



Principles of Biochemistry (4th Edition)

By Robert A Horton, Laurence A. Moran, Gray Scrimgeour, Marc Perry, David Rawn



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- Sales Rank: #667102 in Books
- Published on: 2005-07-09
- Original language: English
- Number of items: 1
- Dimensions: 11.20" h x 1.30" w x 8.80" l, 4.34 pounds
- Binding: Hardcover
- 896 pages

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Editorial Review

From the Publisher

A concise, introductory text that fills the gap between the standard encyclopedic volumes and the cursory overview texts. Widely praised in its previous edition for its accuracy, currency and clarity of exposition, the new edition has been thoroughly updated and revised to reflect recent changes in this dynamic discipline.

From the Back Cover

This accurate and up-to-date book focuses on the basic principles of Biochemistry, with carefully selected examples of each. The areas of greatest change since the second edition are lipid metabolism, oxidative phosphorylation, and protein metabolism. Includes stereo views of many macromolecules; computer supplement; a section on molecular evolution; protein structures; molecular evolution; and developments in the area of gene expression, including the structure of RNA polymerase, the structure of the ribosome, genome organization, repair mechanisms, regulation of transcription and translation, and the structure and evolution of aminoacyl-tRNA synthetases. For readers interested in Biochemistry.

About the Author

H. Robert Horton. Dr. Horton, who received his Ph.D from the University of Missouri in 1962, is William Neal Reynolds Professor Emeritus and Alumni Distinguished Professor Emeritus in the Department of Biochemistry at North Carolina State University, where he served on the faculty for over 30 years. Most of Professor Horton's research was in protein and enzyme mechanisms.

Laurence A. Moran. After earning his Ph.D from Princeton University in 1974, Professor Moran spent four years at the Universite de Geneve in Switzerland. He has been a member of the Department of Biochemistry at the University of Toronto since 1978, specializing in molecular biology and molecular evolution. His research findings on heat-shock genes have been published in many scholarly journals.

Raymond S. Ochs. Professor Ochs, who earned his Ph.D from Indiana University, is a Professor in the Department of Pharmaceutical Sciences at St. John's University. He is an expert on metabolic regulation and has edited a monograph on this topic—Ochs, R. S., Hanson, R. W., and Hall, J., eds. *Metabolic Regulation* (1985, Elsevier)—and authored and coauthored numerous research papers and reports.

J. David Rawn. Professor Rawn, who received his Ph.D from Ohio State University in 1971, has taught and done research in the Department of Chemistry at Towson State University for the past 25 years. He did not write chapters for *Principles of Biochemistry*, but his textbook *Biochemistry* (1989, Neil Patterson) served as a source of information and ideas concerning content and organization and the use of stereo images to illuminate molecular structures and conformational change.

K. Gray Scrimgeour. Professor Scrimgeour received his doctorate from the University of Washington in 1961 and has been a faculty member at the University of Toronto since 1967. He is the author of *The Chemistry and Control of Enzymatic Reactions* (1977, Academic Press), and his work on enzymatic systems has been published in more than 50 professional journal articles during the past 40 years. From 1984-1992, he was editor of the journal *Biochemistry and Cell Biology*.

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