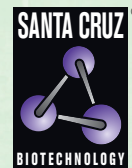


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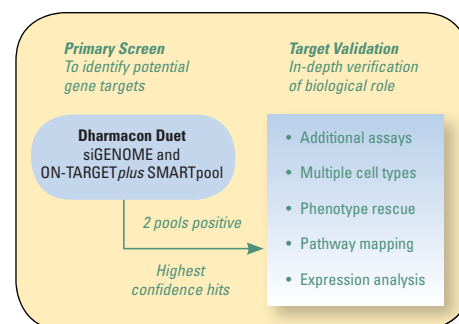
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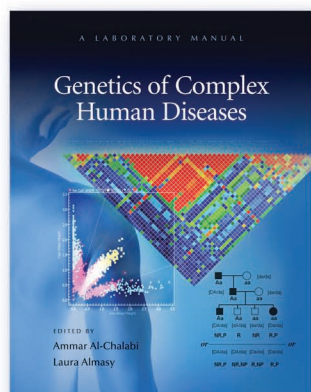


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Genetics of Complex Human Diseases

A Laboratory Manual



Edited by Ammar Al-Chalabi, *MRC Centre for Neurodegeneration Research, King's College London*, and Laura Almasy, *Southwest Foundation for Biomedical Research, San Antonio, Texas*

Many human diseases—including Alzheimer's disease, schizophrenia, cancer, and cardiovascular disease—show complex inheritance that requires sophisticated analysis. *Genetics of Complex Human Diseases: A Laboratory Manual* brings together the tools that geneticists use to find disease genes with the genetic concepts and statistical theories that underpin these research approaches. Topics covered include basic genetics and Mendelian inheritance, statistical methods, genetic epidemiology, linkage studies, transmission disequilibrium test analysis, variance components analysis, genome-wide association studies, copy-number variation, methods for high-throughput genotyping, the complexity of RNA editing, and genetic computer programs. The book's chapters, written by leading

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