

Highlights of This Issue 1125

REVIEW

- 1127** Intratumor Heterogeneity: Novel Approaches for Resolving Genomic Architecture and Clonal Evolution
Ravi G. Gupta and Robert A. Somer

CELL DEATH AND SURVIVAL

- 1138** Infiltrating Myeloid Cells Exert Protumorigenic Actions via Neutrophil Elastase
Irina Lerman, Maria de la Luz Garcia-Hernandez, Javier Rangel-Moreno, Luis Chiriboga, Chunliu Pan, Kent L. Nastiuk, John J. Krolewski, Aritro Sen, and Stephen R. Hammes
- 1153** Near-Infrared Photoimmunotherapy Targeting Prostate Cancer with Prostate-Specific Membrane Antigen (PSMA) Antibody
Tadanobu Nagaya, Yuko Nakamura, Shuhei Okuyama, Fusa Ogata, Yasuhiro Maruoka, Peter L. Choyke, and Hisataka Kobayashi

CHROMATIN, EPIGENETICS, AND RNA REGULATION

- 1163** Inhibition of the Cell Death Pathway in Nonalcoholic Steatohepatitis (NASH)-Related Hepatocarcinogenesis Is Associated with Histone H4 lysine 16 Deacetylation
Aline de Conti, Kostiantyn Dreval, Volodymyr Tryndyak, Orish E. Orisakwe, Sharon A. Ross, Frederick A. Beland, and Igor P. Pogribny
- 1173** Notch Represses Transcription by PRC2 Recruitment to the Ternary Complex
Xiaoqing Han, Prathibha Ranganathan, Christos Tzimas, Kelly L. Weaver, Ke Jin, Luisana Astudillo, Wen Zhou, Xiaoxia Zhu, Bin Li, David J. Robbins, and Anthony J. Capobianco

DNA DAMAGE AND REPAIR

- 1184** NR4A2 Promotes DNA Double-strand Break Repair Upon Exposure to UVR
Kelvin Yin, Yash Chhabra, Romain Tropée, Yi Chieh Lim, Mitchell Fane, Eloise Dray, Richard A. Sturm, and Aaron G. Smith

GENOMICS

- 1197** Normal and Cancerous Tissues Release Extrachromosomal Circular DNA (eccDNA) into the Circulation
Pankaj Kumar, Laura W. Dillon, Yoshiyuki Shibata, Amir A. Jazaeri, David R. Jones, and Anindya Dutta
- 1206** The Landscape of Isoform Switches in Human Cancers
Kristoffer Vitting-Seerup and Albin Sandelin

METABOLISM

- 1221** Real-Time Transferrin-Based PET Detects MYC-Positive Prostate Cancer
Rahul Aggarwal, Spencer C. Behr, Pamela L. Paris, Charles Truillet, Matthew F.L. Parker, Loc T. Huynh, Junnian Wei, Byron Hann, Jack Youngren, Jiaoti Huang, Gayatri Premasekharan, Nimna Ranatunga, Emily Chang, Kenneth T. Gao, Charles J. Ryan, Eric J. Small, and Michael J. Evans
- 1230** PPAR δ Reprograms Glutamine Metabolism in Sorafenib-Resistant HCC
Mi-Jin Kim, Yeon-Kyung Choi, Soo Young Park, Se Young Jang, Jung Yi Lee, Hye Jin Ham, Byung-Gyu Kim, Hui-Jeon Jeon, Ji-Hyun Kim, Jung-Guk Kim, In-Kyu Lee, and Keun-Gyu Park

ONCOGENES AND TUMOR SUPPRESSORS

- 1243** Histone H3.3K27M Represses *p16* to Accelerate Gliomagenesis in a Murine Model of DIPG
Francisco J. Cordero, Zhiqing Huang, Carole Grenier, Xingyao He, Guo Hu, Roger E. McLendon, Susan K. Murphy, Rintaro Hashizume, and Oren J. Becher
- 1255** IKK β -Mediated Resistance to Skin Cancer Development Is *Ink4a/Arf*-Dependent
Angustias Page, Ana Bravo, Cristian Suarez-Cabrera, Josefa P. Alameda, M. Llanos Casanova, Corina Lorz, Carmen Segrelles, José C. Segovia, Jesús M. Paramio, Manuel Navarro, and Angel Ramirez
- 1265** KIT^{D816V} Induces SRC-Mediated Tyrosine Phosphorylation of MITF and Altered Transcription Program in Melanoma
Bengt Phung, Julhash U. Kazi, Alicia Lundby, Kristin Bergsteinsdottir, Jianmin Sun, Colin R. Goding, Göran Jönsson, Jesper V. Olsen, Eiríkur Steingrímsson, and Lars Rönnstrand

Table of Contents

SIGNAL TRANSDUCTION

- 1275** MELK and EZH2 Cooperate to Regulate Medulloblastoma Cancer Stem-like Cell Proliferation and Differentiation



Hailong Liu, Qianwen Sun, Youliang Sun, Junping Zhang, Hongyu Yuan, Shuhuan Pang, Xueling Qi, Haoran Wang, Mingshan Zhang, Hongwei Zhang, Chunjiang Yu, and Chunyu Gu

- 1287** Augmented TME O-GlcNAcylation Promotes Tumor Proliferation through the Inhibition of p38 MAPK

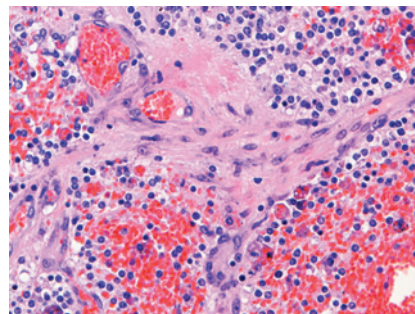
Kazumasa Moriwaki and Michio Asahi

AC icon indicates AuthorChoice

For more information please visit www.aacrjournals.org

ABOUT THE COVER

Diffuse intrinsic pontine glioma (DIPG) is an incurable childhood brain cancer that commonly harbors somatic methionine substitutions in lysine 27 of histone 3 (H3 K27M). The image at right, on which the cover is based, shows a high-magnification hematoxylin and eosin (H&E) stained murine DIPG initiated by expression of platelet-derived growth factor-B (PDGF-B) and H3.3 K27M in nestin-expressing progenitors of the neonatal brainstem. The image illustrates an area of microvascular proliferation, a histological feature of a high-grade glioma. The cover is an artistic use of the image, kept intact but repeated and rotated for visual effect. Please see the article by Cordero and colleagues (beginning on page 1243) for more information.



Molecular Cancer Research

15 (9)

Mol Cancer Res 2017;15:1125-1298.

Updated version Access the most recent version of this article at:
<http://mcr.aacrjournals.org/content/15/9>

E-mail alerts [Sign up to receive free email-alerts](#) related to this article or journal.

Reprints and Subscriptions To order reprints of this article or to subscribe to the journal, contact the AACR Publications Department at pubs@aacr.org.

Permissions To request permission to re-use all or part of this article, contact the AACR Publications Department at permissions@aacr.org.