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Molecular Cancer Research

Defining the Molecular Basis of Malignancy and Progression

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ABOUT THE COVER
An activating BRAF mutation has been detected in a number of human monocyte/macrophage (histiocyte)-lineage hematopoietic neoplasms. Conditional expression of the activating BRAFV600E mutation in the mouse hematopoietic system induces aberrant growth of monocyte-lineage cells, including solid organ infiltration and a monocytosis in the circulating blood (cover image) reminiscent of human hematopoietic disorders. The mouse model affords a useful preclinical platform for understanding the biology of and developing pathway-targeted therapeutics against human monocyte-lineage hematopoietic neoplasms driven by BRAFV600E expression. For more information see the article by Kamata and colleagues on page 1530.