

CANCER EPIDEMIOLOGY,  
BIOMARKERS & PREVENTION

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## ABOUT THE COVER

The cover image is adapted from Figure 1 in the article, "Leveraging Genome and Phenome-Wide Association Studies to Investigate Genetic Risk of Acute Lymphoblastic Leukemia," by Semmes and colleagues. The figure illustrates the authors' approach for investigating phenotype associations with known disease risk variants in order to identify novel candidate risk loci and/or intermediate phenotypes for subsequent analysis in case-control cohorts. Semmes and colleagues developed a novel methodology for incorporating phenome-wide association study (PheWAS) data into genetic association studies. The authors demonstrated that PheWAS data can help investigators leverage pleiotropy to enhance genetic association studies of cancer, potentially identifying the causal risk alleles underlying association signals. For more information, see the article beginning on page 1606.



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