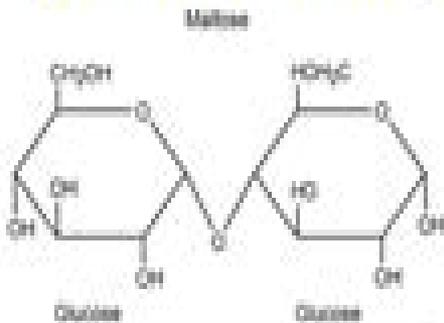
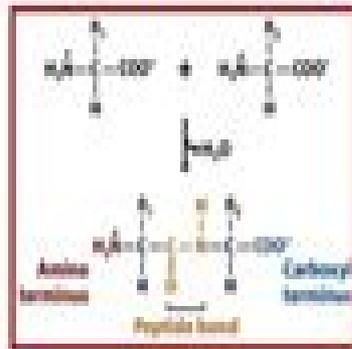


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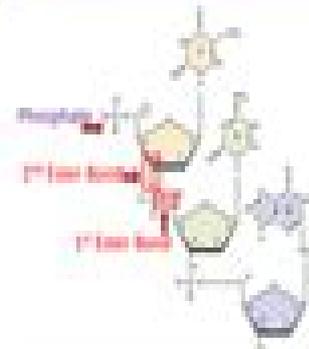
Carbohydrates



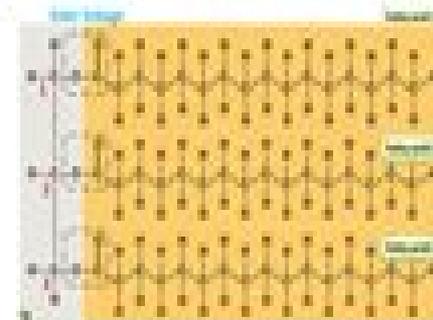
Proteins



Nucleic acids



Lipids



Monomers

Monosaccharides joined by glycosidic bond

Amino acids joined by peptide bond

Nucleotides joined by phosphodiester bond

Fatty acids and glycerol joined by ester bond

Examples

Starch, Cellulose

Insulin, Collagen

DNA, RNA

Fats, Oils, waxes

Elements

C,H,O

C,H,O,N, S

C,H,O,N,P

C,H,O

Functions

Energy source
Structural component
Reserve food

Enzyme, structure movement, defence hormones

Stores genetic information

energy source, insulation, membrane components, hormone

Biomolecules Structure And Functions 1st Edition

**Ramachandran Srinivasan,E.
Subramanian,N. Yathindra**



Biomolecules Structure And Functions 1st Edition:

Advanced Spectroscopic Methods to Study Biomolecular Structure and Dynamics Prakash Saudagar, Timir Tripathi, 2022-09-28 Advanced Spectroscopic Methods to Study Biomolecular Structure and Dynamics presents the latest emerging technologies in spectroscopy and advances in established spectroscopic methods The book presents a guide to research methods in biomolecular spectroscopy providing comprehensive coverage of developments in the spectroscopic techniques used to study protein structure and dynamics Seventeen chapters from leading researchers cover key aspects of spectroscopic methods with each chapter covering structure folding and dynamics This title will help researchers keep up to date on the latest novel methods and advances in established methods Presents current emerging and evolving advances and applications of spectroscopic techniques in the study of biomolecules including proteins and nucleic acids Discusses contemporary spectroscopic techniques used to study biomolecular structure interaction and dynamics

Neuroelectrodynamics Dorian Aur, Mandar S. Jog, 2010 The essence of brain function consists in how information is processed transferred and stored Current neurophysiological doctrine remains focused within a spike timing paradigm but this has a limited capacity for advancing the understanding of how the brain works This book puts forward a new model the neuroelectrodynamic model NED which describes the intrinsic computational processes by the dynamics and interaction of charges It uses established laws of physics such as those of classical mechanics thermodynamics and quantum physics as the guiding principle to develop a general theoretical construct of the brain s computational model which incorporates the neurobiology of the cells and the molecular machinery itself along with the electrical activity in neurons to explain experimental results and predict the organization of the system After addressing the deficiencies of current approaches the laws and principles required to build a new model are discussed In addition as well as describing experiments which provide the required link between computation and semantics the book highlights important concepts relating the theory of information with computation and the electrical properties of neurons The NED model is explained and expounded and several examples of its application are shown Of interest to all those involved in the fields of neuroscience neurophysiology computer science and the development of artificial intelligence NED is a step forward in understanding the mind in computational terms IOS Press is an international science technical and medical publisher of high quality books for academics scientists and professionals in all fields Some of the areas we publish in Biomedicine Oncology Artificial intelligence Databases and information systems Maritime engineering Nanotechnology Geoengineering All aspects of physics E governance E commerce The knowledge economy Urban studies Arms control Understanding and responding to terrorism Medical informatics Computer Sciences *Frontiers in Protein Structure, Function, and Dynamics* Dev Bukhsh Singh, Timir Tripathi, 2020-07-02 This book discusses a broad range of basic and advanced topics in the field of protein structure function folding flexibility and dynamics Starting with a basic introduction to protein purification estimation storage and its effect on

