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### REVIEW

**State of the Science: An Update on Renal Cell Carcinoma**

**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**
Yinggian Cheng, Pei Liang, Hua Geng, Zhaohui Wang, Lili Li, Suk Hang Cheng, Jianming Ying, Xianwei Su, Ka Man Ng, Margaret H.L. Ng, Tony S.K. Mok, Anthony T.C. Chan, and Qian Tao (925)

### ANGIOGENESIS, METASTASIS, AND THE CELLULAR MICROENVIRONMENT

**FES Kinase Promotes Mast Cell Recruitment to Mammary Tumors via the Stem Cell Factor/KIT Receptor Signaling Axis**
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**α-Catulin Marks the Invasion Front of Squamous Cell Carcinoma and Is Important for Tumor Cell Metastasis**
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### CELL CYCLE, CELL DEATH, AND SENESCENCE

**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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Human ESC Self-renewal Promoting microRNAs Induce Epithelial–Mesenchymal Transition in Hepatocytes by Controlling the PTEN and TGFβ 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.