

Metagenomics for Microbiology

Edited by

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Concisely discussing the application of high throughput analysis to move forward our understanding of microbial principles, **Metagenomics for Microbiology** provides a solid base for the design and analysis of omics studies for the characterization of microbial consortia. The intended audience includes clinical and environmental microbiologists, molecular biologists, infectious disease experts, statisticians, biostatisticians, and public health scientists.

This book focuses on the technological underpinnings of metagenomic approaches and their conceptual and practical applications.

Key Features

- Expertly describes the latest metagenomic methodologies and best-practices, from sample collection to data analysis for taxonomic, whole shotgun metagenomic, and metatranscriptomic studies
- Includes clear-headed pointers and quick starts to direct research efforts and increase study efficacy, eschewing ponderous
- Presented topics include sample collection, quality control, third generation sequencing, analyses of shotgun metagenomic data, shotgun data, hypothesis testing, and of longitudinal data and time series to contextualize the applications

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