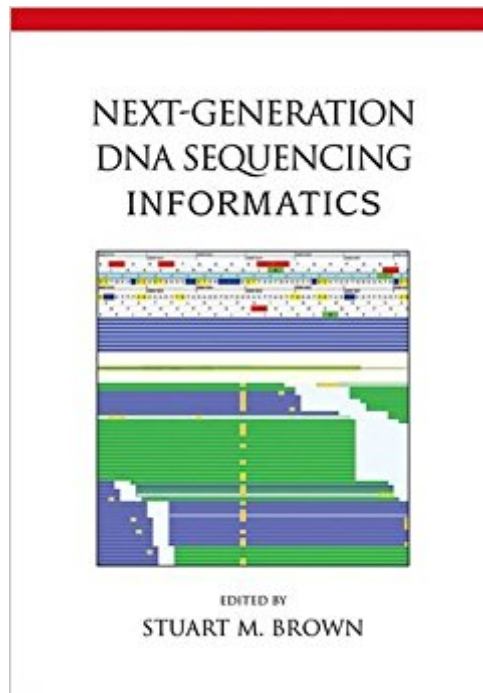




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Next-Generation DNA Sequencing Informatics



Synopsis

Next-generation DNA sequencing (NGS) technology has revolutionized biomedical research, making complete genome sequencing an affordable and frequently used tool for a wide variety of research applications. Bioinformatics methods to support DNA sequencing have become a critical bottleneck for many researchers and organizations wishing to make use of NGS technology. This book provides a thorough introduction to the necessary informatics methods and tools for operating NGS instruments and analyzing NGS data. The book also provides extensive reference to best-practice bioinformatic methods for the most commonly used NGS technologies and applications. The book also includes reference to, and guidance, on the setup and use of essential software for NGS data analysis. This is the first book of its kind to address the informatics needs of scientists who wish to take advantage of the explosion of research opportunities offered by new DNA sequencing technologies.

Book Information

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Customer Reviews

"Here researchers at New York University's Langone Medical Center provide an overview of many core types of next-generation sequencing projects, discuss methods embodied in popular software, and describe in detail their own best practice workflows. The information and advice could help both bioinformaticians implementing their own data and analysis method, and laboratories and clinical investigators planning to use next-generation sequencing methods for research." Book News Inc.

Less useful than most, publicly available reviews on of the subjects discussed. The tutorials are only links to publicly available material and most information, in my opinion, is either irrelevant or just useless for someone desiring to analyze real data. This very unfortunate, given that this is the only effort that deals with NGS analyses.

I purchased this book hoping to learn some in-depth information about NGS and specifically RNAseq. It is basically an overview of some information related to bioinformatics for NGS data, but rarely dips beneath surface level information. Perhaps it could be considered a decent overview of the variety of NGS informatics topics for those who are unfamiliar with the technology. However, this book gives little insight as to how to produce an actual real world analysis of NGS data-- you will have to go further than this book for that. I did like reading it at some points to get an overall feel for the technology, but if you are looking for in-depth details or a "how to" for analysis, you'd be best advised to find further information, perhaps on the web and through journal articles. Since the software used in the real world for NGS is advancing so quickly, some of the information in the book already seemed a little dated. Overall, if one were very new to NGS analysis and wanted an overview of related topics, this could be an OK option.

I found this book useful, however I am totally new to NGS, so I appreciated the summary overview of the technologies, platforms and methods. There is no information on actual analysis if that is what you are looking for. Additionally, this book is now two years old and in a field like this, it is already quite outdated. If you are looking for an overview of NGS and its applications, this is definitely a useful reference, for an actual detailed explanation on how to run the analysis or to run the analysis on a free, web-based platform, which includes self-help tutorials, I'd recommend:

<https://usegalaxy.org/u/aun1/p/galaxy101> (mentioned in the book) or RNA-seq Data Analysis: A Practical Approach, if your downstream application is RNAseq, as is the case for me.

very good.....Good contents, updated.basic conceptscould be smallercolor figuresshould have more information about ngs to detect variants

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