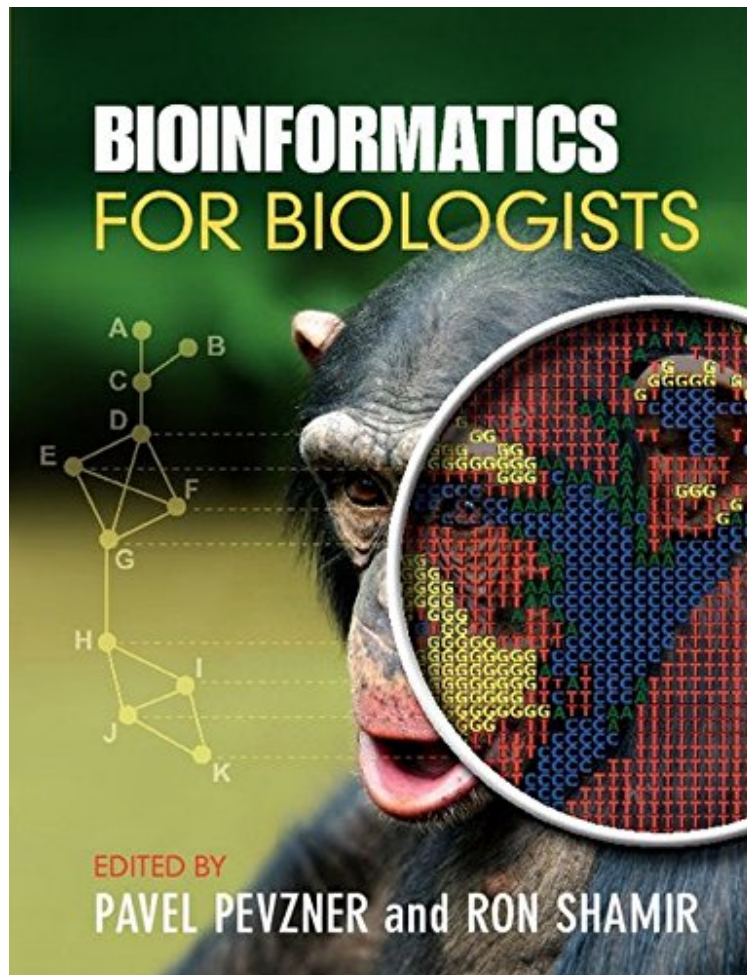


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## Bioinformatics for Biologists

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following review helpful. Not enough stars! By Graduate Researcher  
The first book that tries to uncover computational ideas behind modern bioinformatics. I see no shortage of books (or should I say manuals?) that treat me as a dummy and do not even try to explain what is under the hood of all these bioinformatics algorithms. After reading this book I finally understood how NGS fragment assemblers work and how genetic fingerprinting is done.

The computational education of biologists is changing to prepare students for facing the complex datasets of today's life science research. In this concise textbook, the authors' fresh pedagogical approaches lead biology students from first principles towards computational thinking. A team of renowned bioinformaticians take innovative routes to introduce computational ideas in the context of real biological problems. Intuitive explanations promote deep understanding, using little mathematical formalism. Self-contained chapters show how computational procedures are developed and applied to central topics in bioinformatics and genomics, such as the genetic basis of disease, genome evolution or the tree of life concept. Using bioinformatic resources requires a basic understanding of what bioinformatics is and what it can do. Rather than just presenting tools, the authors - each a leading scientist - engage the students' problem-solving skills, preparing them to meet the computational challenges of their life science careers.

Pre-Publication : "This volume contains a remarkable collection of individually-authored chapters cutting a wide swathe across the field as it is currently constituted. What is noteworthy, aside from the wide angle of the snapshot of today's bioinformatics, something the editors promise to update in future editions, is the innovative and effective pedagogical emphasis apparent throughout. The editors set out to provide a resource for teaching bioinformatics to life science undergraduates, and this is reflected in the language, organization and mathematical restraint of the different chapters... It is highly suitable as a text or reference for bioinformatics courses at the graduate level, for biologists, medical students and computer scientists. Biological naiveté in thinking and writing plagues bioinformatics, and Pevzner and Shamir's *Bioinformatics for Biologists* offers a wonderful therapy for that condition as well as an effective palliative for life science students' math phobias." Professor David Sankoff, University of Ottawa  
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"This volume represents an excellent effort towards creating an interesting and useful introductory bioinformatics text. In its current form it may benefit computational scientists more than biologists, but has the potential to evolve into an invaluable resource for all bioinformaticists, independent of their primary field of study." y Dimitris Papamichail, University of Miami for SIGACT News  
About the Author Pavel Pevzner is Ronald R. Taylor Professor of Computer Science and Director of the Bioinformatics and Systems Biology Program at the University of California, San Diego. He was named a Howard Hughes Medical Institute Professor in 2006. Ron Shamir is the Raymond and Beverly Sackler Professor of Bioinformatics and Head of the Edmond J. Safra Bioinformatics Program at Tel Aviv University. He founded the joint Life Sciences/Computer Science undergraduate degree program in Bioinformatics at Tel Aviv University.