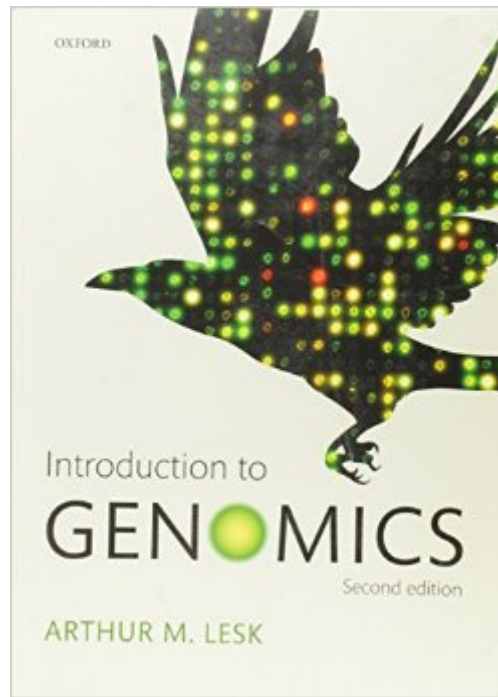


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# Introduction To Genomics



## Synopsis

Our genome is the blueprint to our existence: it encodes all the information we need to develop from a single cell into a hugely complicated functional organism. But how do we identify the genes that make up our genome? How do we determine their function? And how do different genes form the regulatory networks that direct the processes of life? Introduction to Genomics is a fascinating insight into what can be revealed from the study of genomes: how organisms differ or match; how different organisms evolved; how the genome is constructed and how it operates; and what our understanding of genome structure and function means in terms of our future health and wellbeing. Thoroughly revised and brought up to date, the second edition features:

- \* Coverage of the latest techniques and developments in the field
- \* Rich pedagogy: End-of-chapter exercises, web-based problems ("weblems"), and lab assignments; "Special Topic" boxes; engaging case studies
- new "Ethics" boxes exploring the ethical issues surrounding the study of genomics;
- highlighted key terms; and an end-of-book glossary
- \* A larger format provides greater clarity to the text and accompanying figures
- \* Five new chapters, including one dedicated to metabolomics
- \* An updated Companion Website ([www.oup.com/uk/orc/bin/9780199564354](http://www.oup.com/uk/orc/bin/9780199564354)) offering a range of resources, including figures from the book in electronic format, answers to end-of-chapter exercises, hints to end-of-chapter problems, a guided tour of web sites in genomics, and rotating figures

The field of genomics is enabling us to analyze life in more detail than ever before; and Introduction to Genomics tackles this conceptually challenging--and fascinating--subject in a clear, lucid way.

## Book Information

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## Customer Reviews

Because I do biostatistics for a living and it has been decades since my last formal biology class, I got this book to help me understand the biology of modern high-throughput genomics research. I am impressed with the writing. The author's presentation of history and the framing of ethical issues could not be better. Unfortunately for people like me the author assumes that you have a background in molecular cellular biology. Many terms are not defined or defined long after they first appear. Because the writing is excellent you can usually read through the sections with undefined terms with the help of the web but it is a slow difficult read. The index is good but there is no glossary. The web support for the book is fair (with expanded graphics and answers to some problems) but not really great. There are questions that are supposed to be answered using the web (like how the field has grown since the book was published) but the publisher does not provide hyperlinks to support those questions. With a glossary for non-biologists and better web support this would be an ideal book for everyone interested in the field. Without those features, it is still very good.

As a newcomer to the biological sciences, I found this book not to be very pedagogical. From the very beginning, it assumes too much knowledge to be really self-contained - I was forced to Google terms (like Alu, an important transposable element in the human genome) that were left undefined from almost the very first page. And it's not that the level is uniformly too high for me, as it rehashes things like the central dogma of biology that are familiar from grade school. The purpose in this age of buying a paper book is to have something self-contained enough to avoid having to go down a long bunny hole of Internet searching. I found the uneven assumed background to be disappointing. Its pages are full of colorful boxes containing relatively unhelpful summaries of the main text and over-numerous digressions. But there's enough new material in these boxes to make them necessary for understanding subsequent text, so you can't skip them. Thrashing between the text and these boxes slows me down. Many of the illustrations are non-essential photographs or poorly cropped screenshots. It suffers from many of the sins of bad K-12 textbooks, but given the harder material, it's even more painful to read. That said, it covers a lot of useful material.

The book takes the reader gently through the intricacies of genomics. It is a easy read for the computer scientist with little background in Bio-chemistry. The genetic material is always introduced and illustrated with examples before its importance in the scheme of things is explained. I highly recommend this book.

love it, good organization, nice examples, nice writing, up to date, nice illustrations (I love the cross-eyes stereo images of molecules). Wide variety of different concepts covered. Congratulation to the author. PS I am a professional in biomedical sciences, and use this book to design some of my lectures

I'm very satisfied with the shipping date and quality of book. But I my study plan has changed recently, so I don't need to rent it any more, may I return it in advance?? what about the rent fee accordingly?? Thanks you so much

It is what I was expecting of a new book.

Brand new book (in plastic seal). Small, compact book that's not as heavy as your typical textbook. Good read for beginners.

Filled with jargon. If you don't have a basic understanding of biology and genetics, this book is not for you. however, if you're forced to use it for a class- look online there's an answer key for the exercises.

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