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Autore	Narayanan P
Titolo	Bioinformatics [[electronic resource] ] : a primer // P. Narayanan
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Descrizione fisica	1 online resource (261 p.)
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Soggetti	Molecular biology - Data processing Bioinformatics Computational biology - Methodology
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Formato	Materiale a stampa
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Nota di contenuto	Cover; Preface; Acknowledgement; Contents; Chapter 1 Bioinformatics: Introduction; Chapter 2 Atoms and Molecules; Chapter 3 Features of Nucleic Acids; Chapter 4 Features of Proteins; Chapter 5 Physicochemical Characterization of Biomolecules; Chapter 6 Primary Structure (Sequence) Determination of Biomolecules; Chapter 7 Spatial Structure Determination of Biomolecules; Chapter 8 Protein-Ligand Interactions; Chapter 9 The Protein-folding Problem; Chapter 10. Computational Methods in Structure Prediction; Chapter 11 Database Search; Chapter 12 Data Mining, Analysis and Modeling Chapter 13 Medico- and Pharmacoinformatics Chapter 14 Molecular Engineering; Glossary; Index
Sommario/riassunto	About the Book: Bioinformatics is the bridge between experimental data in diverse biologically related disciplines and extrapolation of information, by computational analysis, about how the systems and processes function. The central aims are: (i) elucidation (by experimental methods) of structural features of the biological entities (proteins, nucleic acids, etc.), (ii) application of computational tools and approaches to study of information content, organization, and processing in biological systems, (iii) application of medical and health data at the molecular level (biomedinformatics), a

