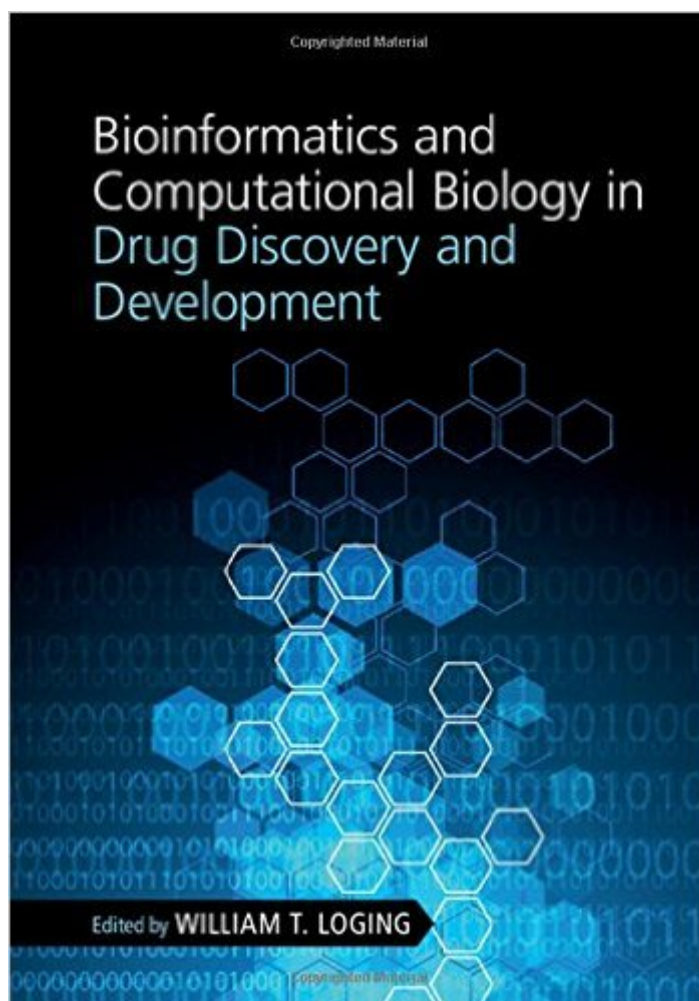


The book was found

Bioinformatics And Computational Biology In Drug Discovery And Development



Synopsis

Computational biology drives discovery through its use of high-throughput informatics approaches. This book provides a road map of the current drug development process and how computational biology approaches play a critical role across the entire drug discovery pipeline. Through the use of previously unpublished, real-life case studies the impact of a range of computational approaches are discussed at various phases of the pipeline. Additionally, a focus section provides innovative visualisation approaches, from both the drug discovery process as well as from other fields that utilise large datasets, recognising the increasing use of such technology. Serving the needs of early career and more experienced scientists, this up-to-date reference provides an essential introduction to the process and background of drug discovery, highlighting how computational researchers can contribute to that pipeline.

Book Information

Hardcover: 244 pages

Publisher: Cambridge University Press; 1 edition (April 5, 2016)

Language: English

ISBN-10: 0521768004

ISBN-13: 978-0521768009

Product Dimensions: 6.8 x 0.6 x 9.7 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars [See all reviews](#) (3 customer reviews)

Best Sellers Rank: #1,070,252 in Books (See Top 100 in Books) #251 in [Books > Computers & Technology > Computer Science > Bioinformatics](#) #329 in [Books > Engineering & Transportation > Engineering > Bioengineering > Biomedical Engineering](#) #805 in [Books > Textbooks > Medicine & Health Sciences > Medicine > Basic Sciences > Pharmacology](#)

Customer Reviews

This book brings the latest perspective on an important area of applied bioinformatics and computational biology. Academic work seems sometimes detached from real-world application. Where are all the computer-designed drugs that were promised? This book shows, however, that bioinformatics and comp bio are already part of the pharmaceutical everyday life in ways small and large, from data visualization to text mining to drug target identification. The different chapters of the book cover these contributions in detail and for anyone who is interested in learning about them.

I've worked as a computational biologist in the pharma industry for around 7 years, and I was excited to hear of the publication of this book. I think it is a great introduction to the field - especially for scientists who might be studying the subject and are interested to learn about how the drug discovery process works. The introductory chapters will help new scientists get up to date quickly with the terminology and goals of the process. I especially enjoyed the chapters on translational biomarkers by Jonathan Philips, and particularly the appendix on additional knowledge-based analysis approaches by Raul Rodriguez-Esteban, which provided one of the best overviews of text mining in pharma that I've had the pleasure of reading. The book itself is well-organized, and a relatively fast read, although going through the references on topics of interest can provide a good deal more depth. It is important to understand that it is NOT a complete "how-to" manual - you'll have to go through additional papers and training if you'd like to be a functioning computational biologist. But, for putting all these tools into context, the book does a superior job of providing a great framework.

This is a good overview of bioinformatics and computational biology as it relates to the pharmaceutical industry. The language is clear and concise, and the most important topics are covered in the drug discovery pipeline from early exploratory work to the late phase clinic and beyond. The contents of the book have clearly benefited from the authors'™ background in industry research and development. It would be extremely helpful to anyone that is contemplating entering the field for example any student soon to graduate or any bioinformatics class that would like to broaden its focus beyond purely academic exercises and embrace real-world issues faced by leaders in the industry.

[Download to continue reading...](#)

Bioinformatics and Computational Biology in Drug Discovery and Development Python for Bioinformatics (Chapman & Hall/CRC Mathematical and Computational Biology) Drug Calculations: Ratio and Proportion Problems for Clinical Practice, 9e (Drug Calculations Companion) Mosby's 2017 Nursing Drug Reference, 30e (SKIDMORE NURSING DRUG REFERENCE) Drug Information Handbook: A Clinically Relevant Resource for All Healthcare Professionals (Drug Information Handbook (Domestic Ed)) Nursing 2016 Drug Handbook (Nursing Drug Handbook) Contemporary Drug Information: An Evidence-Based Approach (Gaenelein, Contemporary Drug Information) Algorithms on Strings, Trees and Sequences: Computer Science and Computational Biology Biological Modeling and Simulation: A Survey of Practical Models, Algorithms, and Numerical Methods (Computational Molecular Biology) Computational Biology -: Unix/Linux, Data Processing

and Programming RNA-seq Data Analysis: A Practical Approach (Chapman & Hall/CRC
Mathematical and Computational Biology) Principles of Computational Cell Biology Textbook of
Drug Design and Discovery, Third Edition (Forensic Science) Discovery Kids Dinosaurs Rumble
Sound Book (Discovery 10 Button) Moo on the Farm (Discovery Kids) (Discovery 10 Button) Roar at
the Zoo Sound Book (Discovery Kids) (Discovery 10 Button) The Revolutionary War Discovery Kit
(Dover Discovery Kit) Discovery of the Americas, The (Discovery of the Americas) Ultimate
Dinosaurs Encyclopedia w/DVD (Discovery Kids) (Discovery Book + DVD) Discovery Channels
Dinosaurs & Prehistoric Predators (Discovery Channel Books)

[Dmca](#)