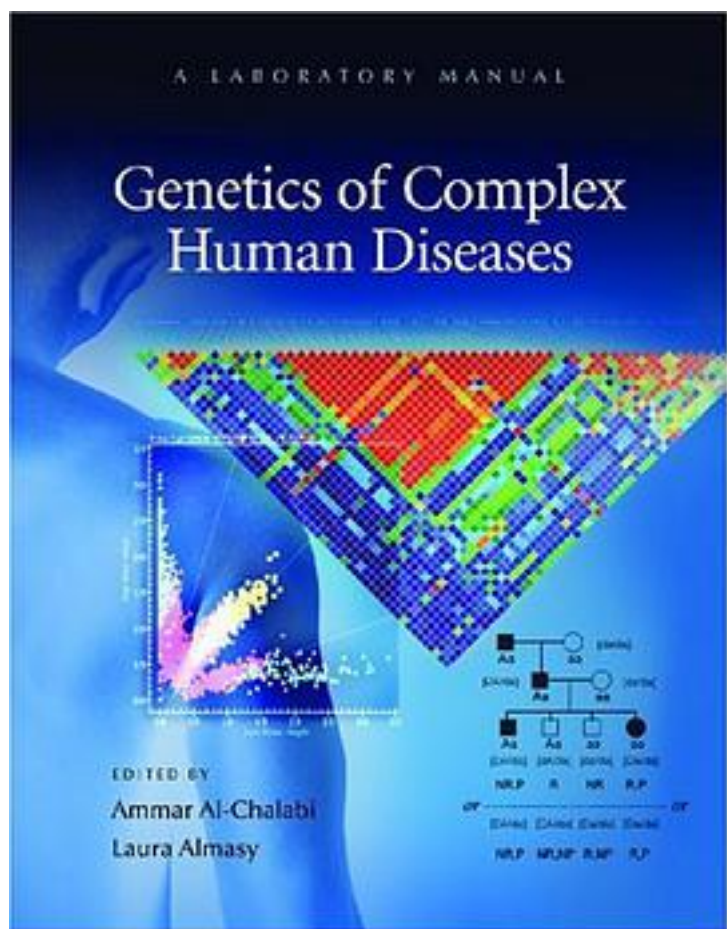


Genetics of Complex Human Diseases



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著者:Al-chalabi, Ammar (EDT)/ Almasy, Laura (EDT)

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Many human diseases including Alzheimer's disease, schizophrenia, cancer, and cardiovascular disease have complex genetics that require 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 investigators in the field, blend practical information and reviews of each topic, providing both the how and the why of complex disease analysis. Genetics of Complex Human Diseases is an important guide for anyone with an interest in human genetics or who uses genetic techniques in the study of diseases with complex inheritance.

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