## Table of Contents

**August 2014 • Volume 12 • Number 8**

**Highlights of This Issue** 1067

**REVIEW**

1069 Transcriptional Roles of PARP1 in Cancer  
Matthew J. Schiewer and Karen E. Knudsen

**RapidIMPACT**

1081 The IncRNA PCAT29 Inhibits Oncogenic Phenotypes in Prostate Cancer  
Rohit Malik, Lalit Patel, John R. Presnner, Yang Shi,  
Matthew K. Iyer, Shruthi Subramaniyan,  
Alexander Carley, Yashar S. Niknafs, Anirban Sahu,  
Sumin Han, Teng Ma, Meilan Liu, Irfan A. Asangani,  
Xiaojun Jing, Xuhong Cao,  
Saravana M. Dhanasekaran, Dan R. Robinson,  
Felix Y. Feng, and Arul M. Chinnaiyan

**CELL CYCLE AND SENESCENCE**

1088 Cooperativity of E-cadherin and Smad4 Loss to Promote Diffuse-Type Gastric Adenocarcinoma and Metastasis  
Jun Won Park, Seok Hoon Jang, Dong Min Park,  
Na Jung Lim, Chuxia Deng, Dae Yong Kim,  
Jeffrey E. Green, and Hark Kyun Kim

**CELL DEATH AND SURVIVAL**

1100 Autocrine VEGF/VEGFR1 Signaling in a Subpopulation of Cells Associates with Aggressive Osteosarcoma  
Tetsuro Ohba, Justin M.M. Cates, Heather A. Cole,  
David A. Slosky, Hirotaka Haro, Takashi Ando,  
Herbert S. Schwartz, and Jonathan G. Schoenecker

**CHROMATIN, GENE, AND RNA REGULATION**

1112 Prognostic Potential of DNA Methylation and Transcript Levels of HIF1A and EPAS1 in Colorectal Cancer  
Agieszka Anna Rawłuszko-Wieczorek,  
Karolina Horbacka, Piotr Krokowicz,  
Matthew Misztal, and Paweł Piotr Jagodziński

**DNA DAMAGE AND REPAIR**

1128 Base Excision Repair Defects Invoke Hypersensitivity to PARP Inhibition  
Julie K. Horton, Donna F. Stefanick, Rajendra Prasad,  
Natalie R. Gassman, Padmini S. Kedar, and  
Samuel H. Wilson

**GENOMICS**

1140 Convergent and Divergent Cellular Responses by ErbB4 Isoforms in Mammary Epithelial Cells  
Vikram B. Wali, Jonathan W. Haskins,  
Maureen Gilmore-Hebert, James T. Platt,  
Zongzhi Liu, and David F. Stern

**ONCOGENES AND TUMOR SUPPRESSORS**

1156 Conserved Oncogenic Behavior of the FAM83 Family Regulates MAPK Signaling in Human Cancer  
Rocky Cipriano, Kristy L.S. Miskimen,  
Benjamin L. Bryson, Chase R. Foy,  
Courtney A. Bartel, and Mark W. Jackson

**SIGNAL TRANSDUCTION**

1166 VDR Activity Is Differentially Affected by Hic-5 in Prostate Cancer and Stromal Cells  
Joshua D. Solomon, Marjet D. Heitzer, Teresa T. Liu,  
Jan H. Beumer, Robert A. Parise, Daniel P. Normolle,  
Damien A. Leach, Grant Buchanan, and  
Donald B. DeFranco

1181 VDR Status Arbitrates the Prometastatic Effects of Tumor-Associated Macrophages  
Yan Zhang, Quanjun Guo, Zhujuan Zhang, Nan Bai,  
Ze Liu, Min Xiong, Yuquan Wei, Rong Xiang, and  
Xiaoyue Tan

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ABOUT THE COVER

Osteosarcoma is the most common primary bone malignancy in children and young adults and accounts for over 50% of primary skeletal malignancies. Previous reports have demonstrated that expression of VEGF/VEGF-R1 in human osteosarcoma is associated with an aggressive clinical course. Angiographies of K7M3 osteosarcoma-injected murine tibias immunoselected for either VEGF-R1-low expression (Low) or VEGF-R1-high expression (High) compared to contralateral limb (Control) demonstrate that high levels of VEGF-R1 are associated with increased tumor growth and tumor angiogenesis. These results strongly suggest that autocrine VEGF-R1 signaling in a relatively small subpopulation of tumor plays a pivotal role in osteosarcoma progression. These findings may lead to improved stratification of high-risk osteosarcoma and novel strategies for anti-neoplastic therapy based on the inhibition of angiogenesis in this specific tumor type. For more information, see the article by Ohba and colleagues, beginning on page 1100 in this issue.