MOLECULAR CANCER RESEARCH

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1802  Bidirectional Regulatory Cross-Talk between Cell Context and Genomic Aberrations Shapes Breast Tumorigenesis
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1818  Chemical Screen Identifies Diverse and Novel Histone Deacetylase Inhibitors as Repressors of NUT Function: Implications for NUT Carcinoma Pathogenesis and Treatment
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1831  SOX9 Defines Distinct Populations of Cells in SHH Medulloblastoma but Is Not Required for Math-Driven Tumor Formation
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1840  Heterogeneity and Cancer-Related Features in Lymphangioleiomyomatosis Cells and Tissue
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1854  Longitudinal Analysis of Human Pancreatic Adenocarcinoma Development Reveals Transient Gene Expression Signatures
Jungsun Kim, Taelor Ekstrom, Wenli Yang, Greg Donahue, Dmytro Grygoriev, Thuy T.M. Ngo, John L. Muschler, Terry Morgan, and Kenneth S. Zaret

1868  N-Glycosylation Patterns Correlate with Hepatocellular Carcinoma Genetic Subtypes
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1878  Monoallelic IDH1 R132H Mutation Mediates Glioma Cell Response to Anticancer Therapies via Induction of Senescence
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1889  The PI3K/mTOR Inhibitor Ompalisib Suppresses Nonhomologous End Joining and Sensitizes Cancer Cells to Radio- and Chemotherapy
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#### METABOLISM

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**1917**  
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**1929**  
NP-ALT, a Liposomal:Peptide Drug, Blocks p27Kip1 Phosphorylation to Induce Oxidative Stress, Necroptosis, and Regression in Therapy-Resistant Breast Cancer Cells  
Irina Jilishitz, Jason Luis Quiñones, Priyank Patel, Grace Chen, Jared Pasetsky, Allison VanInwegen, Scott Schoninger, Manasi P. Jogalekar, Vladislav Tsiperson, Lingyue Yan, Yun Wu, Susan R.S. Gottesman, Jonathan Somma, and Stacy W. Blain

#### SIGNAL TRANSDUCTION AND FUNCTIONAL IMAGING

**1946**  
SHP2 Potentiates the Oncogenic Activity of β-Catenin to Promote Triple-Negative Breast Cancer  
Elisha Martin and Yehenew M. Agazie

#### TUMOR MICROENVIRONMENT AND IMMUNOBIOLOGY

**1957**  
ADGRL4/ELTD1 Expression in Breast Cancer Cells Induces Vascular Normalization and Immune Suppression  
Helen Sheldon, Esther Bridges, Ildefonso Silva, Massimo Masiero, David M. Favara, Dian Wang, Russell Leek, Cameron Snell, Ioannis Roxanis, Mira Kreuzer, Uzi Gileadi, Francesca M. Buffa, Alison Banham, and Adrian L. Harris

#### ABOUT THE COVER

Sonic Hedgehog medulloblastoma (SHH-MB) is the most prevalent molecular subtype of medulloblastoma, a common and deadly pediatric brain malignancy. Significant effort has been invested into preclinical development of inhibitors directed at downstream targets of the SHH pathway, such as the stem cell factor and proto-oncogene SOX9. The cover depicts immuno-fluorescence imaging of SHH-MB mouse tumor models, in which SOX9 expression is labeled in red and the glial marker GFAP is labeled in green. The authors demonstrate that, even though SOX9 expression is an intrinsic feature of SHH-MB that is not shared by other medulloblastoma subtypes, interference with SOX9 expression did not significantly alter SHH-MB development or disease course. They therefore argue that efforts to develop SOX9 inhibitors for clinical use will likely not provide significant benefit for SHH-MB patients if advanced to the clinic, and suggest that alternative targets must be identified. For more information, see the Highlight on page 1793 and the article on page 1831.

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