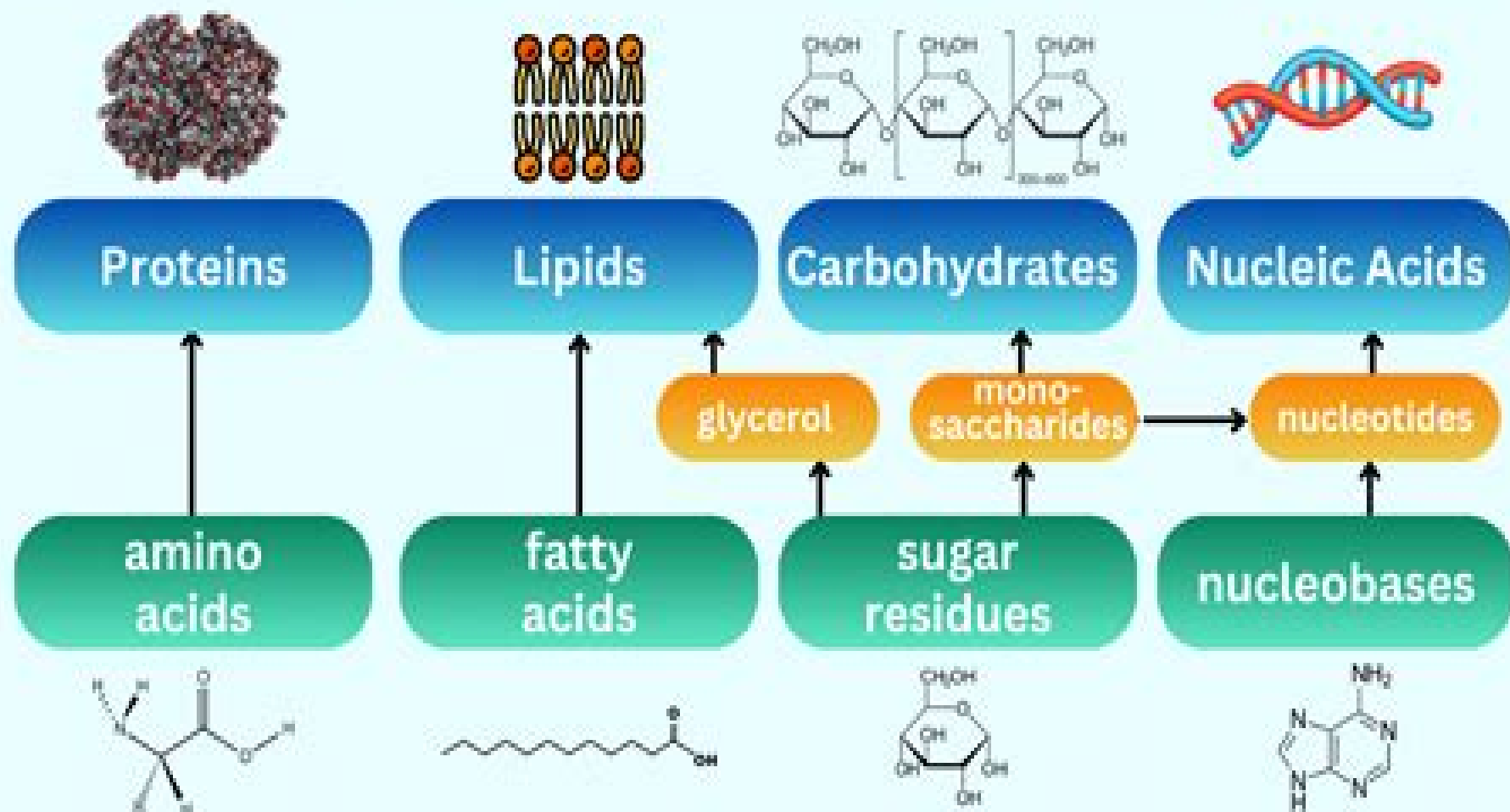


MACROMOLECULES

A macromolecule is a large molecule that forms by polymerization, where monomer subunits form covalent bonds to make a polymer.



Macromolecules Structure And Function

Finn Wold



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 Water and Biological Macromolecules Westhof,1993-08-16 Water and Biological Macromolecules presents an excellent description of the structural aspects of water molecules around biological macromolecules Topics discussed include the properties of water in solid and liquid states proteins nucleic acids polysaccharides and lipids and theoretical approaches for understanding the macroscopic observations and integrating microscopic descriptions The nature and roles of hydration forces in macromolecular complexation and cell cell interactions are explained in addition to phenomena such as entropy enthalpy compensation and the thermodynamic treatment of water bridging Water and Biological Macromolecules will be a valuable reference for biophysicists biochemists and macromolecular biologists **Biotechnology of Bioactive**

Compounds Vijai Kumar Gupta,Maria G. Tuohy,Anthonia O'Donovan,Mohtashim Lohani,2015-01-22 Bioactive compounds play a central role in high value product development in the chemical industry Bioactive compounds have been identified from diverse sources and their therapeutic benefits nutritional value and protective effects in human and animal healthcare have underpinned their application as pharmaceuticals and functional food ingredients The orderly study of biologically active products and the exploration of potential biological activities of these secondary metabolites including their clinical applications standardization quality control mode of action and potential biomolecular interactions has emerged as one of the most exciting developments in modern natural medicine Biotechnology of Bioactive Compounds describes the current stage of knowledge on the production of bioactive compounds from microbial algal and vegetable sources In addition the molecular approach for screening bioactive compounds is also discussed as well as examples of applications of these compounds on human health The first half of the book comprises information on diverse sources of bioactive compounds ranging from microorganisms and algae to plants and dietary foods The second half of the book reviews synthetic approaches as well as selected bioactivities and biotechnological and biomedical potential The bioactive compounds profiled include compounds such as C phycocyanins glycosides phytosterols and natural steroids An overview of the usage of bioactive compounds as antioxidants and anti inflammatory agents anti allergic compounds and in stem cell research is also presented along with an overview of the medicinal applications of plant derived compounds Biotechnology of Bioactive Compounds will be an informative text for undergraduate and graduate students of bio medicinal chemistry who are keen to explore the potential of bioactive natural products It also provides useful information for scientists working in various research fields where natural products have a primary role *Biomedical Index to PHS-supported Research* ,1987 **Biomedical Index to**

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National Institute of General Medical Sciences (U.S.),1975
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