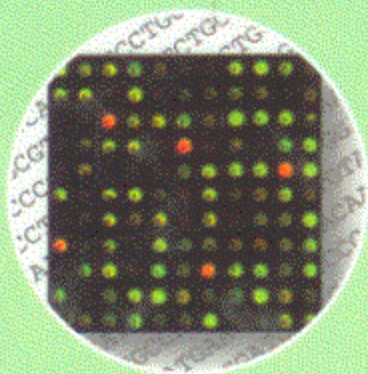
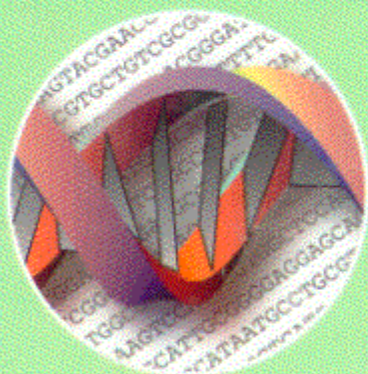
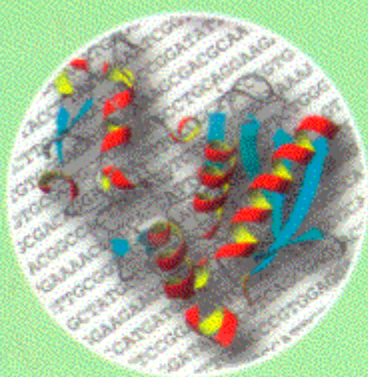




Bioinformatics

Genomics and post-genomics

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Translated by Noah Hardy

This book is an excellent introductory text describing the use of bioinformatics to analyze genomic and post-genomic data. It has been translated from the original popular French edition, which was based on a course taught at the École Polytechnique in Palaiseau. This edition has been fully revised and updated by the authors. After a brief introduction to gene structure and sequence determination, it describes the techniques used to identify genes, their protein-coding sequences and regulatory regions. The book discusses the methodology of comparative genomics, using information from different organisms to deduce information about unknown sequences. There is a comprehensive chapter on structure prediction, covering both RNA and protein. Finally, the book describes the complex networks of RNA and protein that exist within the cell and their interactions, ending with a discussion of the simulation approaches that can be used to model these networks.

Readership: Undergraduate and post-graduate students in bioinformatics and those studying biological and computer science/informatics with an interest in bioinformatics. The book will also be of value to post-doctoral researchers and more senior researchers in both industry and academia who are interested in bioinformatics and genomics.

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