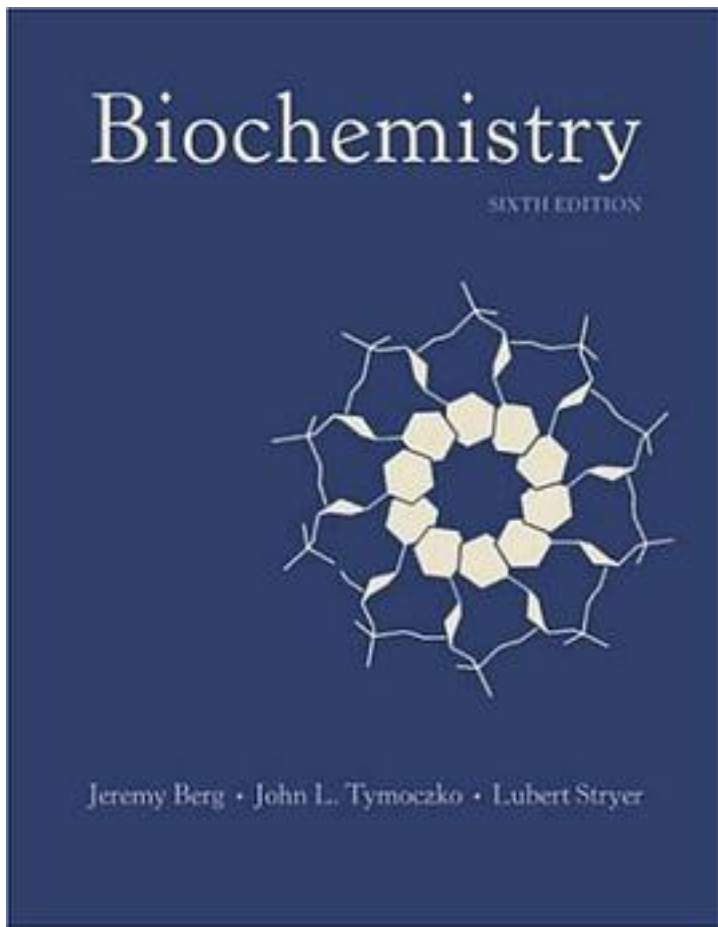


Biochemistry (Biochemistry (Berg))



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著者:John L. Tymoczko

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This is a superb book to understand the excitement of biochemistry and to understand its relevance to human health. Stryer's book presents biochemistry in a completely different manner. Unlike traditional textbooks, it presents each chapter giving a

representative molecule or system for explanation and characterization of the material in that chapter. For example, haemoglobin and myoglobin are illustrated for explaining the three dimensional structure of proteins, lysozyme and chymotrypsin for explaining enzyme action, and a host of others. Each example is critically chosen, considering its role and function in life and metabolism. This makes the matter very interesting and practical. In parallel with these examples are descriptions of diseases and biochemical disorders as well as historical perspectives. Key points are italicized and help the reader to concisely and quickly summarise the material. The last part, molecular physiology, gives a lucid exposition of the fundamental biochemical processes in living organisms. In fact, the whole point of view in the book is a physiological one and the book does an outstanding job of presenting biochemistry in the context of human health and medicine. The book also has a generous dose of drawings of proteins, molecules and nucleic acids which makes it easy to visualize the material presented. The book is unlike Lehninger, which is essentially a traditional textbook. Even though Lehninger is great as an introductory book, Stryer is, in my opinion, the book to read if you want to learn biochemistry as a discipline which should be viewed as an exciting excursion into human metabolism and life.

作者介绍:

Jeremy M. Berg received his B.S. and M.S. degrees in Chemistry from Stanford (where he did research with Keith Hodgson and Lubert Stryer) and his Ph.D. in chemistry from Harvard with Richard Holm. He then completed a postdoctoral fellowship with Carl Pabo in Biophysics at Johns Hopkins University School of Medicine. He was an Assistant Professor in the Department of Chemistry at Johns Hopkins from 1986 to 1990. He then moved to Johns Hopkins University School of Medicine as Professor and Director of the Department of Biophysics and Biophysical Chemistry, where he remained until 2003. In 2003, he became the Director of the National Institute of General Medical Sciences at the National Institutes of Health. He is recipient of the American Chemical Society Award in Pure Chemistry (1994), the Eli Lilly Award for Fundamental Research in Biological Chemistry (1995), the Maryland Outstanding Young Scientist of the Year (1995), and the Harrison Howe Award (1997). While at Johns Hopkins, he received the W. Barry Wood Teaching Award (selected by medical students as award recipient), the Graduate Student Teaching Award, and the Professor's Teaching Award for the Preclinical Sciences. He is coauthor, with Stephen Lippard, of the textbook Principles of Bioinorganic Chemistry.

Lubert Stryer is Winzer Professor of Cell Biology, Emeritus, in the School of Medicine and Professor of Neurobiology, Emeritus, at Stanford University, where he has been on the faculty since 1976. He received his M.D. from Harvard Medical School. Professor Stryer has received many awards for his research on the interplay of light and life, including the Eli Lilly Award for Fundamental Research in Biological Chemistry and the Distinguished Inventors Award of the Intellectual Property Owners' Association. He was elected to the National Academy of Sciences in 1984. He currently chairs the Scientific Advisory Boards of two biotechnology companies - Affymax, Inc., and Senomyx, Inc. - and serves on the Board of the McKnight Endowment Fund for Neuroscience. The publication of his first edition of Biochemistry in 1975 transformed the teaching of biochemistry.

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