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Nota di contenuto	Drug Discovery -- Translational Bioinformatics and Drug Discovery -- Translational Research in Drug Discovery and Development -- Exploring the Potential of Herbal Ligands towards Multidrug Resistant Bacterial Pathogens by Computational Drug Discovery -- The Progress of New Targets of Anti-HIV and Its Inhibitors -- Exploration of Drug Candidates Interacting on Amyloid- Protofibrils for Alzheimer's Disease -- Homology Modeling, Structure Based Pharmacophore Modeling, High Throughput Virtual Screening and Docking Studies of L-Type Calcium Channel for Cadmium Toxicity -- Natural Compounds Are Smart Player in Context to Anticancer Potential: An In Silico and In Vitro Advancement -- Genome Wide Association Studies -- A Survey of Bioinformatics Based Tools in RNA-Sequencing (RNA-Seq) Data Analysis -- Epigenetics and Its Role in Human Cancer -- Methods for Microbiome Analysis -- Pharmacogenomics: Clinical Perspective, Strategies and Challenges -- Computational Network Approaches and Their Applications for Complex Diseases -- Bioinformatics Applications in Clinical Microbiology -- Artificial Intelligence and Automatic Image

Sommario/riassunto

This book offers a detailed overview of translational bioinformatics together with real-case applications. Translational bioinformatics integrates the areas of basic bioinformatics, clinical informatics, statistical genetics and informatics in order to further our understanding of the molecular basis of diseases. By analyzing voluminous amounts of molecular and clinical data, it also provides clinical information, which can then be applied. Filling the gap between clinic research and informatics, the book is a valuable resource for human geneticists, clinicians, health educators and policy makers, as well as graduate students majoring in biology, biostatistics, and bioinformatics.