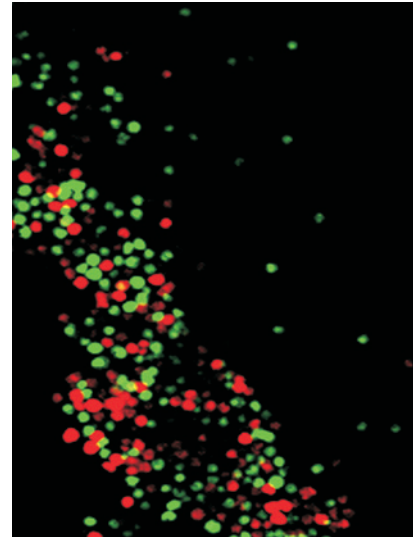
Joanna DeSalvo, Jeffim N. Kuznetsov, Jianfeng Du, Gilles M. Leclerc, Guy J. Leclerc, Theodore J. Lampidis, and Julio C. Barredo

**Human ESC Self-renewal Promoting microRNAs Induce Epithelial-Mesenchymal Transition in Hepatocytes by Controlling the PTEN and TGF $\beta$  Tumor Suppressor Signaling Pathways**

Christine J. Jung, Sushma Iyengar, Kimberly R. Blahnik, Joy X. Jiang, Candice Tahimic, Natalie J. Torok, Ralph W. de vere White, Peggy J. Farnham, and Mark Zern

**ABOUT THE COVER**

KIT receptor signaling in mast cells is linked to the recruitment of these immune cells to a variety of solid tumors that express Stem cell factor (SCF). Within tumors, mast cell-derived mediators can enhance growth of the tumor vasculature and promote metastasis. Thus, inhibitors of KIT receptor, or downstream signaling pathways linked to mast cell chemotaxis, may be useful to limit tumor progression. Using a time lapse chemotaxis assay, FES kinase-deficient mast cells (red) were found to migrate less than control mast cells (green) under an agarose drop containing SCF. Interestingly, in FES-deficient mice, mammary tumors expressing SCF also failed to attract comparable mast cells to wild-type control mice, and tumor progression was suppressed. For details, see article by Kwok and colleagues on page 881.



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