



The Practical Bioinformatician

By Limsoon Wong

World Scientific Publishing Co Pte Ltd. Paperback / softback. Condition: new. BRAND NEW, The Practical Bioinformatician, Limsoon Wong, Computer scientists have increasingly been enlisted as bioinformaticians to assist molecular biologists in their research. This book is a practical introduction to bioinformatics for these computer scientists. The chapters are in-depth discussions by expert bioinformaticians on both general techniques and specific approaches to a range of selected bioinformatics problems. The book is organized into clusters of chapters on the following topics: Overview of modern molecular biology and a broad spectrum of techniques from computer science; data mining, machine learning, mathematical modeling, sequence alignment, data integration, workflow development, etc.; In-depth discussion of computational recognition of functional and regulatory sites in DNA sequences; Incisive discussion of computational prediction of secondary structure of RNA sequences; Overview of computational prediction of protein cellular localization, and selected discussions of inference of protein function; Overview of methods for discovering protein-protein interactions; Detailed discussion of approaches to gene expression analysis for the diagnosis of diseases, the treatment of diseases, and the understanding of gene functions; Case studies on analysis of phylogenies, functional annotation of proteins, construction of purpose-built integrated biological databases, and development of workflows underlying the...



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