



## The World of the Cell, 7th Edition

By Wayne M. Becker, Lewis J. Kleinsmith, Jeff Hardin, Gregory Paul Bertoni

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

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## **Editorial Review**

### Review

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.

### About the Author

**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.

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**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.

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**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.

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**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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