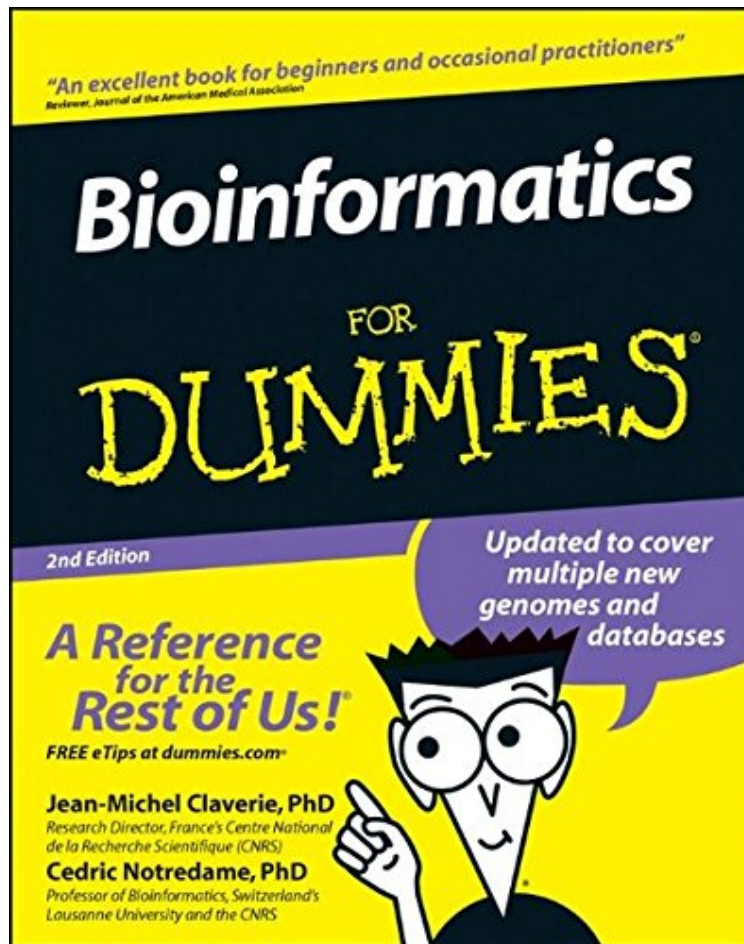


Bioinformatics For Dummies

Jean-Michel Claverie, Cedric Notredame
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#308548 in Books Jean Michel Claverie Ph D 2006-12-18 2006-12-01 Original language: English PDF # 1
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Jean-Michel Claverie, Cedric Notredame : Bioinformatics For Dummies before purchasing it in order to gauge whether or not it would be worth my time, and all praised Bioinformatics For Dummies:

1 of 1 people found the following review helpful. Hoplessly out of date By GroovyGeek
The content of the book is fine, it is an easy to read beginners introduction to the basic tools of the trade. However, the content is already hopelessly out of date. All online resources referenced in the book have had SIGNIFICANT modifications to their user interface, making the screenshots and detailed step-by-step instructions more confusing than helpful. Not sure there is a practical way around that difficulty. With a bit of understanding how these databases work and what you are actually trying to do you can figure it out.
9 of 9 people found the following review helpful. Good By Solanum
I am a couple years into a PhD in bioinformatics, but this is the book I started with. I knew some biology and some computer science, but I still found a lot of the databases, etc. confusing and the field has a decided lack of simplified documentation (though it is getting better). Of course, bioinformatics is a pretty broad topic and no book could possibly cover everything. If you do

not know any biology at all you probably should also get a basic text on genetics/molecular biology (or read them at the NCBI web site books section for free). You don't need anything in depth to read the dummies book, just at the level of an introductory biology book. Hint: DNA to RNA, RNA to Protein. And you want to know why proteins are similar because proteins with similar amino acid sequences often have similar chemical properties and therefore similar functions, so if you know what one protein does you can guess what a protein like it probably does.:-)And despite the name of the book the authors are REAL bioinformaticists (T-Coffee rocks!)3 of 3 people found the following review helpful. information on websites datedBy CustomerThere is a lot of the book related to giving you details of particular sites to go to -- to perform various tasks. And there is details on exactly the screens you will see how you should fill them out. I found a LOT of that information to be dated and incorrect.I found the information about the basic Bioinformatics tasks to be relevant and accurate, but many of the details given were not of much use, due to the reason given above.

