



Bioinformatics: Sequence and Genome Analysis

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As more species' genomes are sequenced, computational analysis of these data has become increasingly important. The second, entirely updated edition of this widely praised textbook provides a comprehensive and critical examination of the computational methods needed for analyzing DNA, RNA, and protein data, as well as genomes. The book has been rewritten to make it more accessible to a wider audience, including advanced undergraduate and graduate students. New features include chapter guides and explanatory information panels and glossary terms. New chapters in this second edition cover statistical analysis of sequence alignments, computer programming for bioinformatics, and data management and mining. Practically oriented problems at the ends of chapters enhance the value of the book as a teaching resource. The book also serves as an essential reference for professionals in molecular biology, pharmaceutical, and genome laboratories.

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Editorial Review

Review

This second edition is a qualified success. Every chapter in the second edition appears to be rewritten extensively, and three useful new chapters have been added. As a result, the new edition tops out at 692 pages, and many of the problems with the first edition have been rectified...

Overall, this second edition is a considerable improvement over the first and will be popular on the desks of many scientists as well as many students....If you find that you need a reference that covers the entire breadth of bioinformatics, you need to buy this book.

- DDLClinical Chemistry

The second edition of Bioinformatics: Sequence and Genome Analysis is an excellent textbook for bioinformatics introductory courses for both life sciences and computer science students, and a good reference for current problems in the field and the tools and methods employed in their solution.

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