Highlights of This Issue 1241

REVIEWS

1243  N-myc and Noncoding RNAs in Neuroblastoma
Jochen Buechner and Christer Einvik

1254  Revisiting the Complexity of the Ovarian Cancer Microenvironment—Clinical Implications for Treatment Strategies
Natasha Musrap and Eleftherios P. Diamandis

1265  GAB2—a Scaffolding Protein in Cancer
Sarah J. Adams, Iraz T. Aydin, and Julide T. Celebi

ANGIOGENESIS, METASTASIS, AND THE CELLULAR MICROENVIRONMENT

1271  Role of Plasminogen Activator Inhibitor-1 in Urokinase’s Paradoxical In Vivo Tumor Suppressing or Promoting Effects
Yunqi Jing, Krisztina Kovacs, Vittal Kurisetty, Zhijie Jiang, Nick Tsinoseras, and Jaime R. Merchán

1282  Copper Modulates Zinc Metalloproteinase-Dependent Ectodomain Shedding of Key Signaling and Adhesion Proteins and Promotes the Invasion of Prostate Cancer Epithelial Cells
Catherine A. Parr-Sturgess, Claire L. Tinker, Claire A. Hart, Michael D. Brown, Noel W. Clarke, and Edward T. Parkin

1294  Macrophages Promote Fibroblast Growth Factor Receptor-Driven Tumor Cell Migration and Invasion in a Cxcr2-Dependent Manner
Laura R. Bohrer and Kathryn L. Schwertfeger

1306  Regulation of Inflammatory Breast Cancer Cell Invasion through Akt1/PKBα Phosphorylation of RhoC GTPase
Heather L. Lehman, Steven J. Van Laere, Cynthia M. van Golen, Peter B. Vermeulen, Luc Y. Dirix, and Kenneth L. van Golen

CANCER GENES AND GENOMICS

1325  SINE Retrotransposons Cause Epigenetic Reprogramming of Adjacent Gene Promoters
Marcos R.H. Estéció, Juan Gallegos, Mhair Dekmezian, Yue Lu, Shoudan Liang, and Jean-Pierre J. Issa

1332  SINE Retrotransposons Cause Epigenetic Reprogramming of Adjacent Gene Promoters
Marcos R.H. Estéció, Juan Gallegos, Mhair Dekmezian, Yue Lu, Shoudan Liang, and Jean-Pierre J. Issa

CELL CYCLE, CELL DEATH, AND SENESCENCE

1343  Expression of G Protein-Coupled Receptor 19 in Human Lung Cancer Cells Is Triggered by Entry into S-Phase and Supports G2–M Cell-Cycle Progression
Stefan Kastner, Tilman Voss, Simon Keuerleber, Christina Göckel, Michael Freissmuth, and Wolfgang Sommergruber

DNA DAMAGE AND CELLULAR STRESS RESPONSES

1359  Threonine 2609 Phosphorylation of the DNA-Dependent Protein Kinase Is a Critical Prerequisite for Epidermal Growth Factor Receptor–Mediated Radiation Resistance
SIGNALING AND REGULATION

1369 Ah Receptor Antagonism Represses Head and Neck Tumor Cell Aggressive Phenotype
Brett C. DiNatale, Kayla Smith, Kaarthik John, Gowdahalli Krishnegowda, Shantu G. Amin, and Gary H. Perdew

1380 The Essential Role of Gi2 in Prostate Cancer Cell Migration
Miao Zhong, Shineka Clarke, BaoHan T. Vo, and Shafiq A. Khan

Biological Responses to TGF-β in the Mammary Epithelium Show a Complex Dependency on Smad3 Gene Dosage with Important Implications for Tumor Progression
Ethan A. Kohn, Yu-an Yang, Zhijun Du, Yoshiko Nagano, Catherine M.H. Van Schyndle, Michelle A. Herrmann, Madeleine Heldman, Jin-Qiu Chen, Christina H. Stuelten, Kathleen C. Flanders, and Lalage M. Wakefield

ABOUT THE COVER

Activation of fibroblast growth factor receptor 1 (FGFR1) in mammary epithelial cells induces recruitment of macrophages to the mammary epithelium, which contributes to FGFR1-induced tumor formation. Using 3D co-culture assays in which FGFR1 was activated specifically in mammary epithelial cells, macrophages were found to associate with the epithelial structures and induce invasion of the cells into the surrounding basement membrane matrix. Further studies demonstrated that this interaction was dependent upon increased secretion of Cxcr2-binding chemokines by macrophages following exposure to FGFR1-induced soluble factors produced by the epithelium. For details see Bohrer and Schwertfeger on page 1294.