

<<细胞世界>>

图书基本信息

书名：<<细胞世界>>

13位ISBN编号：9787030317629

10位ISBN编号：7030317629

出版时间：2012-1

出版时间：科学出版社

作者：（美）贝克 等著

页数：791

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### 内容概要

本书由美国威斯康星大学、密歇根大学4位教授合作编写，在世界上享有盛誉，是细胞生物学学科经典教材之一。

《细胞世界(影印版)》在亚马逊专业教材销售排行榜长期名列前茅，读者评价较高，并被许多北美、欧洲高校教学选用。

本书编写内容全面、理念先进，并具有鲜明的教学使用特色——适当的深度与简明性、艺术化教学、多层次解答问题、力求精准的概念阐述、为提高教学与学习效率而设计的诸多辅助学习内容。

第七版主要内容涵盖：生物信息、生物能、代谢、酶动力学、热力学、细胞膜、细胞信号、代谢调控、转录与翻译、信号传导、DNA复制与重组。

第七版新增了RNA干扰、新兴的分子生物技术、一些领域的前沿进展等内容。

本书适合生命科学相关专业教学选用，也可供从业人员参考使用。

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## 作者简介

作者：(美国)贝克(Wayne M. Becker) (美国)Lewis J.Kleinsmith (美国)Jeff Hardin 等

Wayne M. Becker , taught cell biology at the University of Wisconsin-Madison, for 30 years until his recent retirement. His interest in text-book 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, the Chinese University of Hong Kong, and the Charles University in Prague. His honors include a Chancellor's Award for Distinguished Teaching, Guggenheim and Fulbright Fellowships, and a Visiting Scholar Award from the Royal Society of London.

Lewis J. Kleinsmith , is an Arthur E 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 Cancer Biology* as well as 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, 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 videomicroscopy 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

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involved in several teaching initiatives. He was a founding member of the University of Wisconsin Teaching Academy and a cofounder of a 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. He is also on the editorial board of CBE: Life Sciences Education.

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