



# Bioinformatics and Functional Genomics

By Jonathan Pevsner

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## Bioinformatics and Functional Genomics By Jonathan Pevsner

The bestselling introduction to bioinformatics and functional genomics—now in an updated edition

Widely received in its previous edition, *Bioinformatics and Functional Genomics* offers the most broad-based introduction to this explosive new discipline. Now in a thoroughly updated and expanded *Second Edition*, it continues to be the go-to source for students and professionals involved in biomedical research.

This edition provides up-to-the-minute coverage of the fields of bioinformatics and genomics. Features new to this edition include:

- Several fundamentally important proteins, such as globins, histones, insulin, and albumins, are included to better show how to apply bioinformatics tools to basic biological questions.
- A completely updated **companion web site**, which will be updated as new information becomes available - visit **[www.wiley.com/go/pevsnerbioinformatics](http://www.wiley.com/go/pevsnerbioinformatics)**
- Descriptions of genome sequencing projects spanning the tree of life.
- A stronger focus on how bioinformatics tools are used to understand human disease.

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. Readers may visit a related Web page for supplemental information at [www.wiley.com/go/pevsnerbioinformatics](http://www.wiley.com/go/pevsnerbioinformatics).

*Bioinformatics and Functional Genomics, Second Edition* 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.

**Praise for the first edition:**

*"...ideal both for biologists who want to master the application of bioinformatics to real-world problems and for computer scientists who need to understand the biological questions that motivate algorithms."* Quarterly Review of Biology

*"... an excellent textbook for graduate students and upper level undergraduate students."* Annals of Biomedical Engineering

*"...highly recommended for academic and medical libraries, and for researchers as an introduction and reference..."* E-Streams

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## Editorial Review

### Review

"...provides non-trivial tools and biological motivations to learn bioinformatics." (*Journal of Statistical Computation & Simulation*, January 2005)

"...ideal both for biologists who want to master the application of bioinformatics to real-world problems and for computer scientists who need to understand the biological questions that motivate algorithms." (*Quarterly Review of Biology*, March-May 2005)

"...this appears to be an excellent textbook for graduate students and upper level undergraduate students." (*Annals of Biomedical Engineering*, July 2004, 32, 7)

"...highly recommended for academic and medical libraries, and for researchers as an introduction and reference..." (*E-Streams*, Vol. 7, No. 4)

"...an intriguing work targeted toward biologists wanting to solve problems...provides a compendium of many biological insights and breakthroughs and will be a useful resource...highly recommended." (*Choice*, Vol. 41, No. 7, March 2004)

### Review

"I was particularly impressed by the comprehensible and comprehensive treatment of BLAST - the best that I have seen. One is guided from choosing the appropriate type of BLAST program, database and search parameters through to refining and analysing the significance of the search results--all illustrated with clear examples."

--David P. Leader, University of Glasgow

"I would not hesitate for a moment to propose Jonathan Pevsner's new book as a standard course for biologists who need a serious, practical knowledge of modern bioinformatics. Dr. Pevsner does a masterful job at presenting virtually every major topic in bioinformatics and computational genomics, from the basics of sequence analysis, to microarray data classification, accurately and at a considerable level of detail but without any complex mathematics. In addition to being an extremely useful textbook, Pevsner's book is a very nice read, due in large part, to carefully constructed questions and suggestions for discussion, and wonderful historical vignettes. In short, a great bioinformatics book for biologists!"

--Eugene V. Koonin, Ph.D., National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, Bethesda, Maryland

### From the Publisher

"I was particularly impressed by the comprehensible and comprehensive treatment of BLAST - the best that I have seen. One is guided from choosing the appropriate type of BLAST program, database and search parameters through to refining and analysing the significance of the search results--all illustrated with clear examples." (David P. Leader, University of Glasgow)

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