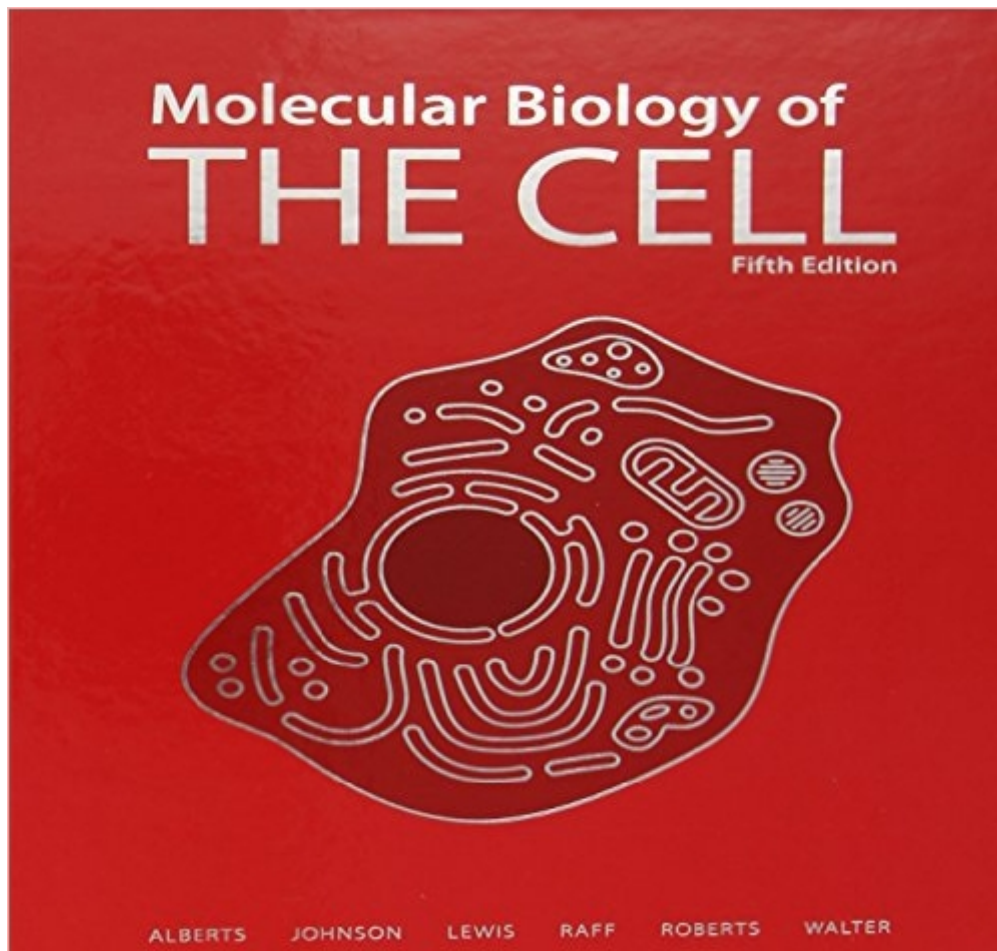The book was found

Molecular Biology Of The Cell, 5th Edition

Synopsis

For nearly a quarter century Molecular Biology of the Cell has been the leading cell biology textbook. This tradition continues with the new Fifth Edition, which has been completely revised and updated to describe our current, rapidly advancing understanding of cell biology. To list but a few examples, a large amount of new material is presented on epigenetics; stem cells; RNAi; comparative genomics; the latest cancer therapies; apoptosis (now its own separate chapter); and cell cycle control and the mechanics of M phase (now integrated into one chapter). The hallmark features of Molecular Biology of the Cell have been retained, such as its consistent and comprehensive art program, clear concept headings, and succinct section summaries. Additionally, in response to extensive feedback from readers, the Fifth Edition now includes several new features. It is now more portable. Chapters 1-20 are printed and Chapters 21-25, covering multicellular systems, are provided as Â PDF files on the free Media DVD-ROM which accompanies the book.* And for the first time, Molecular Biology of the Cell now contains end-of-chapter questions. These problems, written by John Wilson and Tim Hunt, emphasize a quantitative approach and the art of reasoning from experiments, and they will help students review and extend their knowledge derived from reading the textbook. The Media DVD-ROM, which is packaged with every copy of the book, contains PowerPointÂ® presentations with all of the figures, tables and micrographs from the text (available as JPEGs too). Also included is the Media Player, which plays over 125 moviesâ •animations, videos, and molecular modelsâ •all with voice-over narration. A new reader-friendly feature is the integration of media codes throughout the text that link directly to relevant videos and animations. The Media DVD-ROM holds the multicellular systems chapters (21-25) of the text as well. By skillfully extracting the fundamental concepts from this enormous and ever-growing field, the authors tell the story of cell biology, and thereby create a coherent framework through which readers may approach and enjoy this subject that is so central to all of biology. * There is also a reference edition of Molecular Biology of the Cell, Fifth Edition (ISBN 978-0-8153-4111-6) that contains Chapters 1-25 entirely in printed format.

