



# Macromolecules: Structure and Function (Foundations of Modern Biochemistry)

Wold, F.

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# Macromolecules Structure And Function Foundations Of Modern Biochemistry Series

**Federation of American Societies for  
Experimental Biology**



## **Macromolecules Structure And Function Foundations Of Modern Biochemistry Series:**

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*Third Series* Library of Congress. Copyright Office,1973

**Macromolecules** Finn Wold,1971 In this book we discuss the status of the structure function analysis of biological macromolecules and macromolecular complexes The ultimate goal of the analysis must be to explain all the functional properties of the molecules in question in terms of their completely defined three dimensional structure and the analysis thus contains three separate components the determination of structure the determination and quantitation of function and final correlation of this information into the structure function model The first component the structural analysis is reviewed only briefly and this book therefore leans heavily on Barker's and Van Holde's books in this series for proper background and documentation for this component The second component the analysis of functional properties is given broader consideration Chapters 1 2 5 and 9 but the main emphasis has been the step by step development of the structure function models It is hoped that this approach will clearly illustrate the typical progression of scientific model building from the first clear definition of the problem and the statement of the hypothesis through ever increasing refinements of experimental tests toward the final answer It is also hoped that the statements of philosophy principles and scientific method that are the bases for this approach are of broad enough validity to survive even after its models have become obsolete With this approach it is essential to inform the reader in unequivocal terms that this book is not a summary of final conclusions and complete stories which can be submitted to memory Each system discussed should be considered very critically and the models should be evaluated in terms of the available evidence The only facts are the experimental data the interpretation of this data into models is only convincing to the extent that it makes logical sense to the individual examining it Since both space and common sense prohibits a continuous reiteration of this statement throughout the book be prepared to encounter some models and hypotheses which are based on sound experimental evidence as well as some which have no experimental basis at all In neither case are they facts but in either case they represent ideas which can be subjected to further experimental tests If the book helps to sharpen this critical evaluation of both ideas and the experimental test of the hypotheses one of its major purposes has been fulfilled *Introduction to Proteins and Protein Engineering* Barry Robson,Jean Garnier,1988 The desire to understand protein structure has been given new impetus by the explosive growth of biotechnology and the important role of proteins natural and modified in this technology Protein molecules are machines and protein engineering is opening up a whole new world of machinery on the molecular scale This work is a simple but in many ways detailed introduction to current knowledge techniques and applications The volume is essentially in two parts the first half covering a basic introduction to proteins appropriate at the undergraduate and early postgraduate level which will prove a valuable teaching aid The second half is a more advanced

guide to concepts and methods covering a range of aspects not previously collected in one volume It will serve as a background reader and guide for advanced research study **Books in Series** ,1980 **Experimental Techniques in Biochemistry** John Michael Brewer,Amadeo J. Pesce,Raymond Bernard Ashworth,1974 Federation Proceedings Federation of American Societies for Experimental Biology,1974 *Physical Biochemistry* Kensal Edward Van Van Holde,1971

**An Introduction to Biochemical Reaction Mechanisms** James N. Lowe,Lloyd L. Ingraham,1974 **Organic Chemistry of Biological Compounds** Robert Barker,1971 The science of biochemistry seeks to answer these three basic questions What is the nature of the molecules and structures found in living cells What is the biological function of these molecules and structures How are they synthesized and broken down in the cell This book deals with the first question related to the qualitative and quantitative characterization of the biochemical world and to the methods available for structural analysis Kniga Dli[a] Chtenii[a] Tat'i[a]na Nikolaevna Mal'chevskai[a],1980 *American Book Publishing Record* ,1987 *Library of Congress Catalogs* Library of Congress,1976 **Philosophical Problems of Modern Biology** Jan Kamaryt,1965 **The Publishers' Trade List Annual** ,1981 Library of Congress Catalog Library of Congress,1972 Beginning with 1953 entries for Motion pictures and filmstrips Music and phonorecords form separate parts of the Library of Congress catalogue Entries for Maps and atlases were issued separately 1953 1955 **UCSF General Catalog** University of California, San Francisco,1972 **Biochemical Endocrinology of the Vertebrates** Earl Frieden,Harry Lipner,1971

**Food Protein Chemistry** Joe Regenstein,2012-12-02 Food Protein Chemistry An Introduction for Food Scientists discusses food proteins and how they are studied Proteins are both biological entities and physicochemical compounds and they will be examined in both contexts in this volume The chemical and physical properties of proteins will be viewed from the perspective of chemists despite the fact that their use in the food supply emphasizes their biological nature Key topics discussed include proteins as essential to life amino acids protein classification selected proteins of the most important food systems and protein structure The book also includes chapters on protein measurement protein purification and spectral techniques for the study of proteins The book requires readers to have the equivalent of the Institute of Food Technologists requirements for undergraduate food science majors It also assumes a knowledge of math through calculus While primarily intended for senior and first year graduate food science students the text may also be useful to researchers in allied fields

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