Bioinformatics and Functional Genomics

The bestselling introduction to bioinformatics and functional genomics provides up-to-the-minute coverage of the field

Widely received in its previous edition, this book offers the most broad-based introduction to this explosive new discipline. Now, it continues to be the go-to source for students and professionals involved in biomedical research.

The book is complemented by lavish illustrations and more than 500 figures and tables—fifty of which are entirely new to this edition. Each chapter includes a Problem Set, Pitfalls, Boxes explaining key techniques and mathematics/statistics principles, Summary, Recommended Reading, and a list of freely available software.

It serves as an excellent single-source textbook for advanced undergraduate and beginning graduate-level courses in the biological sciences and computer sciences. It is also an indispensable resource for biologists in a broad variety of disciplines who use the tools of bioinformatics and genomics to study particular research problems; bioinformaticists and computer scientists who develop computer algorithms and databases; and medical researchers and clinicians who want to understand the genomic basis of viral, bacterial, parasitic, or other diseases.

Features new to this edition include:

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