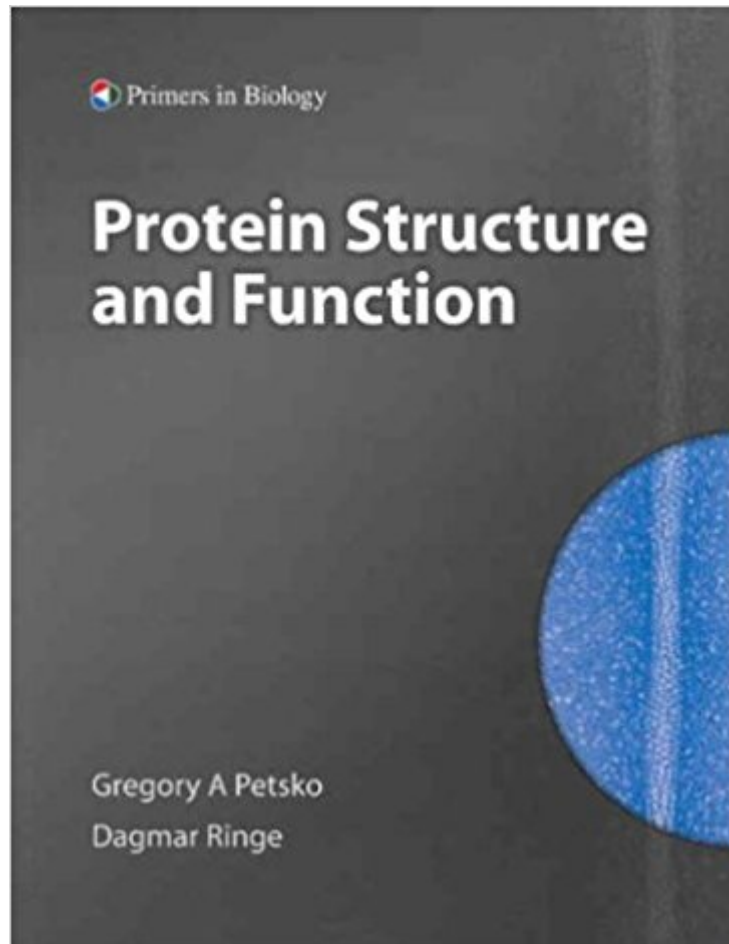




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Protein Structure And Function



Synopsis

Published by New Science Press and distributed in the U.S. and Canada by Oxford University Press. This text introduces general principles of protein structure, folding, and function, then goes beyond these basics to tackle the conceptual basis of inferring structure and function from genomic sequence. It is the first book in a series, *Primers in Biology*, employing a modular design in which chapters are divided into topics, each occupying one two-page spread that includes the relevant text, illustrations (in full color), definitions, and references. The book has five chapters. The first is an introduction to the principles of protein structure and folding, with emphasis on proteins' biophysical properties. The second describes the principles of the main biochemical functions of proteins, namely binding and catalysis, with a short section on the properties of structural proteins. Chapter 3 covers the regulation of protein function, containing concise descriptions of all the regulatory mechanisms that operate on proteins, from pH to phosphorylation, with several sections on protein switches based on nucleotide hydrolysis. Chapter 4 introduces the principles whereby structure and function are deduced from sequence, with illustrative examples. The final chapter addresses how data on protein structure is gathered, interpreted, and presented. Written for upper-level undergraduates and beginning graduate students, *Protein Structure and Function* is also useful for working scientists needing an up-to-date introduction to the field.

Book Information

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Customer Reviews

"I have not encountered a book better than this one for students interested in learning more about

structure-function relationships in proteins." --B. Williams, Choice

Gregory A. Petsko studied chemistry and classics as an undergraduate at Princeton University before going to Oxford as a Rhodes scholar to work for his Ph.D. with David Phillips. He then pursued his interest in the mechanism of enzyme catalysis at the Massachusetts Institute of Technology, where he taught courses in chemistry and detective fiction. Currently the Director of the Rosenstiel Center at Brandeis, he has extended his research interests to include the use of yeast genetics to study the unfolded protein response pathway, and the mechanism of action of the ABC transporter proteins. Dagmar Ringe graduated in chemistry from Barnard College, Columbia, and took her Ph.D. in bioorganic chemistry from Boston University. She then pursued her research interest in the study of enzyme catalysis by X-ray crystallography at the Massachusetts Institute of Technology before moving to Brandeis, where she is Professor of Biochemistry and Chemistry. The principal focus of Dr. Ringe's research is structure-function relationships in enzymes of particular industrial and pharmaceutical importance.

This is a good reference that is written in a less dry style than most textbooks, which appears to happen once you get to graduate level textbooks. It is a good book for biochemists and those who use biochemistry; I read this book to develop an understanding of my techniques involving antibodies and target proteins. I recommend skimming through a copy before you buy, to determine if you will benefit from it (it may be too specialized for some, and some chemistry background is very helpful).

Generally, the book is excellent and the information is condensed in a simple language which can be understood easily. I also liked the proteins cartoons, the protein data bank number, fantastic! In additions, the book have links, words or terms defination and further references which proves to be helpful.

Excellent selection and interpretations!

I bought this for my brother, the quality and speed of the product was awesome, however, I can't tell if the book was well written easy to understand and stuff like that :-S

every single biochemistry students should read it!

I've gotten more out of the first 50 pages of this book than many other biochemistry books--which have, in my experience, emphasized details over concepts. This book is great for those who'd like to learn and understand the fundamentals of protein science. It is exactly what it says it is; nothing more, nothing less--and it's wonderful.

The book is way too brief to cover much detail. Additionally, the book's binding is too flimsy to stand more than a couple weeks of use. While this book does provide some decent references, I would recommend readers find a decent general biochemistry text, such as Voet and Voet or Lehninger. These books will introduce the material more clearly and with more detail than this text.

It is great! Concise, to the point, with good illustrations, teaches you the essentials of protein structure and function in little time.

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