

1. Record Nr.	UNINA9910144559003321
Titolo	Bioinformatics : from nucleic acids and proteins to cell metabolism : contributions to the conference on "Bioinformatics" October 9 to 11, 1995 Braunschweig, Germany // edited by Dietmar Schomburg, Uta Lessel
Pubbl/distr/stampa	Weinheim, [Germany] : , : VCH, , 1995 ©1995
ISBN	1-281-84272-9 9786611842727 3-527-61519-9 3-527-61518-0
Descrizione fisica	1 online resource (208 p.)
Collana	GBF Monographs ; ; Volume 18
Disciplina	572.60285 572.80285
Soggetti	DNA data banks Cytology - Databases Electronic books.
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 at the end of each chapters.
Nota di contenuto	Bioinformatics : From Nucleic Acids and Proteins to Cell Metabolism; Contents; List of Authors; I. Biological Data Bases; An Integrated Services Approach to Biological Sequence Databases; II. DNA and RNA; Das Gensequenzanalysestystem DIANA; Statistical Analysis of DNA Sequences; A Consensus Match Scoring System that is Correlated with Biological Functionality; Algorithmic Representation of Large RNA Folding Landscapes; III. Protein Sequences and Structures; Statistical Significance of Local Alignments with Gaps; Classification of Local Protein Structural Motifs by Kohonen Networks Data set heterogeneities and their effects on the derivation of contact potential3D-Segmentierungstechniken und vektorwertige Bewertungsfunktionen fur symbolisches Protein-Protein-Docking; An Algorithm for the Protein Docking Problem; IV. From Molecules to Cell Metabolism; Force Field Minimization: Domain Decomposition, Positive

Definite Functions, and Wavelets; Ähnlichkeitsanalyse biologisch aktiver Moleküle mit durch Autokorrelationsvektoren trainierten selbstorganisierenden Karten; Algebraic Methods for the Analysis of Redundancy and Identifiability in Metabolic ¹³C-Labeling Systems
Simulation and Animation of Intracellular Diffusion

Sommario/riassunto

Bioinformatics, in this context the application of computer science to biological problems, has become an indispensable part of any research in the biosciences. Rapid developments in gene sequencing, structure determination as well as rational protein engineering and design have made it necessary for biologists, chemists, and computer scientists to channel their expertise into large scale collaborative projects. This GBF Monograph gives a general overview of the latest versatile activities in bioinformatics: * Biological Data Bases * DNA and RNA * Protein Sequences and Structures <
