## HIGHLIGHTS
741 Selected Articles from This Issue

## MINIREVIEW
743 Molecular Determinants of Medulloblastoma Metastasis and Leptomeningeal Dissemination
Min Li, Yuhao Deng, and Wangming Zhang

## PERSPECTIVE
753 Old Dog, New Trick: Type I IFN–Based Treatment for Acute Myeloid Leukemia
Abdullah Alsufyani, Rehab Alanazi, John F. Woolley, and Lekh N. Dahal

## CANCER GENES AND NETWORKS
757 Adaptor Protein ShcD/SHC4 Interacts with Tie2 Receptor to Synergistically Promote Glioma Cell Invasion
Manali Tilak, Begüm Alural, Sarah E. Wismer, Megan I. Brasher, Laura A. New, Steven D. Sheridan, Roy H. Perlis, Marc G. Coppolino, Jasmin Lalonde, and Nina Jones

771 Loss of Aryl Hydrocarbon Receptor Promotes Colon Tumorigenesis in Apc^{Min}/+;Kras^{G12D}/+ Mice
Huajun Han, Laurie A. Davidson, Martha Hensel, Grace Yoon, Kerstin Landrock, Clinton Allred, Arul Jayaraman, Ivan Ivanov, Stephen H. Safe, and Robert S. Chapkin

784 Functional Hierarchy and Cooperation of EMT Master Transcription Factors in Breast Cancer Metastasis
Joseph B. Addison, Maria A. Voronkova, James H. Fugett, Chen-Chung Lin, Nathaniel C. Linville, Brandon Trinh, Ryan H. Livengood, Matthew B. Smolkin, Michael D. Schaller, J. Michael Ruppert, Elena N. Pugacheva, Chad J. Creighton, and Alexey V. Ivanov

799 Long Noncoding RNA NEAT1 Acts as a Molecular Switch for BRD4 Transcriptional Activity and Mediates Repression of BRD4/WDRS Target Genes
Mariaelena Pistoni, Teresa Rossi, Benedetta Donati, Federica Torricelli, Maurizio Polano, and Alessia Ciarrocchi

812 Crenolanib Regulates ERK and AKT/mTOR Signaling Pathways in RAS/BRAF-Mutated Colorectal Cancer Cells and Organoids
Shiko Fujino, Norikatsu Miyoshi, Aya Ito, Masayoshi Yasui, Masayuki Ohue, Takayuki Ogino, Hidekazu Takahashi, Mamoru Uemura, Chu Matsuda, Tsunekazu Mizushima, Yuichiro Doki, and Hidetoshi Eguchi

823 Colorectal Cancer–Associated Smad4 R361 Hotspot Mutations Boost Wnt/β-Catenin Signaling through Enhanced Smad4–LEF1 Binding
Claudia B. Lanauze, Priyanka Sehgal, Katharina Hayer, Manuel Torres-Diz, James A. Pippin, Struan F.A. Grant, and Andrei Thomas-Tikhonenko

## CANCER “-OMICS”
834 Colorectal Cancer–Derived CAT1-Positive Extracellular Vesicles Alter Nitric Oxide Metabolism in Endothelial Cells and Promote Angiogenesis
Atsushi Ikeda, Satoshi Nagayama, Makoto Sumazaki, Makoto Konishi, Risa Fujii, Naomi Saich, Satoshi Muraoka, Daisuke Saigusa, Hideaki Shimada, Yoshiharu Sakai, and Koji Ueda

847 Genomically Complex Human Angiosarcoma and Canine Hemangiosarcoma Establish Convergent Angiogenic Transcriptional Programs Driven by Novel Gene Fusions
Jong Hyuk Kim, Kate Megquier, Rachael Thomas, Aaron L. Sarver, Jung Min Song, Yoon Tae Kim, Nuojin Cheng, Ashley J. Schulte, Michael A. Linden, Paari Murugan, LeAnn Oseth, Colleen L. Forster, Ingegerd Elvers, Ross Swofford, Jason Turner-Maier, Elinor K. Karlsson, Matthew Breen, Kerstin Lindblad-Toh, and Jaime F. Modiano
## TABLE OF CONTENTS

### CELL FATE DECISIONS

862  
**Palbociclib Renders Human Papilloma Virus-Negative Head and Neck Squamous Cell Carcinoma Vulnerable to the Senolytic Agent Navitoclax**  
Nicholas J. Gadsden, Cory D. Fulcher, Daniel Li, Nitisha Shrivastava, Carlos Thomas, Jeffrey E. Segall, Michael B. Prystowsky, Nicolas F. Schlecht, Evripidis Gavathiotis, and Thomas J. Ow

874  
**Metabolic Regulator IAPP (Amylin) Is Required for BRAF and RAS Oncogene-Induced Senescence**  
Sam Garnett, Angeline de Bruyns, Veronique Provencher-Tom, Kendall Dutchak, Ran Shu, and David Dankort

886  
**Selective ERBB2 and BCL2 Inhibition Is Synergistic for Mitochondrial-Mediated Apoptosis in MDS and AML Cells**  

### SIGNAL TRANSDUCTION AND FUNCTIONAL IMAGING

913  
**Preclinical Evaluation of Gilteritinib on NPM1-ALK-Driven Anaplastic Large Cell Lymphoma Cells**  

921  
**Silencing of SmgGDS, a Novel mTORC1 Inducer That Binds to RHEBs, Inhibits Malignant Mesothelioma Cell Proliferation**  
Tatsuhiro Sato, Satomi Mukai, Haruna Ikeda, Emi Mishiro-Sato, Ken Akao, Toshiyuki Kobayashi, Okio Hino, Wataru Shimono, Yoshio Shibagaki, Seisuke Hattori, and Yoshitaka Sekido

### GENOME MAINTENANCE

900  
**The Bromodomain Inhibitor PFI-3 Sensitizes Cancer Cells to DNA Damage by Targeting SWI/SNF**  
Daye Lee, Da-Yeon Lee, You-Son Hwang, Hye-Ran Seo, Shin-Ai Lee, and Jongbum Kwon

---

**AC icon indicates AuthorChoice**

For more information please visit www.aacrjournals.org

### ABOUT THE COVER

Gliomas are marked by a diffuse pattern of tumor cell invasion into the cerebrum, which contributes to poor outcomes in patients with advanced disease. The cover depicts a cross-section of a cerebral organoid co-cultured with GFP-labeled U87 glioma cell spheroids stably expressing adaptor protein ShcD and receptor tyrosine kinase Tie2. The glioma cells (green) can be observed invading the organoid model, stained with neuronal marker Tuj1 (magenta). The authors show that interactions between ShcD and Tie2 trigger signaling events within glioma cells that promote invasiveness and could be targeted for therapeutic benefit. For more information, see the article on page 757.