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Edizione	[1st ed.]
Descrizione fisica	1 online resource (398 pages)
Disciplina	572.8
Soggetti	Molecular evolution - Mathematical models Bioinformatics Evolució molecular Models matemàtics Bioinformàtica Biologia molecular Genètica Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The revolution in biological information -- Nucleic acids, proteins, and amino acids -- Molecular evolution and population genetics -- Models of sequence evolution -- Information resources for genes and proteins -- Sequence alignment algorithms -- Searching sequence databases -- Phylogenetic methods -- Patterns in protein families -- Probabilistic methods and machine learning -- Further topics in molecular evolution

and phylogenetics -- Genome evolution -- DNA microarrays and the 'omes.

Sommario/riassunto

In the current era of complete genome sequencing, Bioinformatics and Molecular Evolution provides an up-to-date and comprehensive introduction to bioinformatics in the context of evolutionary biology. This accessible text: provides a thorough examination of sequence analysis, biological databases, pattern recognition, and applications to genomics, microarrays, and proteomics emphasizes the theoretical and statistical methods used in bioinformatics programs in a way that is accessible to biological science students
