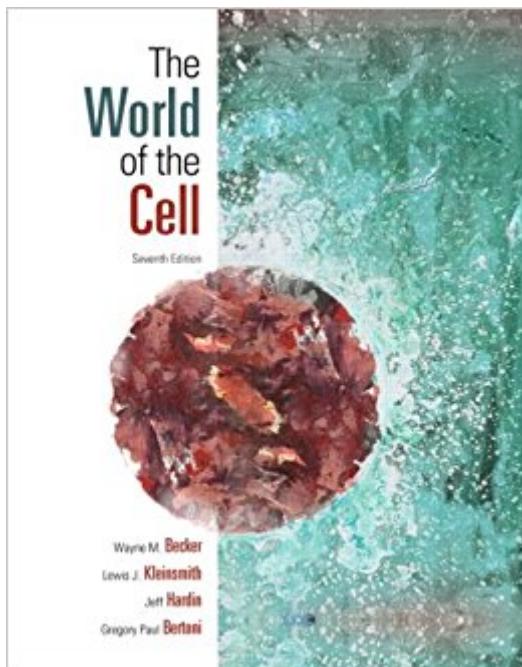


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# The World Of The Cell, 7th Edition



## Synopsis

Continuing the tradition of its widely-praised previous editions, *The World of the Cell*, 7/e, covers some of the most difficult concepts for readers—“bioinformatics, bioenergetics, metabolism, enzyme kinetics, thermodynamics, membrane transport, cell signaling, regulatory mechanisms, transcription and translation, signal transduction, and DNA replication and recombination—at the right level of depth and clarity.

**KEY TOPICS:** A Preview of the Cell, The Chemistry of the Cell, The Macromolecules of the Cell, Cells and Organelles, Bioenergetics: The Flow of Energy in the Cell, Enzymes: The Catalysts of Life, Membranes: Their Structure, Function, and Chemistry, Transport Across Membranes: Overcoming the Permeability Barrier, Chemotrophic Energy Metabolism: Glycolysis and Fermentation, Chemotrophic Energy Metabolism: Aerobic Respiration, Phototrophic Energy Metabolism: Photosynthesis, The Endomembrane System and Peroxisomes, Signal Transduction Mechanisms: I. Electrical and Synaptic Signaling in Neurons, Signal Transduction Mechanisms: II. Messengers and Receptors, Cytoskeletal Systems, Cellular Movement: Motility and Contractility, Beyond the Cell: Cell Adhesion, Cell Junctions, and Extracellular Structures, The Structural Basis of Cellular Information: DNA, Chromosomes, and the Nucleus, The Cell Cycle, DNA Replication, and Mitosis, Sexual Reproduction, Meiosis, and Genetic Recombination, Gene Expression: I. The Genetic Code and Transcription, Gene Expression: II. Protein Synthesis and Sorting, The Regulation of Gene Expression, Cancer Cells, Principles and Techniques of Microscopy.

**MARKET:** For all readers interested in molecular biology.

## Book Information

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## Customer Reviews

The cell biology text written with you in mind *The World of the Cell*, Fifth Edition, combines the most readable text and effective learning package available for a beginning course in cell biology. With its hallmark emphasis on cell biology, this book focuses on the basics of cell structure, function, and mechanisms. In this new edition, the authors integrate coverage of modern molecular techniques and recent advances in the field. Resources to help you succeed in cell biology Packaged free with every new copy of the text *The Cell Place* CD-ROM and Web site include over 30 animations and interactive activities that reinforce understanding of key concepts explained in the text. *The Cell Place* also contains a pop-up, searchable glossary, practice quizzes, and hundreds of annotated web links. The CD-ROM comes loaded with all the solutions to the end-of-chapter problems in the text - you don't have to purchase a separate solutions manual! *Guide to Microscopy*: Explore the fundamental principles of both light and electron microscopy, with an emphasis on the various specialized techniques that are used to adapt these two types of microscopy for a variety of specialized purposes. For sale separately **NEW!** *Biology Labs On-Line: Cell* Version 0-8053-4865-4 Expand your horizons beyond the traditional wet lab setting and perform potentially dangerous, lengthy, or expensive experiments in a safe electronic environment. Labs included are *HemoglobinLab*, *MitochondriaLab*, *EnzymeLab*, and *TranslationLab*. Go to [www.biologylabsonline.com](http://www.biologylabsonline.com) for more information. Printed Solutions Manual 0-8053-4856-5 A collection of complete, detailed answers for all of the end-of-chapter questions and problems written by the authors. The Benjamin Cummings Special Topics Series These brief 32-page booklets, edited by Michael Palladino of Monmouth University, present the basic scientific facts, media myths, and social and ethical issues. \**Understanding the Human Genome Project* 0-8053-6774-8 #1 \**Stem Cells & Cloning* 0-8053-4864-6 #2 \**Biology of Cancer* 0-8053-4867-0 #3 \**Biological Terrorism* 0-8053-4868-9 #4 Please visit us at [www.aw.com/bc](http://www.aw.com/bc) for more information. To order any of our products, contact our customer service department at (800) 824-7799, (201) 767-5021 outside of the U.S., or visit your campus bookstore. --This text refers to an out of print or unavailable edition of this title.

