The book was found

# Sequence Alignment: Methods, Models, Concepts, And Strategies

SEQUENCE ALIGNMENT

Methods, Models, Concepts, and Strategies

Edited by Michael S. Rosenberg
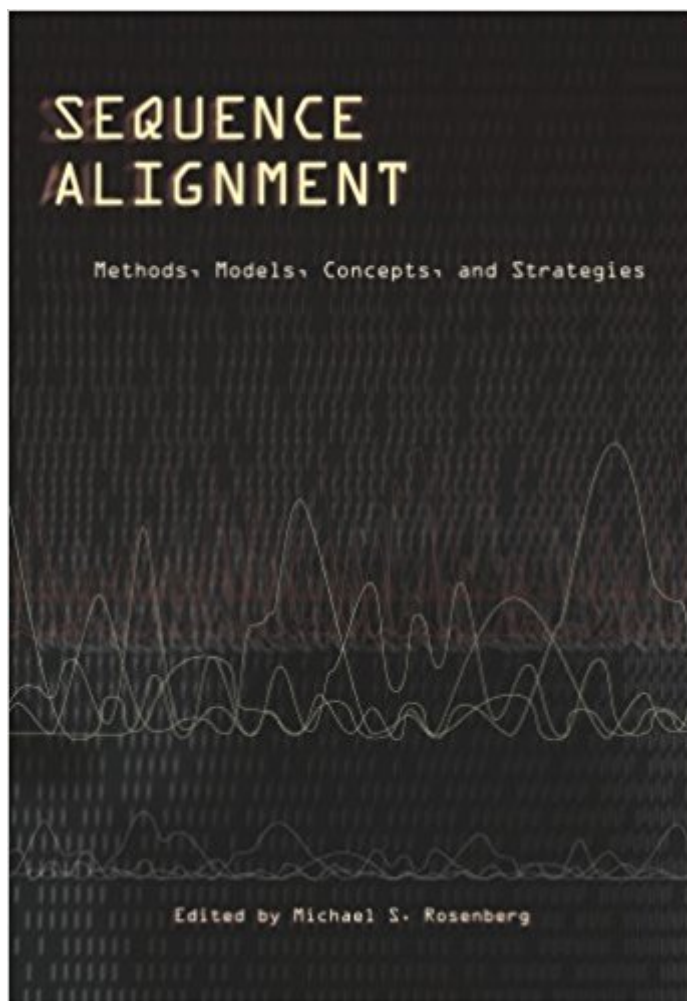
## Synopsis

The sequencing of the human genome involved thousands of scientists but used relatively few tools. Today, obtaining sequences is simpler, but aligning the sequences—making sure that sequences from one source are properly compared to those from other sources—remains a complicated but underappreciated aspect of comparative molecular biology. This volume, the first to focus on this crucial step in analyzing sequence data, is about the practice of alignment, the procedures by which alignments are established, and more importantly, how the outcomes of any alignment algorithm should be interpreted. Edited by Michael S. Rosenberg with essays by many of the field's leading experts, Sequence Alignment covers molecular causes, computational advances, approaches for assessing alignment quality, and philosophical underpinnings of the algorithms themselves.

## Book Information

Paperback: 360 pages

Publisher: University of California Press (August 22, 2011)

Language: English

ISBN-10: 0520271319

ISBN-13: 978-0520271319

Product Dimensions: 6 x 1 x 9 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 2.7 out of 5 stars 2 customer reviews

Best Sellers Rank: #720,546 in Books (See Top 100 in Books) #199 inÃ Â Books > Computers & Technology > Computer Science > Bioinformatics #912 inÃ Â Books > Engineering & Transportation > Engineering > Bioengineering > Biochemistry #3759 inÃ Â Books > Science & Math > Evolution

## Customer Reviews

"Sequence alignment represents the final frontier in the development of repeatable, comprehensive methods for phylogenetic analysis. This book will inform readers about the current status of alignment methods and will help stimulate additional work in the field."—David M. Hillis, University of Texas"Sequence Alignment provides an in-depth treatment of the prerequisite to many evolutionary analyses by presenting a diversity of opinions on the best way to align complex molecular sequence data. Topics covered include the basic algorithms used, global versus local procedures, the robustness alignment error detection, and a description of the programs now

available. Sequence Alignment is a reassuring companion, guiding the reader through a large and complicated field."&#151;John Huelsenbeck, Department of Integrative Biology, University of California, Berkeley

Michael S. Rosenberg is Associate Professor of Computational Evolutionary Biology and Bioinformatics in the School of Life Sciences and the Center for Evolutionary Functional Genomics of the Biodesign Institute at Arizona State University.

This was my 1st book in sequence analysis. At first I did not appreciate the book and gave it 3 stars. Maybe thats because I needed some introduction into the topic first. But after some time, I re-read it again, and found it pretty good and informative.

This book is written by several authors, each presenting a paper in a particular topic related to sequence alignment. When I received the book, the first thing I opened was page 142, where I found a description of how one can import RNA alignments into Microsoft Word and edit them there. There are instructions to change the colors, font, and the page size to be able to comfortably work. I couldn't believe my eyes! At least list one of the many many many tools (and procedures) far better suited for the task described in that chapter.After going over some other papers in the book, their quality varies tremendously from one to another. More than serving as a reference (as the title suggested me first), the book contains the opinions of many people.Unfortunately the first paper I opened already gave me a very negative impression, difficult to overcome.

Download to continue reading...

Sequence Alignment: Methods, Models, Concepts, and Strategies The Dark Is Rising Sequence, Book One: Over Sea, Under Stone (Dark Is Rising Sequence (Audio)) The Dark Is Rising Sequence, Book Two: The Dark Is Rising (Dark Is Rising Sequence (Audio)) Biological Sequence Analysis: Probabilistic Models of Proteins and Nucleic Acids Mouse Models of Allergic Disease: Methods and Protocols (Methods in Molecular Biology) Chirelstein's Federal Income Taxation: A Law Student's Guide to the Leading Cases and Concepts (Concepts and Insights) (Concepts and Insights Series) Sound Systems: Design and Optimization: Modern Techniques and Tools for Sound System Design and Alignment Rolfing: Reestablishing the Natural Alignment and Structural Integration of the Human Body for Vitality and Well-Being Happy Deadlifting: Tension and Alignment Shortcuts to Maximize Your Hips and Glutes for Happier Pulling (Happy Biomechanics Book 1) Your Body, Your Yoga: Learn Alignment Cues That Are Skillful, Safe, and Best Suited To You

Ideokinesis: A Creative Approach to Human Movement and Body Alignment No Try Only Do: Building A Business On Purpose, Alignment, And Accountability Transcultural Nursing Theory and Models: Application in Nursing Education, Practice, and Administration (Sager, Transcultural Nursing Theory and Models) The Healthcare Executive's Guide to Physician-Hospital Alignment Natural Posture for Pain-Free Living: The Practice of Mindful Alignment Dynamic Alignment Through Imagery - 2nd Edition How To Correct Posture: A 21 day step by step proven strategy for improving your posture (Updated with pictures): Posture improvement, Posture alignment, Posture of meditation, Posture books Dynamic Alignment Through Imagery: Second Edition Chakras: Chakras :Learning To Balance Your Chakras Made Simple (Chakra Alignment ,Chakra Healing, Chakra Balancing Book 1) Sight Alignment, Trigger Control & The Big Lie