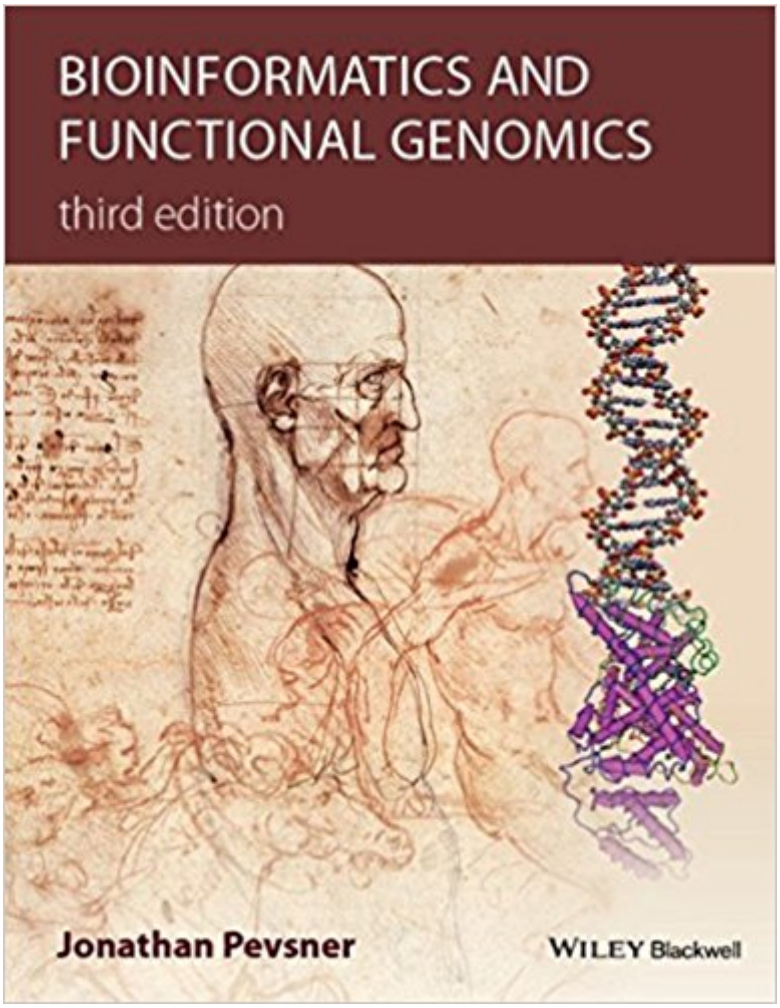
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Bioinformatics And Functional Genomics



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Synopsis

The bestselling introduction to bioinformatics and genomics Ã¢â ¬â œ now in its third editionWidely received in its previous editions, Bioinformatics and Functional Genomics offers the most broad-based introduction to this explosive new discipline. Now in a thoroughly updated and expanded third edition, it continues to be the go-to source for students and professionals involved in biomedical research.This book provides up-to-the-minute coverage of the fields of bioinformatics and genomics. Features new to this edition include: Extensive revisions and a slight reorder of chapters for a more effective organization A brand new chapter on next-generation sequencing An expanded companion website, also updated as and when new information becomes available Greater emphasis on a computational approach, with clear guidance of how software tools work and introductions to the use of command-line tools such as software for next-generation sequence analysis, the R programming language, and NCBI search utilities The book is complemented by lavish illustrations and more than 500 figures and tables - many newly-created for the third edition to enhance clarity and understanding. Each chapter includes learning objectives, a problem set, pitfalls section, boxes explaining key techniques and mathematics/statistics principles, a summary, recommended reading, and a list of freely available software. Readers may visit a related Web page for supplemental information such as PowerPoints and audiovisual files of lectures, and videocasts of how to perform many basic operations: www.wiley.com/go/pevsnerbioinformatics.Bioinformatics and Functional Genomics, Third 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.

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Customer Reviews

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Jonathan Pevsner, PhD, is a Professor in the Department of Neurology at Kennedy Krieger Institute, an internationally recognized institution dedicated to improving the lives of children with

neurodevelopmental disorders. He holds a primary faculty appointment as Professor in the Department of Psychiatry and Behavioral Sciences (Johns Hopkins University School of Medicine). He holds joint or secondary appointments in the Department of Neuroscience, the Institute of Genetic Medicine, and the Division of Health Sciences Informatics (Johns Hopkins School of Medicine), and the Department of Molecular Microbiology and Immunology (Johns Hopkins Bloomberg School of Public Health). He has taught bioinformatics courses since 2000 at the Johns Hopkins School of Medicine, and was awarded Teacher of the Year honors by the Graduate Student Association in both 2001 and 2006, the ProfessorsÃ¢â ¬â„¢ Award for Excellence in Teaching awarded by the medical faculty (2003), Teacher of the Year (Advanced Academic Programs, 2009), and Teaching Excellence Award in the Johns Hopkins Bloomberg School of Public Health (2011). In 2013 his lab used whole genome sequencing and reported a mutation that causes a rare disease, Sturge-Weber syndrome, as well as a commonly occurring port-wine stain birthmark.

I found this book difficult to read, the chapters are over 30 pages and not well organized. At times it goes into great depth on certain topics while lacking details necessary on others. It is way too wordy and dull to make it through reading. I ended up only using lecture slides for the class because I just couldn’t read this book

I have a BS in science and am studying for another BS in computer science. I purchased this textbook because I hope to become a research analyst some day.PROS:1) What one needs to know is textbook doesn’t hold back. It is written with great detail.2) A load of information (i.e. the index is impressive - to say the least).3) Price, I’ve spent $200 on organic chemistry textbooks. This well priced for the information provided. Trust me.CONS:1) It’s strength I numbered as number one for me is also it’s greatest weakness. The textbook doesn’t hold back providing diagrams / pictures of early old software of the start of this field. Giving a real depth. However, old software and early graphs were, how should we say? Bland. There is no way really around this but I could see it being a tough read for a younger student (i.e. undergrads). If you can push through this you will greatly learn from this textbook.An easy recommend.

Great reference for anyone interested in bioinformatics and genomics. Everything is given clear context and offers useful tools and methods that are (hopefully) going to remain consistent for a good number of years.

Great bioinformatic book that covers most, but not all, information.

The book is wonderful and arrived at a time when I needed it for my niece. She is so happy.

Excellent book for graduate course reference.

great overview of bioinformatics and functional genomics- practical and readable!

Impressive book. Perfect someone trying to get into bioinformatic analyses.

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