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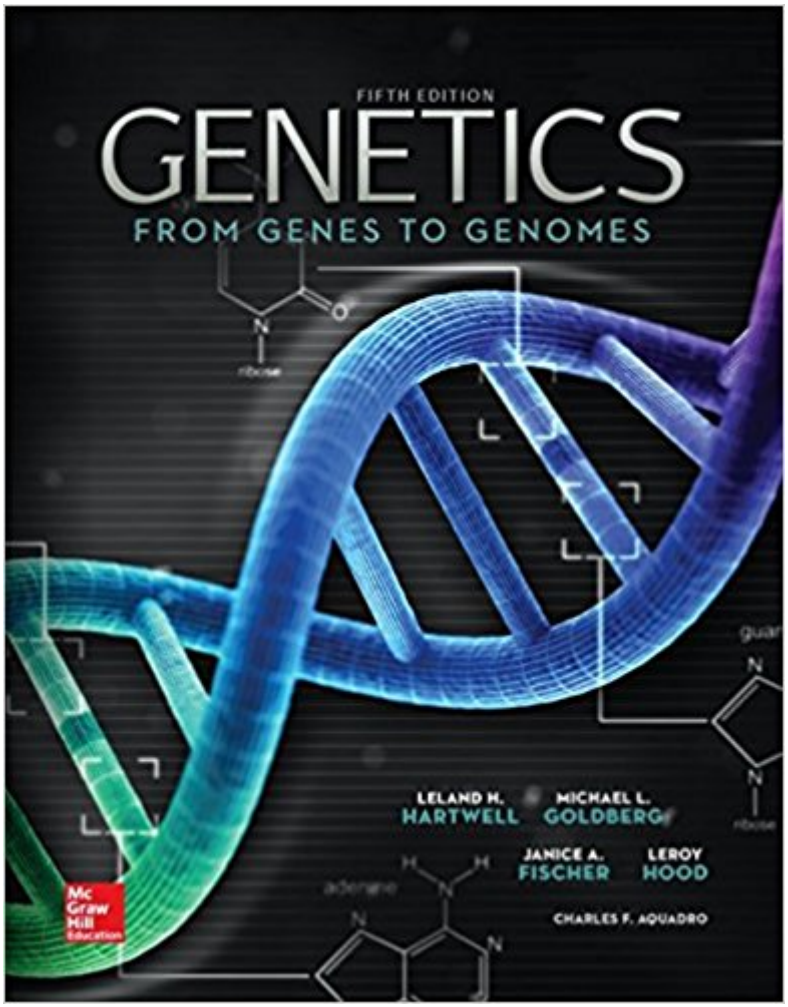
Genetics: From Genes To Genomes, 5th Edition



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Synopsis

Genetics: From Genes to Genomes is a cutting-edge, introductory genetics text authored by an unparalleled author team, including Nobel Prize winner, Leland Hartwell. The 5th edition continues to build upon the integration of Mendelian and molecular principles, providing students with the links between the early understanding of genetics and the new molecular discoveries that have changed the way the field of genetics is viewed. Users who purchase Connect Plus receive access to the full online ebook version of the textbook as well as SmartBook.

Book Information

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Customer Reviews

Compared to the previous edition of Hartwell Genetics, this version is leaps and bounds of improvement. About 3 years ago I took a course using the old edition and felt like there was a rigid change in the material from Mendelian genetics to the molecular details of the field. Practical details about lab techniques often seemed like sidenotes rather than keys to the text. Also, chapters were disjoint as they jumped from historical perspective to modern techniques. In this new edition, I can see how much the readability of the text has improved! The organized layout of chapters has a clear ebb and flow to it. Starting with a short overview of the field in chapter 1, this textbook lets students know the scope of the field of genetics before delving into the text. From evolutionary biology to clinical applications, this book is chock-full of examples that detail the practical benefits of the field. Each chapter is laid out in a clear format with great illustrations and examples. The practice questions are challenging (not impossible) and endow the student with a perspective about the greater context of the field. Each chapter prepares you for the end-of-chapter questions, but puts

the general tenants of the chapter in a variety of contexts, promoting learning. This edition does a much better job of integrating the history of Darwinian, Mendelian, molecular, and population genetics ideas (i.e. Sewall Wright) with practical techniques like pedigree analysis, PCR, gel electrophoresis, and cloning. Overall, I would say this text is a great introductory genetics text that has vastly improved from the previous edition.

This book is an enormous improvement from the previous version--it is clearer, more concise, and so much more readable. Using this book has helped me grasp everything in my genetics class much faster and with more certainty than other genetics books I've had to work with (including the fourth edition of this same book) in other biology classes. The chapter questions are really useful and have helped me feel completely prepared and on top of the material this semester.

The text was pretty good. There were times where the language was confusing but overall it was good.The only thing is that if your professor is making you buy the online homework system affiliated with this textbook, I recommend just purchasing the paper copy online. It's less than twenty dollars and you can put the chapters in your binder as you need to. And you can write all over it.I rented the textbook from . Delivery was fast and return was easy.

With intuitive figures and clearly expressed ideas, this text provides an excellent conceptual and applied foundation in introductory genetics. The book problems steadily work the readers through underlying concepts before asking them to apply their newfound intuition to legitimate, real-world scenarios. They aren't all easy, but good problems shouldn't be. Any murky moments can be readily cleared up with the solutions manual, study guide, and/or the constantly updated online support. Examples provided in the text are relevant to modern times and thought-provoking.If your professor is requiring this edition, make sure to get this one! There are 2 new chapters and a huge number of new/improved figures and problems!

Pros:- page quality is good-- same as every hard-cover textbooks.- Large texts so it's very easy to read, especially if you have to cram 2-3 chapters over 1 night.- Pictures & diagrams are life-savers. They're probably the best thing about this book. You can easily understand concepts by looking at them for just a few seconds.- book is pretty thin- my professor literally follows the book, so if I miss a lecture or space out during class, I can just read the book and be perfectly fine for testsCons:- Sometimes it gets a bit wordy. I feel like they could've worded it better for cleaner, more precised

explanations (of course, after I understood the concept)

The book was overly complicated for an introductory genetics course. I had a hard time teasing out the information that my prof actually wanted me to know. The book would be good for a more advanced class but there were too many details for an intro class. The 5th edition actually edited out some information that we were expected to know (for example, the araBAD operon and the myc/max system. Myc/max was referred to in the questions at the end of the chapter, but the information section within the chapter had been deleted). Three-quarters of the way thru the course our prof ended up sending us all a PDF of the 4th edition so we could get the info we needed. I should have just gotten the 4th edition in the first place.

I haven't purchased this book, read it, or even ever seen a copy of it. Who buys a genetics book that has DNA of the wrong handedness on the cover?

Looks seriously just as new and oh my god this saved me a ton of money

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