



Genomic and Proteomic Techniques: In Post Genomics Era

By R. S. Dassanayake, Y. I. N. Silva Gunawardene

Alpha Science International Ltd. Hardback. Book Condition: new. BRAND NEW, Genomic and Proteomic Techniques: In Post Genomics Era, R. S. Dassanayake, Y. I. N. Silva Gunawardene, "Genomic And Proteomic Techniques" describes the high throughput sophisticated computational tools and experimental techniques used in post genomic analyses to harness the genomic information to make novel biological discoveries. Beginning with a chapter on Bioinformatics that introduces readers to Word Wide Web based servers and software programs that are widely used for mining genomic information it moves on to a miniaturized high throughput technique, DNA microarrays, tailored for studying genome-scale genotyping and gene-expression profiling. An overview of another high throughput proteomic technique; two-dimensional polyacrylamide gel electrophoresis used in proteome separation and mass spectrometry and protein sequencing related techniques used for characterization and identification of proteins is followed by a description of yet another miniaturized high throughput proteomic technique, Protein Microarrays, developed to overcome the limitations associated with DNA microarray and to provide direct information about protein quantity, interactions, functions etc. Knowledge-based theoretical three-dimensional protein structure modeling approach; homology modeling as a realistic method to minimize the ever widening gap between known protein coding sequences and known protein structures and fully automated Protein modeling software...

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