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Titolo	Bioinformatics : sequence and genome analysis / / David W. Mount
Pubbl/distr/stampa	Cold Spring Harbor, N.Y., : Cold Spring Harbor Laboratory Press, c2001
ISBN	0-87969-655-9
Descrizione fisica	1 online resource (577 p.)
Disciplina	572.8/633
Soggetti	Genetics - Data processing Bioinformatics Nucleotide sequence Amino acid sequence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- The Bioinformatics Web Site -- Contents -- Preface -- Historical Introduction and Overview -- Collecting and Storing Sequences in the Laboratory -- Alignment of Pairs of Sequences -- Multiple Sequence Alignment -- Prediction of RNA Secondary Structure -- Phylogenetic Prediction -- Database Searching for Similar Sequences -- Gene Prediction -- Protein Classification and Structure Prediction -- Genome Analysis -- Glossary -- Index.
Sommario/riassunto	A textbook based on Mount's (U. of Arizona) undergraduate and graduate courses on applying computational methods to the analysis of DNA and protein sequences. Convinced that people who use a computer program should understand how it works, he explains to biologists the underlying algorithms used and assumptions made, as well as limitations of the methods and strategies. Most of the chapters include a flowchart proposing an orderly use of the methods discussed therein. Tables in hyperlinked form identify web sites where software and programming resources are available. Annotation copyrighted by Book News Inc., Portland, OR