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Nota di contenuto	Bioinformatics challenges for the geneticist / Michael R. Barnes -- Managing and manipulating genetic data / Karl W. Broman, Simon C. Heath -- The HapMap : a haplotype map of the human genome / Ellen M. Brown, Bryan J. Barratt -- Assembling a view of the human genome / Colin A.M. Semple -- Finding, delineating and analysing genes / Christopher D. Southan, Michael R. Barnes -- Comparative genomics / Martin S. Taylor, Richard R. Copley -- Identifying mutations in single gene disorders / David P. Kelsell, Diana Blaydon, Charles A. Mein -- From genome scan to culprit gene / Ian C. Gray -- Integrating genetics, genomics and epigenomics to identify disease genes / Michael R. Barnes -- Tools for statistical genetics / Aruna Bansal, Charlotte Vignal, Ralph McGinnis -- Predictive functional analysis of polymorphisms : an overview / Mary Plumptre, Michael R. Barnes -- Functional in silico analysis of gene regulatory polymorphism / Chaolin Zhang, Xiaoyue Zhao, Michael Q. Zhang -- Amino-acid properties and consequences of substitutions / Matthew J. Betts, Robert B. Russell -- Non-coding RNA bioinformatics / James R. Brown, Steve Deharo, Barry Dancis, Michael R. Barnes, Philippe Sanseau -- What are microarrays? / Catherine A. Ball, Gavin Sherlock -- Combining quantitative traits and gene-expression data / Elissa J. Chesler -- Bioinformatics and cancer genetics / Joel Greshock -- Needle in a haystack? : dealing with 500 000 SNP genome scans / Michael R. Barnes, Paul S. Derwent -- A bioinformatics perspective on genetics in drug discovery and development /

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Sommario/riassunto

Bioinformatics for geneticists describes the key bioinformatics and genetic analysis processes that are needed to identify human genetic determinants. Including SNP functional analysis and statistical genetics.