

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 Math1-Driven Tumor Formation

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1854 Longitudinal Analysis of Human Pancreatic Adenocarcinoma Development Reveals Transient Gene Expression Signatures

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1868 N-Glycosylation Patterns Correlate with Hepatocellular Carcinoma Genetic Subtypes

Andrew DelaCourt, Alyson Black, Peggi Angel, Richard Drake, Yujin Hoshida, Amit Singal, David Lewin, Bachir Taouli, Sara Lewis, Myron Schwarz, M. Isabel Fiel, and Anand S. Mehta

CELL FATE DECISIONS

1878 Monoallelic *IDH1* R132H Mutation Mediates Glioma Cell Response to Anticancer Therapies via Induction of Senescence

Daqian Zhan, Ding Ma, Shuang Wei, Bachchu Lal, Yi Fu, Charles Eberhart, John Laterra, Mingyao Ying, Yunqing Li, Alan Meeker, Hernando Lopez-Bertoni, and Shuli Xia

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1889 The PI3K/mTOR Inhibitor Ompalisib Suppresses Nonhomologous End Joining and Sensitizes Cancer Cells to Radio- and Chemotherapy

Jie Du, Fuqiang Chen, Jiahua Yu, Lijun Jiang, and Meijuan Zhou

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METABOLISM

- 1900** **Mutant p53 Attenuates Oxidative Phosphorylation and Facilitates Cancer Stemness through Downregulating miR-200c-PCK2 Axis in Basal-Like Breast Cancer**
Chi-Hong Chao, Chen-Yun Wang, Cing-Hong Wang, Ting-Wen Chen, Huai-Yu Hsu, Hao-Wei Huang, Chia-Wei Li, and Ru-Tsun Mai

NEW HORIZONS IN CANCER BIOLOGY

- 1917** **Gene Body Methylation of the Lymphocyte-Specific Gene *CARD11* Results in Its Overexpression and Regulates Cancer mTOR Signaling**
Michael H. McGuire, Santosh K. Dasari, Hui Yao, Yunfei Wen, Lingegowda S. Mangala, Emine Bayraktar, Wencai Ma, Cristina Ivan, Einav Shoshan, Sherry Y. Wu, Eric Jonasch, Menashe Bar-Eli, Jing Wang, Keith A. Baggerly, and Anil K. Sood
- 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

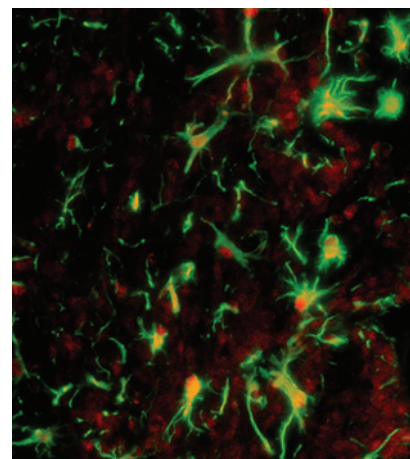
TUMOR MICROENVIRONMENT AND IMMUNOBIOLOGY

- 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 immunofluorescence 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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