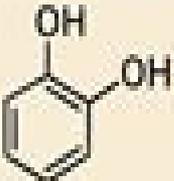
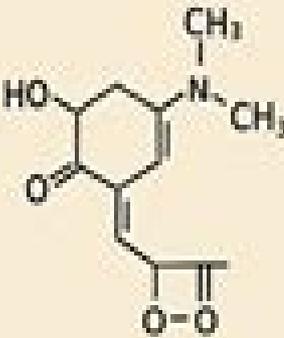
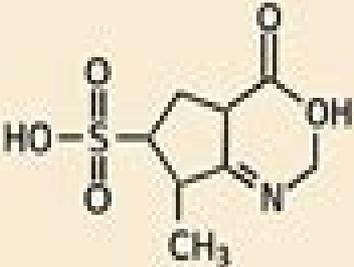


Macromolecules

Proteins	Carbohydrates	Lipids	Nucleic Acids
<p>Amino acids</p> $ \begin{array}{c} \text{H} \quad \text{O} \\ \quad \\ \text{H}-\text{N}-\text{C}-\text{H} \\ \\ \text{H} \end{array} $	<p>Monosaccharides</p> 		
<p>Monomer</p> <p>Structure, enzymes, transport</p>	<p>Main function</p> <p>Energy, structure</p>	<p>Energy storage, insulation</p> <p>Triglycerides, phospholipids</p>	<p>Store and transmit genetic info</p> <p>DNA, RNA</p>
<p>Example</p>	<p>Hemoglobin, enzymes</p>	<p>Triglycerides, phospholipids</p>	<p>Example</p>

Macromolecules Structure And Function

Peterson's



Macromolecules Structure And Function:

Macromolecules: Structure and Function 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

Computer Analysis Of Genetic Macromolecules: Structure, Function And Evolution Nikolay A Kolchanov, Hwa A Lim, 1994-03-29 Molecular biology and genetics are fast growing fields with significant results and findings being reported virtually every day Raw data from the wet lab accumulate at an astonishing rate making it necessary to analyze the biological data with the use of computers This book reveals how the current challenges of molecular biology and genetics are met with computer and mathematical treatments A combined effort of the Computational Genetics and Biophysics Group Supercomputer Computations Research Institute USA the Theoretical Molecular Genetics Russian Academy of Sciences Russia and the Bioinformatics Group Consiglio Nazionale delle Ricerche Italy many of these findings are firsthand discoveries made by these groups The book emphasizes the fundamental principles of the structural functional organization of the 3 major classes of genetic macromolecules DNA RNA and proteins It also

introduces universally applicable theoretical principles into the enormous realm of raw data and develops an integrative theoretical computer approach to the analysis of these macromolecules to gain insights into the complexities of their function and evolution

Biological Macro-molecules, Structure and Function C. Rajamanickam, Vadim Tikhonovich Ivanov, 1984 [Biomedical Index to PHS-supported Research](#), 1994 [Research Awards Index](#), 1977 **Which Degree?**, 1981 *Structure and Function of the Kidney* Rolf K. H. Kinne, 1989 [Peterson's Guide to Graduate Programs in the Biological Sciences 1997](#) Peterson's, 1997-01-05 Graduate students depend on this series and ask for it by name Why For over 30 years it s been the only one stop source that supplies all of their information needs The new editions of this six volume set contain the most comprehensive information available on more than 1 500 colleges offering over 31 000 master s doctoral and professional degree programs in more than 350 disciplines New for 1997 Non degree granting research centers institutes and training programs that are part of a graduate degree program Five discipline specific volumes detail entrance and program requirements deadlines costs contacts and special options such as distance learning for each program if available Each Guide features The Graduate Adviser which discusses entrance exams financial aid accreditation and more The only source that covers nearly 4 000 programs in such areas as oncology conservation biology pharmacology and zoology

[Chemical Constitution and Biological Activity](#) Wilfred Archibald Sexton, 1963 **Lehninger Principles of Biochemistry** David L. Nelson, Michael M. Cox, 2017-01-01 Lehninger Principles of Biochemistry is the 1 bestseller for the introductory biochemistry course because it brings clarity and coherence to an often unwieldy discipline offering a thoroughly updated survey of biochemistry s enduring principles definitive discoveries and groundbreaking new advances with each edition This new Seventh Edition maintains the qualities that have distinguished the text since Albert Lehninger s original edition clear writing careful explanations of difficult concepts helpful problem solving support and insightful communication of contemporary biochemistry s core ideas new techniques and pivotal discoveries Again David Nelson and Michael Cox introduce students to an extraordinary amount of exciting new findings without an overwhelming amount of extra discussion or detail And with this edition W H Freeman and Sapling Learning have teamed up to provide the book s richest most completely integrated text media learning experience yet through an extraordinary new online resource SaplingPlus [The Annual Guides to Graduate Study](#), 1972 [Plant Structure: Function and Development](#) John A. Romberger, Zygmunt Hejnowicz, Jane F. Hill, 1993-05-03 This book is about the developmental anatomy of large complex plants particularly of the woody plants that grow and survive for decades or centuries It is focused on the meaning of that anatomy that integrated structure as a determinant of effective function A pervading theme is that the plant structures that have survived selection processes during the eons of organismal evolution within the larger context of geo logic and climatic evolution are well attuned to biochemical and biophysical principles that determine and define efficient function The sets of structure and function couples existing in the various plant taxa differ so widely that generalities are often difficult to discern

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