

Analysis of Genes and Genomes



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This beautifully illustrated textbook provides a clear guide to the tools and techniques of genetic engineering, gene cloning and molecular biology. All aspects of genetic engineering in the post-genomic era are covered, beginning with the basics of DNA structure and DNA metabolism. Using an example-driven approach, the fundamentals of creating mutations in DNA, cloning in bacteria, yeast, plants and animals are all clearly presented. Strong emphasis is placed on the latest, post-genomic technologies including DNA micro and microarrays, genome-wide two hybrid analysis, proteomics and bioinformatics. A modern post-genome era introduction to key techniques used in genetic engineering. An example driven past-to-present approach to allow the experiments of today to be placed in an historical context. The book is beautifully illustrated in full-colour throughout. Associated website including updates, additional content and illustrations.

作者介绍:

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