Contents

Molecular Cancer Research
Defining the Molecular Basis of Malignancy and Progression
January 2013 • Volume 11 • Number 1

Highlights of This Issue 1

EDITORIAL

3  Middlegame Theory, Cancer Style: A Message from the Editor-in-Chief
Karen E. Knudsen

REVIEW

5  Radiation Survivors: Understanding and Exploiting the Phenotype following Fractionated Radiation Therapy
Adeola Y. Makinde, Molykutty John-Aryankalayil, Sanjeevani T. Palayoor, David Cerna, and C. Norman Coleman

PERSPECTIVE

13  Predicting Enhanced Cell Killing through PARP Inhibition
Julie K. Horton and Samuel H. Wilson

CELL CYCLE AND SENESCENCE

19  Human Papilloma Virus (HPV) E7-Mediated Attenuation of Retinoblastoma (Rb) Induces hPygopus2 Expression via ELF-1 in Cervical Cancer

CELL DEATH AND SURVIVAL

31  STAT3-RANTES Autocrine Signaling Is Essential for Tamoxifen Resistance in Human Breast Cancer Cells
Eun Hee Yi, Chang Seok Lee, Jin-Ku Lee, Young Ju Lee, Min Kyung Shin, Chung-Hyun Cho, Keon Wook Kang, Jung Weon Lee, Wonshik Han, Dong-Young Noh, Yong-Nyun Kim, Ik-Hyun Cho, and Sang-kyu Ye

CHROMATIN, GENE, AND RNA REGULATION

43  The Novel miR-7515 Decreases the Proliferation and Migration of Human Lung Cancer Cells by Targeting c-Met
Ji Min Lee, Jung Ki Yoo, Hanna Yoo, Ho Yong Jung, Dong Ryal Lee, Hye Cheol Jeong, Seoung Hun Oh, Hyung Min Chung, and Jin Kyeoung Kim

54  Contribution of HIF-1α in 4E-BP1 Gene Expression
Rania Azar, Charline Lasfargues, Corinne Bousquet, and Stéphane Pyronnet

ONCOGENES AND TUMOR SUPPRESSORS

62  Targeted Inactivation of HDAC2 Restores p16INK4a Activity and Exerts Antitumor Effects on Human Gastric Cancer
Jeong Kyu Kim, Ji Heon Noh, Jung Woo Eun, Kwang Hwa Jung, Hyun Jin Bae, Qingyu Shen, Min Gyu Kim, Young Gyoon Chang, Seung-Jin Kim, Won Sang Park, Jung Young Lee, Jurgen Borlak, and Suk Woo Nam

SIGNAL TRANSDUCTION

74  Multiple Functions of Sushi Domain Containing 2 (SUSD2) in Breast Tumorigenesis
Allison P. Watson, Rick L. Evans, and Kristi A. Egland

86  Regulation of CXCR4-Mediated Invasion by DARRP-32 in Gastric Cancer Cells
Shoumin Zhu, Jun Hong, Manish K Tripathi, Vikas Sehdev, Abbes Belkhiri, and Wael El-Rifai

95  Genetic Ablation of the Tetraspanin CD151 Reduces Spontaneous Metastatic Spread of Prostate Cancer in the TRAMP Model
Ben T. Copeland, Matthew J. Bowman, and Leonie K. Ashman

Defining the Molecular Basis of Malignancy and Progression iii www.aacrjournals.org

Downloaded from mcr.aacrjournals.org on June 19, 2017. © 2013 American Association for Cancer Research.
ABOUT THE COVER

SUSD2 (Sushi Domain Containing 2) is a membrane surface protein that plays a role in immune evasion promoting breast tumorigenesis. Immunohistochemical analysis of SUSD2 in benign breast tissue was performed using an anti-SUSD2 antibody followed by counterstaining with hematoxylin. Brown stain indicates the presence of SUSD2. Weak to no staining was observed in normal epithelial cells of benign ducts and lobules; however, staining was present in the endothelial cells lining blood vessels. For further details, please see Watson and colleagues on page 74 in this issue.