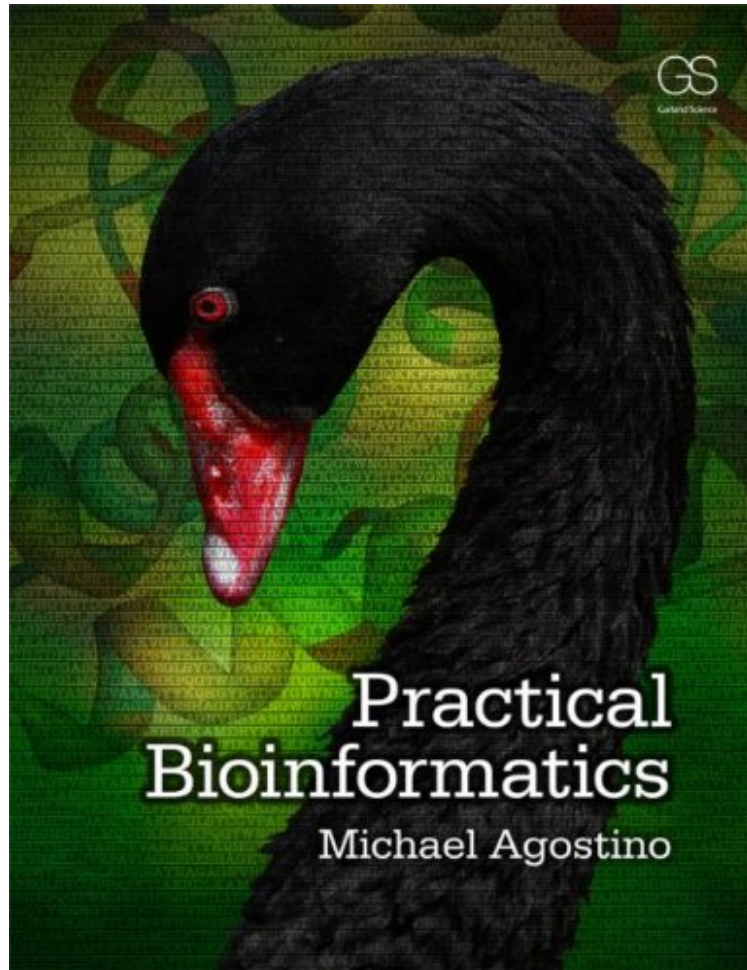


Practical Bioinformatics

Michael Agostino

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#File Name: 0815344562384 pages | File size: 47.Mb

Michael Agostino : Practical Bioinformatics before purchasing it in order to gage whether or not it would be worth my time, and all praised Practical Bioinformatics:

1 of 1 people found the following review helpful. Applied sequence analysis for non-bioinformatics majorsBy OffissaPupThis is an excellent introductory bioinformatics textbook that assumes very little prior knowledge, takes the reader by the hand, and slowly builds up an impressive knowledge base that can be directly used for real-world applications. It addresses conceptual hurdles that other introductory textbooks either neglect or not address at all. The end-of-chapter exercises are genome browser based and can be used for individual study or as part of lab exercises in the classroom. The varied topics of the exercises should be of interest to biotechnology and health sciences student alike. While designed to be a practical "how to" book, it also deepens students' understanding of fundamental molecular biology and genomics. A real gem!0 of 0 people found the following review helpful. all around greatBy Justin PowellExcellent book.made the class hassle freeThe shipper was fast!0 of 0 people found the following review

helpful. Great buyBy PalindromzI feel it is a great buy at the price...Excellent content at excellent price. Again, the delivery time was as promised.

Practical Bioinformatics is specifically designed for biology majors, with a heavy emphasis on the steps required to perform bioinformatics analysis to answer biological questions. It is written for courses that have a practical, hands-on element and contains many exercises (for example, database searches, protein analysis, data interpretation) to complement the straightforward and practical topics. The chapters are focused on DNA, RNA, and protein sequence analysisfrequently performed subsets of the field of bioinformaticstaking the reader through the commonly asked question what can I learn about this sequence? A special note to established scientists: new genomic sequences are being published at an accelerating pace. Although new technology has led to unprecedented accuracy of the sequence, incomplete and challenging assemblies along with imperfect predictive methods are still generating gene models that require verification. With the sequence analysis skills learned from this book, features such as missing exons and incorrect termini can be easily recognized and more accurate gene models can be constructed.

This is one of the most well written and well organized books on bioinformatics that I have come across. The chapters and concepts are arranged in order of complexity and the writing is easy to understand. This is an excellent introductory book for bioinformatics, yet it contains enough detail to help both a serious researcher as well as a beginner in the field. Science Books Film "This textbook would be useful to any biologist, as its chapters span RNA sequencing to protein analysis to miRNA target prediction. It is hard to think of a database currently available online on which this text does not include a detailed tutorial....it made bioinformatics appealing to learn about, as some pages contained highlighted boxes of interesting facts about the history of sequencing, biology, or various discoveries....Practical Bioinformatics will be invaluable to the general researcher or student..." -Yale Journal of Biology and Medicine "The book is well laid out, focusing initially on finding and manipulating single DNA or protein sequences from a number of different databases....Anyone who deals with biochemical data would find this work of great value. Even an absolute novice to bioinformatics would, with a little practice, be able to retrieve and manage data." -The Biologist "This is exactly the kind of text that I have been looking for to support my bioinformatics teaching To minimise the entry barrier for using bioinformatics, the author uses only free Web-based toolsThere is really good coverage of the many flavours of BLAST, multiple sequence alignments and common tools for DNA and protein sequence analysis, with clear and interesting worked examples and critical analysis of outputs." - Microbiology Today "This well-written book, replete with helpful illustrations, provides a valuable introduction to the field of bioinformatics....It also will be extremely useful for scientists whose biological training predated the Internet or for scientists in related disciplines who develop an interest in bioinformatics....This book is truly practical in that one can read it independently, performing the exercises on ones own computerWell written and easy to follow, this book provides an excellent foundation for anyone interested in the analysis of nucleotide or amino acid sequences. It is well suited for the undergraduate classroom, as well as for those scientists new to the field of bioinformatics." - Doody