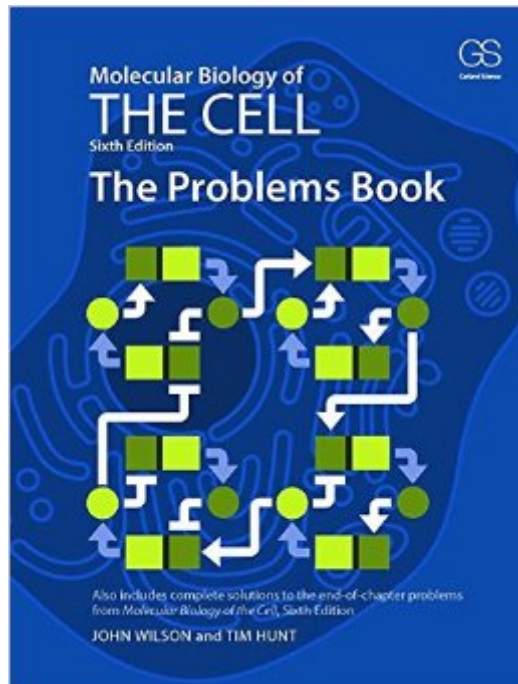


The book was found

# Molecular Biology Of The Cell 6E - The Problems Book



## Synopsis

The Problems Book helps students appreciate the ways in which experiments and simple calculations can lead to an understanding of how cells work by introducing the experimental foundation of cell and molecular biology. Each chapter reviews key terms, tests for understanding basic concepts, and poses research-based problems. The Problems Book has been designed to correspond with the first twenty chapters of Molecular Biology of the Cell, Sixth Edition.

## Book Information

Paperback: 984 pages

Publisher: Garland Science; 6 edition (November 21, 2014)

Language: English

ISBN-10: 0815344538

ISBN-13: 978-0815344537

Product Dimensions: 8.3 x 1.3 x 10.7 inches

Shipping Weight: 4.2 pounds (View shipping rates and policies)

Average Customer Review: 4.6 out of 5 stars [See all reviews](#) (17 customer reviews)

Best Sellers Rank: #63,715 in Books (See Top 100 in Books) [#29 in Books > Medical Books > Basic Sciences > Cell Biology](#) [#32 in Books > Science & Math > Biological Sciences > Biology > Molecular Biology](#) [#56 in Books > Engineering & Transportation > Engineering > Bioengineering > Biochemistry](#)

## Customer Reviews

This is the "Problems Book" that goes with the sixth edition of Molecular Biology of the Cell. Doesn't sound all that exciting does it? But actually the problems book is just as fascinating and informative as the textbook it's a companion for. And there have been enormous improvements over the previous (fifth) edition here too. I've been working my way through the new edition of MBoC and loving it, and just got around to taking a look at this new problems book and WOW. The problems typically start out with an interesting fact and then ask you a question about it that will require some creative thought. The background information provided for each question is often fascinating and goes into all sorts of areas with detail that there isn't room for in the main textbook. Here's an example question from p.6:"1-45: Giardiasis is an acute form of gastroenteritis caused by the protozoan parasite Giardia lamblia. Giardia is a fascinating eukaryote; it contains a nucleus but no mitochondria and no recognizable endoplasmic reticulum or Golgi apparatus--one of the very rare examples of such a cellular organization among eukaryotes. This organization might have arisen

because Giardia is an ancient lineage that separated from the rest of eukaryotes before mitochondria were acquired and internal membranes were developed. Or it might be a stripped-down version of a more standard eukaryote that has lost these structures because they are not necessary in the parasitic lifestyle it has adopted. How might you use nucleotide sequence comparisons to distinguish between these alternatives?

Gavin Scott wrote a review for this book too. Read it, it's very good. I disagree with Mr Scott on one point. With the Kindle edition and a PC, you can look at the question and the answer both at the same time, something you can't do with the paper edition (but I suppose book + PC is just as good as Kindle + PC). In any case, by using bookmarks I find that I can go back and forth between q and a nearly as quickly as with a paper book. I have only finished chapter 5 but I assume the rest of the book is more of the same, so I am confident that when I do finish the book, I will not have anything to add or subtract from this review. The problems in the book are split into categories: Definitions: tests your memory True/False: tests your memory plus understanding Thought Problems: By far the best part of the book. I will go into this in detail later in the review. Calculations: Numerical problems. There is a lot more hand-holding here than I am used to from reading physics books, so these problems seem easy to me. If your math background is poor, these will help shore it up, but for me, it's more like eating peanuts. Data Handling: This is the meat of science. How to connect theory and fact. Medical Links and MCAT style: These are problems of special interest to students in the health sciences. That doesn't include me except in the sense that I am interested in all things. Now about those thought problems. Any book I ever read went something like this (very contrived) example: The ATP (adenosine triphosphate) is a molecule containing three phosphates in a chain. Recall that tri- is the Greek prefix meaning three. ADP (adenosine diphosphate) has the same structure but with two phosphates (di- is the Greek prefix for two).

[Download to continue reading...](#)

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: The Problems Book Molecular Biology of the Cell 6E - The Problems Book High Throughput Screening: Methods and Protocols (Methods in Molecular Biology) (Methods in Molecular Biology, 190) Molecular Biology of the Cell, 5th Edition Cell and Molecular Biology: Concepts and Experiments Karp's Cell and Molecular Biology: Concepts and Experiments, 8th Edition 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 Biology of the Cell 5th Fifth Edition Molecular Cell Biology Yeast: Molecular and Cell Biology Cell and Molecular Biology: Concepts and Experiments, 7th Edition High-Yield<sup>®</sup>; Cell and Molecular Biology (High-Yield Series) 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)

[Dmca](#)