A Practical Guide to Bioinformatics Analysis

By Gabriel P.C. Fung

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A Practical Guide to Bioinformatics is suitable for advanced undergraduates and postgraduates. It takes a practical approach rather than conceptual approach and is an invaluable companion for students from their first encounter with the subject through to more advanced studies. The extensive and full-color artworks are designed to present the key concepts with simplicity, clarity and consistency. This book begins with discussing how to manage the data archives securely (Chapter 1). Data is one of the major and necessary components for bioinformatics analysis. This chapter gives us an overview of how we can protect our data. Among all kinds of bio-data, microarray data is arguably one of the most powerful and widely-use data. Chapter 2 to Chapter 4 discusses what we can do on top of microarray data. Besides microarray data analysis, network analysis is another very important research area. Chapter 5 to Chapter 7 extends the use of microarray data and focuses on network analysis in three different topics, namely, gene regulatory network, fuzzy gene network and metabolic network. Apart from analysis, annotating and browsing gene sequences is an area that we should never ignore. Chapter 8 to Chapter 9 discusses this important area. The rest of the book discusses some interesting and emerging topics in bioinformatics, which includes meiotic recombination hotspots (Chapter 10), primer and probe design for genome-wide DNA (Chapter 11), single nucleotide polymorphism analysis (Chapter 12), gene transcription regulation (Chapter 13), and protein-protein interaction network comparison (Chapter 14).

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