Were you always curious about biology but were afraid to sit through long hours of dense reading? Did you like the subject when you were in high school but had other plans after you graduated? Now you can explore the human genome and analyze DNA without ever leaving your desktop! Bioinformatics For Dummies is packed with valuable information that introduces you to this exciting new discipline. This easy-to-follow guide leads you step by step through every bioinformatics task that can be done over the Internet. Forget long equations, computer-geek gibberish, and installing bulky programs that slow down your computer. You'll be amazed at all the things you can accomplish just by logging on and following these trusty directions. You get the tools you need to: Analyze all types of sequences Use all types of databases Work with DNA and protein sequences Conduct similarity searches Build a multiple sequence alignment Edit and publish alignments Visualize protein 3-D structures Construct phylogenetic trees This up-to-date second edition includes newly created and popular databases and Internet programs as well as multiple new genomes. It provides tips for using servers and places to seek resources to find out about what's going on in the bioinformatics world. Bioinformatics For Dummies will show you how to get the most out of your PC and the right Web tools so you'll be searching databases and analyzing sequences like a pro!

buy soon and read fast! (Spixiana, July 2004) "...will be of enormous practical assistance to anyone getting to grips with bioinformatics tools in the course of their research..." (Briefings in Bioinformatics, June 2003)From the Back CoverSearch databases and analyze sequences like a pro Get the most out of your PC and the Web with the right tools Explore the human genome and analyze DNA without leaving your desktop! All it takes is the basics of molecular biology and the wealth of information in this friendly guide. You'll discover the online tools and useful tips you need to ask the right questions, analyze sequences, and compare results. It's a plain-English introduction to the field! Discover how to Do biological research online Use gene-centric databases Visualize proteins in 3-D Interpret and analyze sequences Produce and publish results About the AuthorJean-Michel Claverie is Professor of Medical Bioinformatics at the School of Medicine of the Universit de la Mditerrane, and a consultant in genomics and bioinformatics. He is the founder and current head of the Structural Genomic Information Laboratory, located in Marseilles, a sunny city on the Mediterranean coast of France. Using science as a pretext to travel, Jean-Michel has held positions in Paris (France), Sherbrooke (PQ, Canada), the Salk Institute (La Jolla, CA), the Pasteur Institute (Paris), Incyte pharmaceutical (Palo Alto, CA); and the National Center for Biotechnology Information (Bethesda, MD). He has used computers in biology since the early days his Ph.D. work involved modeling biochemical reactions by programming an 8K Honeywell 516 computer right from the console switches! Although he has no clear recollection of it, he has been credited with introducing the French word bioinformatique in the late eighties, before involuntarily coining the catchy bioinformatics by mistranslating it while giving a talk in English! Jean-Michels current research interests are in microbial and structural genomics, and in the development of bioinformatic methods for the prediction of gene function. He is the author or coauthor of more than 150 scientific publications, and a member of numerous international review panels and scientific councils. In his spare time, he enjoys the relaxed pace of life in Marseilles, with his wife Chantal and their two sons, Nicholas and Raphael. Cedric Notredame is a researcher at the French National Centre for Scientific Research. Cedric has used and abused the facilities offered by science to wander around Europe. After a Ph.D. at EMBL (Heidelberg, Germany) and at the European Bioinformatics Institute (Cambridge, UK) under the supervision of Des Higgins (yes, the ClustalW guy), Cedric did a post-doc at the National Institute of Medical Research (London, UK), in the lab of Willie Taylor and under the supervision of Jaap Heringa. He then did a post-doc in Lausanne (Switzerland) with Phillip Bucher, and remained involved with the Swiss Institute of Bioinformatics for several years. Having had his share of rain, snow, and wind, Cedric has finally settled in Marseilles, where the sun and the sea are simply warmer than any other place he has lived in. Cedric dedicates most of his research to the multiple sequence alignment problem and its many applications in biology. His friends claim that his entire life (past, present, future) is somehow stuffed into the T-Coffee multiple-sequence alignment package. When he is not busy dismantling T-Coffee and brewing new sequences, Cedric enjoys life in the company of his wife, Marita.