the protein structure function and dynamics it also discusses various experimental and computational structure determination approaches the importance of molecular interactions and water in protein stability folding and dynamics kinetic and thermodynamic parameters associated with protein ligand binding single molecule techniques and their applications in studying protein folding and aggregation protein quality control the role of amino acid sequence in protein aggregation muscarinic acetylcholine receptors antimuscarinic drugs and their clinical significances Further the book explains the current understanding on the therapeutic importance of the enzyme dopamine beta hydroxylase structural dynamics and motions in molecular motors role of cathepsins in controlling degradation of extracellular matrix during disease states and the important structure function relationship of iron binding proteins ferritins Overall the book is an important guide and a comprehensive resource for understanding protein structure function dynamics and interaction

Natural and Applied Science Bulletin ,1981 *Saligang Saliksik* ,1979 *Labs on Chip* Eugenio Iannone,2018-09-03

Labs on Chip Principles Design and Technology provides a complete reference for the complex field of labs on chip in biotechnology Merging three main areas fluid dynamics monolithic micro and nanotechnology and out of equilibrium biochemistry this text integrates coverage of technology issues with strong theoretical explanations of design techniques Analyzing each subject from basic principles to relevant applications this book Describes the biochemical elements required to work on labs on chip Discusses fabrication microfluidic and electronic and optical detection techniques Addresses planar technologies polymer microfabrication and process scalability to huge volumes Presents a global view of current lab on chip research and development Devotes an entire chapter to labs on chip for genetics Summarizing in one source the different technical competencies required *Labs on Chip Principles Design and Technology* offers valuable guidance for the lab on chip design decision making process while exploring essential elements of labs on chip useful both to the professional who wants to approach a new field and to the specialist who wants to gain a broader perspective **International Books in Print**

,1997 **Foundations of Anatomy and Physiology - ePub** Ellie Kirov,Alan Needham,2023-04-01 This new practice manual is designed to provide students with the conceptual foundations of anatomy and physiology as well as the basic critical thinking skills they will need to apply theory to practice in real life settings Written by lecturers Dr Ellie Kirov and Dr Alan Needham who have more than 60 years teaching experience between them the book caters to nursing health science and allied health students at varying levels of understanding and ability Learning activities are scaffolded to enable students to progress to more complex concepts once they have mastered the basics A key advantage of this manual is that it can be used by instructors and students in conjunction with any anatomy and or physiology core textbook or as a standalone resource It can be adapted for learning in all environments including where wet labs are not available Can be used with any other textbook or on its own flexible for teachers and students alike Scaffolded content suitable for students varying learning requirements and available facilities Concept based practical activities can be selected and adapted to align with different

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Introduction to Enzyme Technology Karl-Erich Jaeger,Andreas Liese,Christoph Syldatk,2024-03-21 This interdisciplinary textbook provides an easy to understand and highly topical introduction to all the specialist areas of modern enzyme technology In the first part of this three part textbook the reader is introduced to the fundamentals of enzyme structure reaction mechanisms enzyme kinetics enzyme modeling and process control In the second part methods for finding expressing optimizing purifying immobilizing and using enzymes in unusual reaction media are presented In the third part leading experts use examples to describe current applications of enzymes in the chemical and pharmaceutical industries for biomass degradation food production and processing as additives in detergents and cleaning agents for constructing biosensors and as therapeutics Students of bachelor and master programs in biology chemistry biochemistry and bioprocess engineering will gain up to date access to practical applications and developing industries However the fluent writing style makes the work suitable for all readers who want to gain an easy to understand insight into the production and application of enzymes This book is a translation of an original German edition The translation was done with the help of artificial intelligence machine translation by the service DeepL com A subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation

American Journal of Respiratory Cell and Molecular Biology ,1992

Biomolecular Structure, Conformation, Function, and Evolution: Physico-chemical and theoretical studies Ramachandran Srinivasan,E. Subramanian,N. Yathindra,1981 Biomolecules Structure & Functions Asha Sharma & Rajendra Kaushik,2009-01-01 Present book is written with the goal of offering the students a view of modern biochemistry by identifying the most important biochemical concepts and theories and explaining them at a level that is appropriate to the student s background The book is organized in four parts plus special topics The book includes latest innovations and developments in the field of biochemistry and meets the requirements of undergraduate and postgraduate students and researchers

National Scientists of the Philippines, 1978-1998 ,2000 *Molecular Docking for Computer-Aided Drug Design* Mohane S. Coumar,2021-02-17 *Molecular Docking for Computer Aided Drug Design* Fundamentals Techniques Resources and Applications offers in depth coverage on the use of molecular docking for drug design The book is divided into

three main sections that cover basic techniques tools web servers and applications It is an essential reference for students and researchers involved in drug design and discovery Covers the latest information and state of the art trends in structure based drug design methodologies Includes case studies that complement learning Consolidates fundamental concepts and current practice of molecular docking into one convenient resource

Proceedings of the 1st International Symposium on Chamomile Research, Development and Production Ivan Šalamon,2007 **British Books in Print** ,1985

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