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Nota di contenuto	Designing A Study For Identifying Genes In Complex Traits / William K. Scott, Marylyn D. Ritchie, Jonathan L. Haines, and Margaret A. Pericak-Vance -- Basic Concepts In Genetics / Kayla Fourzali, Abigail Deppen, and Elizabeth Heise -- Defining Disease Phenotypes / C. Hung and O. Bodamer -- Determining The Genetic Component of A Disease / Allison Ashley Koch and Evadnie Rampersaud -- Study Design For Genetic Studies / Dana C Crawford and Logan Dumitrescu -- Responsible Conduct of Research In Genetic Studies / Susan Estabrooks Hahn, Adam Buchanan, and Susan H. Blanton -- Linkage Analysis / Susan Blanton -- Data Management / Stephen D. Turner and William S. Bush -- Linkage Disequilibrium and Association Analysis / Eden R. Martin and Ren-Hua Chung -- Genome-Wide Association Studies / Jacob McCauley, Yogasudha Veturi, Shefali Setia Verma, and Marylyn D. Ritchie -- Bioinformatics of Human Genetic Disease Studies / Dale J. Hedges -- Complex Genetic Interactions / Data Mining/ Dimensionality Reduction -- William S. Bush and Stephen D. Turner -- Sample Size, Power, and

	Data Simulation / Sarah A. Pendergrass, Yi-ju Li, Susan Shao, Marylyn D. Ritchie.
Sommario/riassunto	Genetic Analysis of Complex Diseases, Third Edition provides a comprehensive introduction to the various strategies, designs, and methods of analysis for the study of human complex genetic disease. It offers a broad-based understanding of the problems and solutions based on successful applications in the design and execution of gene mapping projects. Chapters present clear and easily referenced overviews of the broad range of considerations involved in genetic analysis of human complex genetic disease, including design, sampling, data collection, linkage and association studies, and social, legal, and ethical issues. These studies promise a greater understanding of the genetic basis of common disorders, improved ability to detect risk factors, and development of new treatment strategies. The new edition of Genetics Analysis of Complex Disease is a unique and much needed resource as more and more clinical researchers are increasingly adopting a genetic perspective to investigate disease etiology, diagnostics, and prognostics.