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## Genomics II: Bacteria, Viruses and Metabolic Pathways

By Iconcept Press

Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Genomics is the study of the genomes of organisms. The field includes intensive efforts to determine the entire DNA sequence of organisms and fine-scale genetic mapping efforts. It is a discipline in genetics that applies recombinant DNA, DNA sequencing methods, and bioinformatics to sequence, assemble, and analyze the function and structure of genomes. Genomics II - Bacteria, Viruses and Metabolic Pathways is the second volume of our Genomics series. There are totally three volumes in this series. Chapter 1 describes an analysis and statistical scoring approach for cellular assay data based on single-cell information. In Chapter 2, the concept of metabolic pathways analysis is introduced. The mathematic principle of extreme pathway and elementary flux mode are compared. Chapter 3 is dedicated to the Pathway- and Network-based analysis of the high-throughput genomic data. The author introduced Reactome FI Cytoscape plugin that can construct a network based on the list of genes of interest, cluster the constructed network, and annotate network modules based on pathways and Gene Ontology terms. Chapter 4 provides a review of microarray and RNA-seq techniques for...



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