



## Molecular Biology of the Cell, 5th Edition

By Bruce Alberts, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts, Peter Walter



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**Molecular Biology of the Cell, 5th Edition** By Bruce Alberts, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts, Peter Walter

For nearly a quarter century *Molecular Biology of the Cell* has been the leading cell biology textbook. This tradition continues with the new Fifth Edition, which has been completely revised and updated to describe our current, rapidly advancing understanding of cell biology. To list but a few examples, a large amount of new material is presented on epigenetics; stem cells; RNAi; comparative genomics; the latest cancer therapies; apoptosis (now its own separate chapter); and cell cycle control and the mechanics of M phase (now integrated into one chapter).

The hallmark features of *Molecular Biology of the Cell* have been retained, such as its consistent and comprehensive art program, clear concept headings, and succinct section summaries. Additionally, in response to extensive feedback from readers, the Fifth Edition now includes several new features.

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By skillfully extracting the fundamental concepts from this enormous and ever-growing field, the authors tell the story of cell biology, and thereby create a coherent framework through which readers may approach and enjoy this subject that is so central to all of biology.

\* There is also a reference edition of *Molecular Biology of the Cell*, Fifth Edition

(ISBN 978-0-8153-4111-6) that contains Chapters 1-25 entirely in printed format.

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### Review

"Throughout the book, emphasis is placed not just on what 'we know' but also on 'how we know' and 'what remains to be discovered'- important for engaging and enthusing students....A quarter of a century after the first edition revolutionised cell biology textbooks, the new edition is as fresh, comprehensive and above all, as readable as ever....Like its predecessors, this is a superb textbook for advanced undergraduate and postgraduate students."

-British Society for Developmental Biology Newsletter, Summer 2008, Vol. 29, No. 1

"Professors, lecturers, and instructors will find the fifth edition of the book *Molecular Biology of the Cell* and its accompanying *Problems Book* to be an excellent choice for guiding their students through the maze of the cell's molecular structures and biochemical processes....With countless colorful illustrations and a large number of photographs and tables, reading the text becomes not only an educational experience, but also a highly enjoyable one for those students who wish to discover the inner workings of the magnificent cellular machine....Educators will also find the DVD-ROM to be a rich electronic resource when compiling their lectures....No less important is the *Problems Book*, which contains numerous exercises and questions that are an integral part of the learning process, and that teachers, instructors, and students are sure to appreciate."

The Quarterly Review of Biology, September 2008, Volume 83, Number 3

"It has been 25 years since the first edition of Molecular Biology of the Cell (MBoC) was published, which means that roughly half of today's practicing scientists do not remember life without this cell biology 'bible'. The other half might recall how the book almost instantly filled a void with refreshingly clear and engaging writing illustrated with extensive diagrams and figures....MBoC has only improved over its several editions, growing with the rapid advances in the field to become an essential resource for students at all levels and a trusted first stop for researchers transitioning into unfamiliar areas of cell biology....An enduring strength of the book is that it remains a comprehensive textbook....In addition to the comprehensive updating of every chapter, another reason to consider acquiring edition five is the improved integration of the print volume with an extensive array of videos and animations in the 'Cell Biology Interactive' provided on the accompanying DVD....Another welcome improvement in MBoC5 helps link the textbook to the lab - there are now problems printed at the ends of the first 20 chapters. Whereas some are designed to facilitate information retention, the best problems stimulate thought and challenge the reader to think about experimental approaches for learning new things about cell biology....the MBoC5 package is a fantastic resource and well worth the upgrade."

-Development (Company of Biologists) 135, 3973-3974 (2008)

"[*Molecular Biology of the Cell*] is a marvelous textbook. Once again, the authors are to be congratulated on a superb achievement. We are amazed at the scope and depth of information provided."

- Bioscience Education

## 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. For 12 years, he served as President of the U.S. National Academy of Sciences (1993-2005).

**Alexander Johnson** received his PhD from Harvard University and is Professor of Microbiology and Immunology and Director of the Biochemistry, Cell Biology, Genetics, and Developmental Biology Graduate Program at the University of California, San Francisco.

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