Book Information

Series: Molecular Biology of the Cell

Hardcover: 1392 pages

Publisher: Garland Science; 5th edition (November 16, 2007)

Language: English

ISBN-10: 0815341059

ISBN-13: 978-0815341055

Product Dimensions: 11 x 8.7 x 1.9 inches

Shipping Weight: 6.7 pounds

Average Customer Review: 4.5 out of 5 starsÂ Â See all reviewsÂ (331 customer reviews)

Best Sellers Rank: #13,874 in Books (See Top 100 in Books)   #3 inÂ Books > Science & Math > Biological Sciences > Biology > Molecular Biology   #6 inÂ Books > Medical Books > Basic Sciences > Cell Biology   #46 inÂ Books > Textbooks > Science & Mathematics > Biology & Life Sciences > Biology

Customer Reviews

I'm an amateur biologist, and a professional computer software engineer and product reviewer. A keen interest in the mechanics of genetic expression has drawn me to the beautiful details of cellular mechanics. While this book is everything the other reviewers say (and are qualified to say) it is, let me weigh in on the accompanying CD, which is an area in which I can claim some expertise. The vast majority of CDs bundled with textbooks are afterthoughts -- either an electronic copy of the text, or some lightly related adjunct materials, usually pulled from the public domain. MBotC is different. The CD is nothing short of breathtaking. A technical tour de force, this CD runs on both Mac and Windows, which is no mean feat. It leverages time-tested technologies such as Netscape, Java, and Quicktime to produce stunningly vivid presentations. It performs well, and is rock-solid stable. Beyond flawless delivery, the content itself is brilliantly executed. This is largely original content developed for this book, and tied directly into the text chapter by chapter. You get narrated animations that show dozens of cellular processes in a way that catalyzes learning. Videos capture live microscopy showing ATP synthase rotors spinning, microtubules self-assembling, actin crawling, and mitosis mitoting. An image magnifier lets you browse photomicrographs in detail.Most astounding of all is the seamless incorporation of a molecular viewer, the Chime Java browser plugin, which directly reads and interprets Protein Data Base (PDB) files and displays the models in interactive 3D. The CD includes hundreds of PDB models, including a wonderful reference library of amino acids, nucleotimes, lipids, and sugars.

In the past few years quite a few books on molecular biology and genetics have appeared, and all of these have been exceptionally well-written. Most have been updates of previous editions, and if compared with these, the most recent editions have displayed an enthusiasm and excitement that dwarfs their earlier editions. This book, now in its fourth edition, is an example of one of these, and I

believe the reason for their increasing quality is the excitement that biologists are now feeling. This is due no doubt to the incredible strides that have been taken in biology in the last few years. Biologists are with complete justification very excited that they understand in greater detail what life is all about, and are looking forward to an even deeper understanding in the decades ahead. As a non-biologist but one deeply embedded in bioinformatics and certain areas of computational biology, this book served my need to understand in greater detail the underlying biology behind these fields. It is a beautiful book, both from an aesthetic viewpoint and because of its content. The book reads more like a story than a textbook, but the information gain when reading it is considerable, with less entropy than what might be expected from such a deep subject with myriads of terms that must be understood before moving on to others. The author's approach to the book is well-organized, with many accompanying diagrams that illustrate the complicated processes and structures that can occur in the molecular realm. In addition, helpful summaries are put at several places in the book. There are no exercises in this book but there is a workbook that one can purchase separately. Space prohibits a detailed review of such a large book, but some of the more interesting discussions in the book include: 1.

Biology: The Ultimate Self Teaching Guide - Introduction to the Wonderful World of Biology - 3rd Edition (Biology, Biology Guide, Biology For Beginners, Biology For Dummies, Biology Books) Molecular Cell Biology (Lodish, Molecular Cell Biology) Cell Biology: With STUDENT CONSULT Access, 2e (Pollard, Cell Biology, with Student Consult Online Access) Molecular Biology of the Cell, 5th Edition Molecular Biology of the Cell 5th Fifth Edition High Throughput Screening: Methods and Protocols (Methods in Molecular Biology) (Methods in Molecular Biology, 190) Karp's Cell and Molecular Biology: Concepts and Experiments, 8th Edition Cell and Molecular Biology: Concepts and Experiments, 7th Edition Cell and Molecular Biology: Concepts and Experiments Molecular Biology of the Cell: The Problems Book Cell and Molecular Biology: Concepts and Experiments 8e Binder Ready Version + WileyPLUS Learning Space Registration Card Cell and Molecular Biology, Binder Ready Version: Concepts and Experiments Molecular Cell Biology Yeast: Molecular and Cell Biology High-Yield™ Cell and Molecular Biology (High-Yield Series) Molecular Biology of the Cell 6E - The Problems Book Viral Proteinases As Targets for Chemotherapy (Current Communications in Cell and Molecular Biology) Molecular and Cell Biology For Dummies Volume 1 - Cell Biology and Genetics (Biology: the Unity & Diversity of Life) Cell Press Reviews: Cancer Therapeutics (Cell Press Reviews Series)