Molecular Cancer Research

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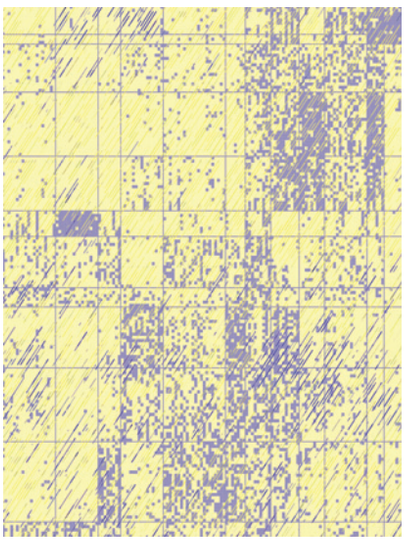
ABOUT THE COVER



This cover image is an artistic rendering of a figure that shows the results of protein expression profiling of pediatric acute lymphoid leukemia and acute myeloid leukemia patient samples assessed by Reverse Phase Protein Array methodology. Using a novel computational methodology that first considers proteins in context of functionally related groups, the "MetaGalaxy" analysis recognizes a finite number of recurring protein clusters that form constellations (horizontally) that classify patients into 12 distinct signatures (vertically). The constellations and signatures clearly separate T-ALL from B-ALL from AML cases. Protein expression signatures were largely independent of cytogenetic and mutational events, but strongly associated with Hispanic vs. non-Hispanic white ethnicity. Proteomic profiling provides a novel means of classifying leukemia patients and might ultimately guide therapeutic selection. Please see the article featuring this image, by Hoff and colleagues (beginning on page 1275), along with the related article (page 1263), for more information.

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