



# **Essential Cell Biology, 4th Edition**

By Bruce Alberts, Dennis Bray, Karen Hopkin, Alexander D Johnson, Julian Lewis, Martin Raff, Keith Roberts, Peter Walter



**Essential Cell Biology, 4th Edition** By Bruce Alberts, Dennis Bray, Karen Hopkin, Alexander D Johnson, Julian Lewis, Martin Raff, Keith Roberts, Peter Walter

Essential Cell Biology provides a readily accessible introduction to the central concepts of cell biology, and its lively, clear writing and exceptional illustrations make it the ideal textbook for a first course in both cell and molecular biology. The text and figures are easy-to-follow, accurate, clear, and engaging for the introductory student. Molecular detail has been kept to a minimum in order to provide the reader with a cohesive conceptual framework for the basic science that underlies our current understanding of all of biology, including the biomedical sciences.

The Fourth Edition has been thoroughly revised, and covers the latest developments in this fast-moving field, yet retains the academic level and length of the previous edition. The book is accompanied by a rich package of online student and instructor resources, including over 130 narrated movies, an expanded and updated Question Bank.

Essential Cell Biology, Fourth Edition is additionally supported by the Garland Science Learning System. This homework platform is designed to evaluate and improve student performance and allows instructors to select assignments on specific topics and review the performance of the entire class, as well as individual students, via the instructor dashboard. Students receive immediate feedback on their mastery of the topics, and will be better prepared for lectures and classroom discussions. The user-friendly system provides a convenient way to engage students while assessing progress. Performance data can be used to tailor classroom discussion, activities, and lectures to address students' needs precisely and efficiently. For more information and sample material, visit http://garlandscience.rocketmix.com/.



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Sales Rank: #25355 in Books
Brand: Brand: Garland Science
Published on: 2013-10-15
Original language: English

• Number of items: 1

• Dimensions: 11.00" h x 8.75" w x 1.25" l, 4.30 pounds

• Binding: Hardcover

• 864 pages

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## **Editorial Review**

Review

#### PRAISE FOR THE PREVIOUS EDITION

"Enthralls the reader....Core concepts are explained from first principles in a manner that is lucid and unambiguous....That the authors have assembled a seminal cell biology textbook cannot be disputed....really ought to be an intrinsic part of every bioscience undergraduate's essential reading."

#### - The Biochemist

"...the language and terminology used by the authors remain focused at a level appropriate to and accessible by undergraduate students....New users of the textbook will find it accessible and approachable....The instructor resources remain a valuable addition....I highly recommend it to all."

# - CBE-Life Sciences Education

"This attractive, accessible, visually oriented text covers the fundamentals of cell biology required to understand biomedical and broader issues that affect students' lives."

#### - SciTech Book News

"Essential Cell Biology, fourth edition, provides an up-to-date introduction to the fundamental concepts of cell biology as well as rapidly growing fields such as stem cell biology, development, and cancer....This book is ideal for students taking an introductory cell or molecular biology course, yet is also suitable for individuals looking to simply refresh their understanding of some of the basics of cell biology....Students will gain a broad understanding of biological processes from the latest edition of Essential Cell Biology, which will also help them as they advance to more specialized topics of biology and biomedical research." –Yale Journal of Biology and Medicine

#### About the Author

Bruce Alberts received his PhD from Harvard University and is Professor of Biochemistry and Biophysics at the University of California, San Francisco. He is the editor-in-chief of Science magazine. For 12 years he served as President of the U.S. National Academy of Sciences (1993-2005).

Dennis Bray received his PhD from Massachusetts Institute of Technology and is currently an active emeritus professor at University of Cambridge. In 2006 he was awarded the Microsoft European Science Award.

Karen Hopkin received her PhD in biochemistry from the Albert Einstein College of Medicine and is a science writer in Somerville, Massachusetts. She is a regular columnist for *The Scientist* and a contributor to *Scientific American's* daily podcast, "60-Second Science."

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Peter Walter received his PhD from The Rockefeller University in New York and is a Professor in the Department of Biochemistry and Biophysics at the University of California, San Francisco, and an Investigator of the Howard Hughes Medical Institute.

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