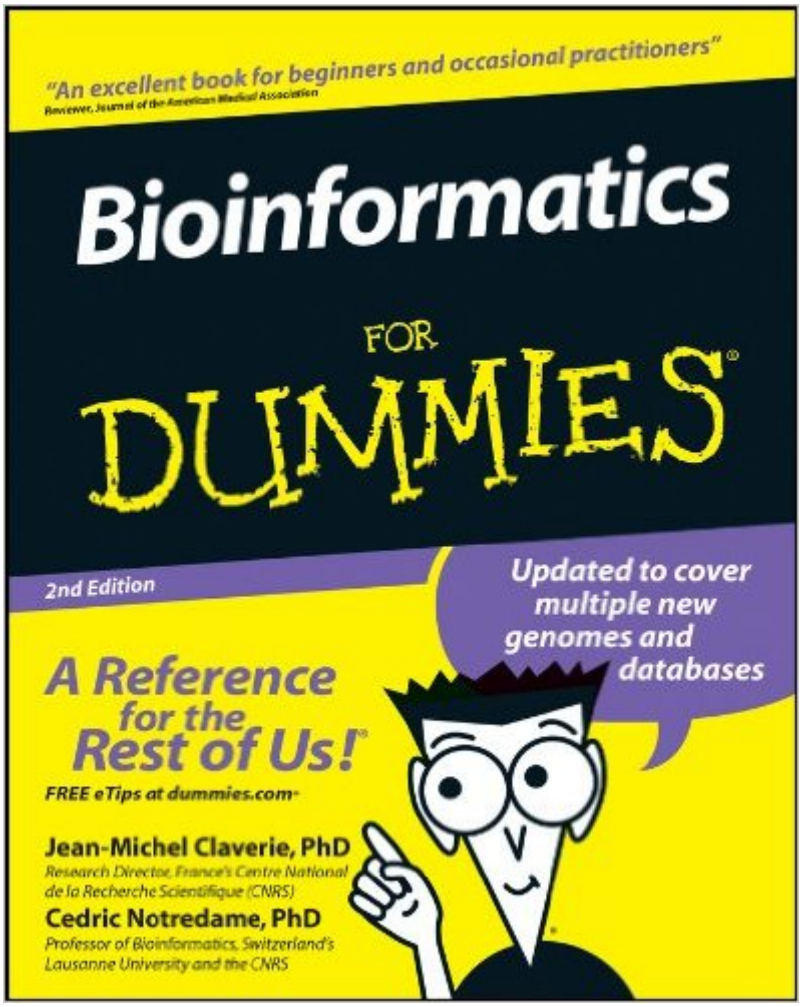
# Bioinformatics For Dummies



## Synopsis

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. Youâ ™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 whatâ ™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 youâ ™ll be searching databases and analyzing sequences like a pro!

## Book Information

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## Customer Reviews

I hold a masters degree in computer sciences (so in fact I am a biology dummy), but always had a strong interest for sciences. So I want to delve deeply into this fascinating area, but first wanted to read a book to quickly introduce me the basic concepts. With this background, I must say the book is a little bit disappointing. You can clearly see that this book is written with the biologist in mind, definitely not the computer scientist.The biological concepts are not explained very well for a biology dummy, let me explain you why :1. Some basic biological concepts are not explained. I wanted to have some more explanation on the basic concepts of how molecular and cell biology works. A lot of times, the autors tell you how to use some tool, but is not always clearly explained to me why, for what purpose they use the tool. For instance they explain how to find a list of related protein sequences, but for me it is not clear why biologists need to have such a list. And this is only one example, I could give much more simular examples...2. Remember guys, I am a dummy, so please explain me the difference between a gene and a genome before using these terms. And also, I heard about chromosomes, but why do you not explain what is it exactly ?. Also, there are a lot of explanations on how to work with RNA, but please explain me more about the functional difference between RNA and DNA.3. The explanations on how to use serveral internet tools are too wordy, they spent several pages explaining things that are so intuitively clear like "click this or that button", "use menu file, edit, copy to past your stuff to the computer clipboard"....4. A lot of complex terms are or not explained the first time they use it ("phylogenic").

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