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Bortezomib Induces Anti–Multiple Myeloma Immune Response Mediated by cGAS/STING Pathway Activation ..........468

Précis: Robust antitumor immune response contributes to bortezomib clinical efficacy in myeloma. Induction of immunogenic cell demise and viral mimicry response via the STING pathway identifies a novel therapeutically targetable vulnerability.

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Mutation Signatures of Pediatric Acute Myeloid Leukemia and Normal Blood Progenitors Associated with Differential Patient Outcomes ..........484

Précis: A subset of pediatric AML cases harbors more somatic mutations in their genomes compared to normal blood progenitors. This subset displays expression profiles that resemble more committed progenitors and associates with better patient survival.
ZBTB33 Is Mutated in Clonal Hematopoiesis and Myelodysplastic Syndromes and Impacts RNA Splicing .......................... 500
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Monocytic Differentiation and AHR Signaling as Primary Nodes of BET Inhibitor Response in Acute Myeloid Leukemia .................. 518
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A Method for Overcoming Plasma Protein Inhibition of Tyrosine Kinase Inhibitors .................. 532
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Précis: Plasma protein binding reduces potency of staurosporine-derived tyrosine kinase inhibitors against Flt3-mutant AML. “Decoy” drugs interfering with the binding, including mifepristone, can be harnessed to restore the antileukemia activity.

ON THE COVER In this issue, Keisuke Kataoka and colleagues map the trajectory of adult T-cell leukemia/lymphoma (ATL) development driven by HTLV-1 infection in a large cohort of ATL patients, asymptomatic HTLV-1 carriers, and healthy controls. The study maps at single-cell resolution the cellular ecosystem populating the systemic immune landscape. It identifies biologically and clinically relevant cues to navigate this high-dimensional space, including phenotypic hallmark of premalignant clonal expansion. By tracking clonal evolution of the infected T cells toward malignancy, the authors reveal that the neoplastic transformation develops hand in hand with alterations in the noninfected lymphoid and myeloid compartments, including PD-L1 protein transfer from malignant T cells to their neighbors. For details, please see the article on page 450.

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