Wayne M. Becker taught cell biology at the University of Wisconsin, Madison until his recent retirement. His interest in textbook writing grew out of notes, outlines, and problem sets that he assembled for his students, culminating in *Energy and the Living Cell*, a paperback text on bioenergetics published in 1977, and *The World of the Cell*, the first edition of which appeared in 1986. He earned all his degrees at the University of Wisconsin, Madison. All three degrees are in

biochemistry, an orientation that is readily discernible in his textbooks. His research interests have been in plant molecular biology, focused specifically on the regulation of the expression of genes that encode enzymes of the photorespiratory pathway. His interests in teaching, learning, and research have taken him on sabbatical leaves at Harvard University, Edinburgh University, the University of Indonesia, the University of Puerto Rico, Canterbury University in Christchurch, New Zealand, and the Chinese University of Hong Kong. His honors include a Guggenheim Fellowship, a Chancellor's Award for Distinguished Teaching, and a Visiting Scholar Award from the Royal Society of London. Lewis J. Kleinsmith is an Arthur F. Thurnau Professor Emeritus of Molecular, Cellular, and Developmental biology at the University of Michigan, where he has served on the faculty since receiving his Ph.D. from Rockefeller University in 1968. His teaching experiences have involved courses in introductory biology, cell biology, and cancer biology, and his research interests have included studies of growth control in cancer cells, the role of protein phosphorylation in eukaryotic gene regulation, and the control of gene expression during development. Among his numerous publications, he is the author of *Principles of Cell and Molecular Biology*, first published in 1988, and several award-winning educational software programs. His honors include a Guggenheim Fellowship, the Henry Russell Award, a Michigan Distinguished Service Award, citations for outstanding teaching from the Michigan Students Association, a Thurnau Professorship, an NIH Plain Language Award, and a Best Curriculum Innovation Award from the EDUCOM Higher Education Software Awards Competition. Jeff Hardin is a Professor in the Zoology Department at the University of Wisconsin-Madison. His research interests center on how cells migrate and adhere to one another to change the shape of animal embryos. Dr. Hardin's teaching is enhanced by his extensive use of video-microscopy and his Web-based teaching materials, which are used on many campuses in the United States and other countries. As part of his interest in teaching biology, Dr. Hardin has been involved in several teaching initiatives, including being a founding member of the University of Wisconsin system-wide instructional technology initiative known as BioWeb. He is currently faculty director of the Biology Core Curriculum, a four-semester honors biology sequence for undergraduates. His teaching awards include a Lily Teaching Fellowship and a National Science Foundation Young Investigator Award. Gregory Paul Bertoni, the newest member of the author team, has been active in teaching and research for over 20 years. He earned a Ph.D. in Cellular and Molecular Biology from the University of Wisconsin-Madison, where his teaching experiences included introductory and graduate-level biochemistry, sophomore cell biology, and plant physiology. He also helped to develop a new course entitled "Ways of Knowing" • designed to introduce entering freshmen to the learning

process itself. His published research includes studies in bacterial pathogenesis, plant-microbe interactions, and plant gene expression. He is currently teaching biology and medical microbiology at Columbus State Community College in Columbus, Ohio, where he has just been nominated for a Distinguished Teaching Award. In addition, Dr. Bertoni is a freelance scientific writer who has contributed to text- and web-based projects in biology, physics, and microbiology. He is also a science editor for *The Plant Cell*, a leading research journal in plant biology and molecular biology.

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I purchased this book for my Cell Biology class. We were recommended to get the 7th or 8th edition of the textbook but being a broke college student, I ordered this one. The text in this book is very good and contains very useful information. It is the same as the 7th and 8th edition books but with slightly different wording in a few areas. The graphs in this book, however, are outdated. Many of my friends had the more updated editions which had much clearly pictures. This book is solid for the money but you may want to google better images and diagrams.

This is a moldy but a goody scenario. If you are just starin out on your biology journey this is a great book and step up from general biology, it will give you a boost on your other bio classes as well as even basic chem.

The estimated delivery date was around a 3 week period. I received mine after about 2 weeks, Fed-Ex delivered in a small box and in the condition as described. You really can't find textbooks for \$0.30 anywhere. I was thrilled to happen upon this deal, so I snagged it quickly. I had rented the same book from another company for about \$45, but returned it once I saw this steal on . College life -can- be affordable with awesome deals like this one. Thank you!

I purchased this book for my cell molec class. This book is very wordy, meaning that although there were explanations they were very confusing. I mostly had to go on khan academy to understand concepts. If I had a choice I wouldn't have bought this book

This is a very good book for basic cell biology and is a good starting point for undergraduate students. Goes into a fair amount of detail when appropriate but doesn't bog down on endless bits of information that are not relevant to the undergraduate student.

perfect

Bought this book a long time ago. It was very good and I was able to resell it after my class. Very happy with this purchase.

Good book. I needed this for school and it worked out great. Very helpful for studying. Well written textbook. Easy to understand for the college undergraduate level.

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