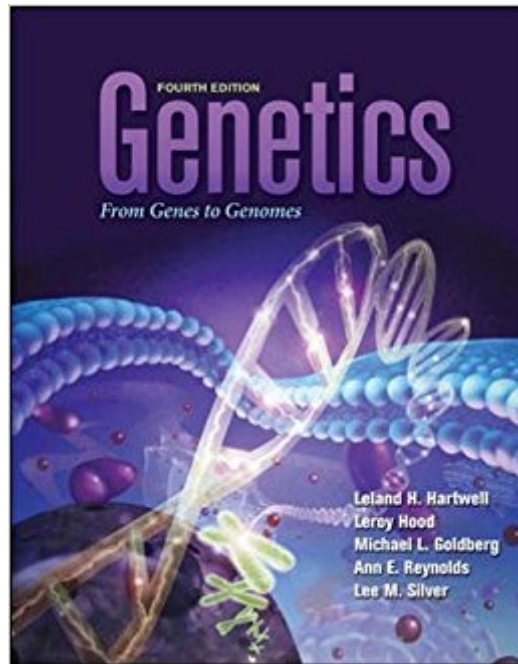


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# Genetics: From Genes To Genomes (Hartwell, Genetics)



## 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 4th 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 receive access to the full online ebook version of the textbook.

## Book Information

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## Customer Reviews

Dr. Silver is a Professor at Princeton University in the Departments of Molecular Biology, Ecology and Evolutionary Biology, and the program in Neuroscience. Dr. Silver graduated from the University of Pennsylvania with BA and MS degrees in physics, and from Harvard University with a PhD in biophysics. He was a research fellow at the Sloan-Kettering Institute for Cancer Research and a senior scientist at Cold Harbor Lab before coming to Princeton. He is the author of "Remaking Eden: Cloning and Beyond in a Brave New World." He is also the co-editor-in-chief of a new international journal entitled "Cloning: Science and Policy," and co-editor-in-chief of "Mammalian Genome," the official journal of the International Mammalian Genome society. In 1993, Dr. Silver was elected a Fellow to the AAAS. Dr. Hood received an MD from the Johns Hopkins Medical School and a PhD in Biochemistry from the California Institute of Technology. His research interests include immunology, development and the development of biological instrumentation (e.g. the protein sequencer and the

automated fluorescent DNA sequencer). His research played a key role in unraveling the mysteries of antibody diversity. Dr. Hood has taught molecular evolution, immunology, molecular biology and biochemistry. He is currently the Chairman (and founder) of the cross-disciplinary Department of Molecular Biotechnology at the University of Washington. Dr. Hood has received a variety of awards including the Albert Lasker Award for Medical Research (1987), Dickson Prize (1987), Cefas Award for Biochemistry (1989), and the Distinguished Service Award from the national Association of Teachers (1998). He is deeply involved in K-12 science education. His hobbies include running, mountain climbing, and reading.

Dr. Leland Hartwell is President and Director of the Fred Hutchinson Cancer Research Center and Professor of Genome Sciences at the University of Washington. Dr. Hartwell's primary research contributions were in identifying genes that control cell division in yeast, including those necessary for the division process as well as those necessary for the fidelity of genome reproduction. Subsequently, many of these same genes have been found to control cell division in humans and often to be the site of alteration in cancer cells. Dr. Hartwell is a member of the National Academy of Sciences and has received the Albert Lasker Basic Medical Research Award, the Gairdner Foundation International Award, the Genetics Society Medal, and the 2001 Nobel Prize in Physiology or Medicine.

Dr. Michael Goldberg is a professor at Cornell University, where he teaches introductory genetics and human genetics. He was an undergraduate at Yale University and received his Ph.D. in biochemistry from Stanford University. Dr. Goldberg performed postdoctoral research at the Biozentrum of the University of Basel (Switzerland) and at Harvard University, and he received an NIH Fogarty Senior International Fellowship for study at Imperial College (England) and fellowships from the Fondazione Cenci Bolognetti for sabbatical work at the University of Rome (Italy). His current research uses the tools of *Drosophila* genetics and the biochemical analysis of frog egg cell extracts to investigate the mechanisms that ensure proper cell cycle progression and chromosome segregation during mitosis and meiosis.

Dr. Reynolds is an educator and author who has been teaching genetics and biology since 1990. An affiliate faculty member of the Genetics Department at the University of Washington, her research has included studies of gene regulation in *E. coli*, chromosome structure and DNA replication in yeast, and chloroplast gene expression in marine algae. She is a graduate of Mount Holyoke College and received her PhD from Tufts University. Dr. Reynolds was a postdoctoral research fellow with the Harvard University Department of Molecular Biology. Dr. Reynolds was also an author and producer of the laserdisc and CD-ROM *Genetics: Fundamentals to Frontiers*.

I was looking for a good introduction to the subject of genetics and DNA. Although it's been many

years since college I have a solid background in science and some chemistry and biology. The popular books I reviewed focused more on the wonder of genetics rather than the "how and why" details so I chose this textbook based on it appearing as an often updated and widely used text. I've completed half the book and am very happy with my purchase. The text not only covers how the mechanisms of genetics work but spends a great deal of time explaining how these mechanisms were discovered, giving the reader an insight into the methods of genetics. The text appears to be a college-level introductory course and requires attentive, serious reading that rewards the reader with a clear and detailed understanding of the subject.

The book is well built and contains helpful information at a college level, while still starting new concepts as a simple level. The online sample problems (and answers) were helpful for studying for the exams and the problems in the book were useful too. (although you need the solutions manual to be able to check those answers. Arrived in a timely fashion, and in excellent condition.

I very much liked this book. It has some of the best illustrations and photomicrographs that I have ever seen in a science textbook. The organization of the book is pretty good too. I enjoyed the background material on methods and thought the length of the book was just right. More is not always better. The only minor gripe I had was that the photomicrographs are not labeled by type (i.e., SEM, TEM, Confocal, etc.). There is a huge amount of research in the genetics area that others might have stuffed into this book, but the authors wisely chose to limit their scope somewhat.

The book covers the topic thoroughly, is clear and full of illustrations that help to learn. The only flip side, at least in my opinion, is the part dedicated to the history of genetics: I found it too long, too detailed and not necessary to understand the topic. In some instances it slows down the research of information.

Pleasant shipping experience. Some damage to the book, but what should I expect? It is a rental after all. The book itself was pretty informative and provided some helpful illustrations.

Excellent reference. Explains things very well without being overly wordy and is therefore not too bulky to carry around like some textbooks.

For those looking for a broad yet deep introduction to genetics in a single book, "Genetics: From

Genes To Genomes" delivers on both accounts. Hartwell, Hood et. al. are well known authorities in the field, and you'll be hard pressed to find another textbook at this level of content value in the foreseeable future. Unfortunately, good things seldom come cheap--as you've undoubtedly noticed by the three digits to the left of the decimal point--but short of actually enrolling in molecular biology curriculum, you'll be well served by this book, and I wholly recommend it.

Great condition!

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