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Current trends in Bioinformatics: An Insight / / edited by Gulshan **Titolo**

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Soggetti **Bioinformatics**

Bioinformatics

Computational biology

Proteomics Microarrays

Applied mathematics **Engineering mathematics**

Computer Appl. in Life Sciences

Mathematical and Computational Engineering

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

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in Bioinformatics -- Chapter 2- Bioinformatics in Next-Generation Genome Sequencing -- Chapter 3. The Role of Bioinformatics in Epigenetics -- Chapter 4. Three dimensional structures of

carbohydrates and glycoinformatics - An Overview -- Chapter 5.

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Metabolic Pathway Analysis Employing Bioinformatics Software --Chapter 11. The Interactomics of the RNA Induced Silencing Complex

-- Chapter 12. Computational Tools: RNA Interference in Fungal

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Sommario/riassunto

This book highlights the latest breakthrough developments in bioinformatics. It presents a series of timely, in-depth reviews, drug clinical trial studies, biodiversity informatics and thematic issues. In addition, it includes insightful reviews on advances in computational molecular/structural biology, which address areas such as computing in biomedicine and genomics, computational proteomics and systems biology, and metabolic pathway engineering. Innovations in these fields have direct impacts on key issues related to healthcare, medicine, genetic disorders, the development of agricultural products, renewable energy, and environmental protection. Written by respected leaders in the field and covering a wide range of topics involving the integration of biology with computer and information science, the book offers an ideal basis for teaching at the undergraduate and graduate levels. It can also be used for self-instruction by research investigators interested in applying bioinformatics-based analytical methods and information technologists working with academic and industrial laboratories.