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*Refining Targeted Therapy Opportunities for BRAF-Mutant Melanoma ...................... 799*
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**REVIEW** Tumor Evolution as a Therapeutic Target ............. 805

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**RESEARCH ARTICLES**

**AACR Project GENIE: Powering Precision Medicine through an International Consortium** .......... 818

The AACR Project GENIE Consortium

Précis: AACR Project GENIE is an international consortium that seeks to share integrated clinical and genomic data from patients with cancer to promote cancer precision medicine research.

See commentary, p. 796

**Biomarker Accessible and Chemically Addressable Mechanistic Subtypes of BRAF Melanoma** .................. 832


Précis: Addiction to SOX10 stratifies melanoma into two mechanistic subtypes that are distinguished by sensitivity to either BRAF/MEK inhibitors or TBK1/IKKe inhibitors.

See commentary, p. 799

**Synergistic Immunostimulatory Effects and Therapeutic Benefit of Combined Histone Deacetylase and Bromodomain Inhibition in Non–Small Cell Lung Cancer** ........................... 852


Précis: Combined HDAC6 and BET inhibition promotes T-cell activation and function and suppresses Treg activity to enhance the antitumor immune response and reduce tumor growth in a mouse model of NSCLC.
Epigenetic Identity in AML Depends on Disruption of Nonpromoter Regulatory Elements and Is Affected by Antagonistic Effects of Mutations in Epigenetic Modifiers


Précis: Comprehensive methylome sequencing of primary AML samples reveals robust changes in cytosine methylation at nonpromoter regulatory elements, such as enhancers, that drive the epigenetic identity in AML.

PAX3–FOXO1 Establishes Myogenic Super Enhancers and Confers BET Bromodomain Vulnerability


Précis: PAX3-FOXO1 creates myogenic superenhancers and recruits BRD4, which is essential for its stability and function, suggesting the possibility for using BET inhibitors to treat fusion-positive rhabdomyosarcoma.

Modeling Renal Cell Carcinoma in Mice: Bap1 and Pbrm1 Inactivation Drive Tumor Grade


Précis: Generation of Bap1- and Pbrm1-deficient mouse models of clear cell renal cell carcinoma demonstrate that Bap1 and Pbrm1 loss determine tumor grade, and suggest that ccRCC arises from Bowman capsule cells.

Correction

Nods for Atezolizumab and Nivolumab from FDA