

MOLECULAR CANCER RESEARCH

TABLE OF CONTENTS

HIGHLIGHTS

669 Selected Articles from This Issue

CANCER GENES AND NETWORKS

671 **27-Hydroxycholesterol Impairs Plasma Membrane Lipid Raft Signaling as Evidenced by Inhibition of IL6-JAK-STAT3 Signaling in Prostate Cancer Cells**
Shweta Dambal, Mahmoud Alfaqih, Sergio Sanders, Erick Maravilla, Adela Ramirez-Torres, Gloria C. Galvan, Mariana Reis-Sobreiro, Mirja Rotinen, Lucy M. Driver, Matthew S. Behrove, Tijana Jovanovic Talisman, Junhee Yoon, Sungyong You, James Turkson, Jen-Tsan Chi, Michael R. Freeman, Everardo Macias, and Stephen J. Freedland

685 **OLR1 Promotes Pancreatic Cancer Metastasis via Increased c-Myc Expression and Transcription of HMGA2**
AC Gang Yang, Guangbing Xiong, Mengyu Feng, Fanguy Zhao, Jiangdong Qiu, Yueze Liu, Zhe Cao, Huanyu Wang, Jinshou Yang, Lei You, Lianfang Zheng, Taiping Zhang, and Yupei Zhao

698 **Histone Demethylase JMJD1A Promotes Tumor Progression via Activating Snail in Prostate Cancer**
AC Dong-E Tang, Yong Dai, Ling-Ling Fan, Xin-Yan Geng, De-Xue Fu, Hao-Wu Jiang, and Song-Hui Xu

709 **Constitutive CHK1 Expression Drives a pSTAT3-CIP2A Circuit that Promotes Glioblastoma Cell Survival and Growth**
Anchit Khanna, Julie A.I. Thoms, Brett W. Stringer, Sylvia A. Chung, Kathleen S. Ensbey, Toni Rose Jue, Zeenat Jahan, Shruthi Subramanian, Govardhan Anande, Han Shen, Ashwin Unnikrishnan, Kerrie L. McDonald, Bryan W. Day, and John E. Pimanda

GENOME MAINTENANCE

723 **Nucleostemin Modulates Outcomes of Hepatocellular Carcinoma via a Tumor Adaptive Mechanism to Genomic Stress**
Junying Wang, Daniel J. McGrail, Parnit K. Bhupal, Wen Zhang, Kuan-Yu Lin, Yi-Hsuan Ku, Tao Lin, Hongfu Wu, Kyle C. Tsai, Kaiyi Li, Cheng-Yuan Peng, Milton J. Finegold, Shiaw-Yih Lin, and Robert Y.L. Tsai

NEW HORIZONS IN CANCER BIOLOGY

735 **Endogenous PAD4 in Breast Cancer Cells Mediates Cancer Extracellular Chromatin Network Formation and Promotes Lung Metastasis**
Lai Shi, Huanling Yao, Zheng Liu, Ming Xu, Allan Tsung, and Yanming Wang

RNA BIOLOGY

748 **Circular RNA hsa_circ_0014130 Inhibits Apoptosis in Non-Small Cell Lung Cancer by Sponging miR-136-5p and Upregulating BCL2**
AC Ying Geng, Yongxia Bao, Wei Zhang, Lili Deng, Dongju Su, and Hongyan Zheng

SIGNAL TRANSDUCTION AND FUNCTIONAL IMAGING

757 **Complex Rab4-Mediated Regulation of Endosomal Size and EGFR Activation**
Kate Tubbesing, Jamie Ward, Raymond Abini-Agbomson, Aditi Malhotra, Alena Rudkouskaya, Janine Warren, John Lamar, Nina Martino, Alejandro P. Adam, and Margarida Barroso

774 **c-Src Phosphorylates and Inhibits the Function of the CIC Tumor Suppressor Protein**
Severa Bunda, Pardeep Heir, Annie Si Cong Li, Yasin Mamatjan, Gelareh Zadeh, and Kenneth Aldape

787 **A Noncanonical Role of Fructose-1, 6-Bisphosphatase 1 Is Essential for Inhibition of Notch1 in Breast Cancer**
Chao Lu, Chune Ren, Tingting Yang, Yonghong Sun, Pengyun Qiao, Dan Wang, Shijun Lv, and Zhenhai Yu

CORRECTION

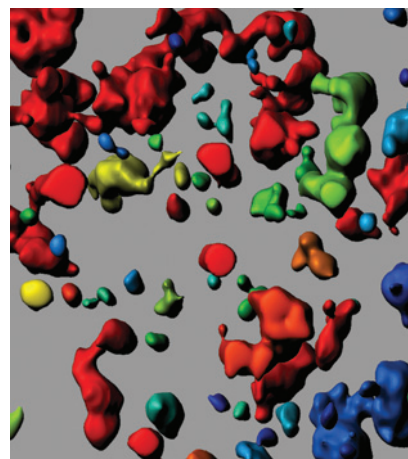
797 **Correction: Targeting IDH1 as a Prosenescent Therapy in High-grade Serous Ovarian Cancer**

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TABLE OF CONTENTS

ABOUT THE COVER

Internalization of activated epidermal growth factor receptor (EGFR) via early endosomes plays a key role in mediating EGFR signaling and activity. The cover depicts a three-dimensional rendering of EGFR-containing endosomes as calculated from the average immunofluorescence intensity of EGFR-phospho 1068. The authors found that non-cancerous MCF10A cells exhibited a rapid increase in endosome size and phospho-1068 EGFR, which returned quickly to baseline levels. By contrast, cancerous MDA-MB-231 cells exhibited a slightly delayed increase in these metrics and larger endosomes overall, which persisted over a longer duration and correlated with sustained EGFR signaling. Concordantly, modulation of endosome size via ablation or over-expression of Rab4A was shown to harbor implications for the strength and duration of EGFR activation in breast cancer cells. For more information, see the Highlight on page 669 and the article on page 757.



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