



Bioinformatics: A Practical Guide to the Analysis of Genes and Proteins, Second Edition

By Andreas D. Baxevanis, B. F. Francis Ouellette

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"...provides a broad overview of the basic tools for sequence analysis ... For biologists approaching this subject for the first time, it will be a very useful handbook to keep on the shelf after the first reading, close to the computer."

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"...should be in the personal library of any biologist who uses the Internet for the analysis of DNA and protein sequence data."

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"...a wonderful primer designed to navigate the novice through the intricacies of in scripto analysis ... The accomplished gene searcher will also find this book a useful addition to their library ... an excellent reference to the principles of bioinformatics."

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This new edition of the highly successful *Bioinformatics: A Practical Guide to the Analysis of Genes and Proteins* provides a sound foundation of basic concepts, with practical discussions and comparisons of both computational tools and databases relevant to biological research.

Equipping biologists with the modern tools necessary to solve practical problems in sequence data analysis, the Second Edition covers the broad spectrum of topics in bioinformatics, ranging from Internet concepts to predictive algorithms used on sequence, structure, and expression data. With chapters written by experts in

the field, this up-to-date reference thoroughly covers vital concepts and is appropriate for both the novice and the experienced practitioner. Written in clear, simple language, the book is accessible to users without an advanced mathematical or computer science background. This new edition includes:

- All new end-of-chapter Web resources, bibliographies, and problem sets
- Accompanying Web site containing the answers to the problems, as well as links to relevant Web resources
- New coverage of comparative genomics, large-scale genome analysis, sequence assembly, and expressed sequence tags
- A glossary of commonly used terms in bioinformatics and genomics

Bioinformatics: A Practical Guide to the Analysis of Genes and Proteins, Second Edition is essential reading for researchers, instructors, and students of all levels in molecular biology and bioinformatics, as well as for investigators involved in genomics, positional cloning, clinical research, and computational biology.

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Review

“...The book and the attached web links together give readers a rich resource of topics covered...” (*Statistical Methods in Medical Research*, Vol.14, No.1, 2005)

“...a good practical book and many will benefit from reading it.” (*Proteomics*, No.1 2001)

“this book...is the perfect choice for every molecular biology laboratory” (*The Quarterly Review of Biology*, Volume 77, March 2002)

Review

“A useful introduction to biologists, with a particularly strong introduction to the tools available from the NCBI.”

—Russ B. Altman, MD, PhD, Stanford University Medical Center

From the Publisher

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Patricia Watts:

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