



Bioinformatics and Data Analysis in Microbiology

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The rapid advancement of sequencing techniques, coupled with the new methodologies of bioinformatics to handle large-scale data analysis, are providing exciting opportunities to understand microbial communities from a variety of environments, beyond previous imagination. This book provides invaluable, up-to-date, and detailed information on various aspects of bioinformatics data analysis with applications to microbiology. It describes a number of different useful bioinformatics tools, makes links to some wet-lab techniques, and explains different approaches to tackle a problem. It also talks about current challenges and limitations, gives examples of applications of bioinformatics methods to microbiology, and discusses future trends. The chapters include topics such as: genome sequencing techniques * assembly * SNP analysis * annotation * comparative genomics * microbial community profiling * metagenomics * phylogenetic microarrays * barcoding * and more. Bioinformatics and Data Analysis in Microbiology is an essential book for researchers, lecturers, and students involved in microbiology, bioinformatics, and genome analysis. Each chapter is written by experts in the field and is peer-reviewed. [Subject: Microbiology, Bioinformatics, Genomics, Life Science]

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