

Name: _____

MACROMOLECULES

Date: _____

I. ELEMENTS AND MACROMOLECULES IN ORGANISMS: Most common elements in living things are **carbon, hydrogen, nitrogen, and oxygen**. These four elements constitute about **95% of your body weight**. All compounds can be classified in two broad categories --- **organic and inorganic compounds**. Organic compounds are made primarily of **carbon**. Carbon has **four outer electrons** and can form **four bonds**. Carbon can also bond to other carbon molecules forming **double, triple, or quadruple bonds**. Organic compounds also contain **hydrogen**. Since hydrogen has only one electron, it can form only **single bonds**.

Each small organic molecule can be a unit of a large organic molecule called a **macromolecule**. There are **four classes of macromolecules** (polysaccharides or **carbohydrates**, triglycerides or **lipids**, polypeptides or **proteins**, and nucleic acids such as DNA & RNA). **Carbohydrates and lipids** are made of only carbon, hydrogen, and oxygen (CHO). **Proteins** are made of carbon, hydrogen, oxygen, and nitrogen (CHON). **Nucleic acids** such as DNA and RNA contain carbon, hydrogen, oxygen, nitrogen, and phosphorus (CHON P). The body also needs trace amounts of other elements such as calcium, potassium, and sulfur for proper functioning of muscles, nerves, etc.

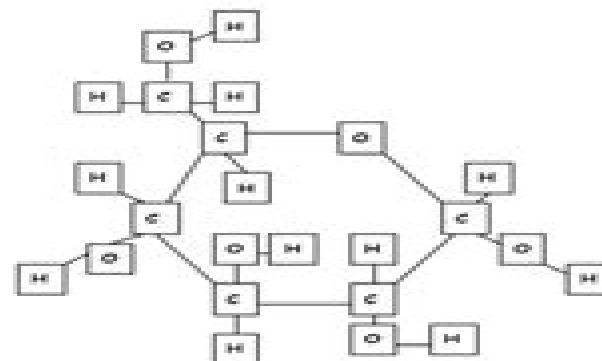
The **four main classes of organic compounds** (carbohydrates, lipids, proteins, and nucleic acids) that are **essential to the proper functioning of all living things** are known as **polymers or macromolecules**. All of these compounds are built primarily of carbon, hydrogen, and oxygen but in **different ratios**. This gives each compound **different properties**.

Questions:

1. What are the 4 main elements that make up 95% of an organism? _____
2. What are macromolecules? _____
3. Name the 4 classes of macromolecules: _____
4. What are the building blocks or subunits of macromolecules called? _____
5. Name 3 elements (symbols) your body needs trace amounts of for proper functioning _____

II. CARBOHYDRATES: are used by the body for **energy** and **structural support** in cell walls of plants and exoskeletons of insects and crustaceans. They are made of smaller subunits called **monosaccharides**. Monosaccharides have carbon, hydrogen, and oxygen in a **1:2:1 ratio**. Monosaccharides or **simple sugars** include **glucose, galactose, and fructose**. Although their chemical formulas are the same, they have **different structural formulas**. These simple sugars combine to make **disaccharides** (double sugars like sucrose) and **polysaccharides** (long chains like cellulose, chitin, and glycogen).

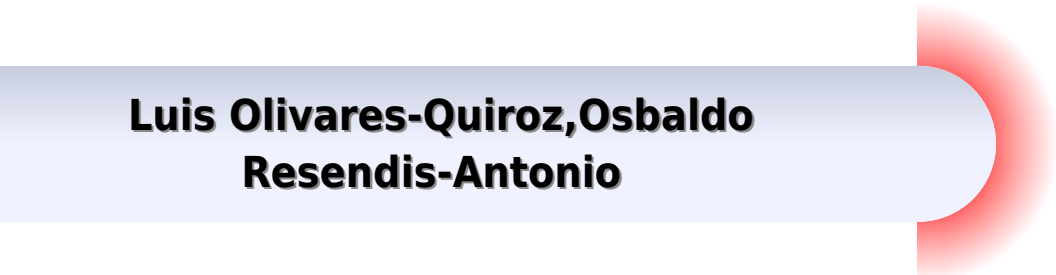
Task: *Color code* the glucose molecule to the right -----> (carbon-black, hydrogen-yellow, and oxygen-red).

**Questions:**

6. Name 2 ways our body uses carbohydrates. _____
7. What are the monomers (subunits) that make up carbohydrates? _____
8. Monosaccharides are _____ sugars
9. Name 3 monosaccharides _____
10. What are disaccharides? Give an example _____
11. Long chains of sugar are _____. Name 3 _____

Elements Macromolecules In Organisms Key

**Luis Olivares-Quiroz, Osbaldo
Resendis-Antonio**



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Macromolecules Containing Metal and Metal-Like Elements, Volume 4 Alaa S. Abd-El-Aziz, Charles E. Carraher, Jr., Charles U. Pittman, Jr., Martel Zeldin, 2005-04-15 This series provides a useful applications oriented forum for the next generation of macromolecules and materials Volume 4 provides useful descriptions of Group IV metals and their applications including silicon organogermanium organotin and organolead containing polymers A high quality team of macromolecular experts from around the world have put together these leading macromolecule titles [The Landscape of the Sierra Nevada](#) Regino Zamora, Marc Oliva, 2022-06-09 This book covers the landscape geography and environment of the Sierra Nevada in Spain The Sierra Nevada hosted the last glaciers in southern Europe Today it is one of the most important centers of plant diversity in the western Mediterranean and one of the most outstanding in Europe This massif has ideal conditions to analyze past environments as well as the effects of global change on ecosystems This can be seen in the large number of projects that are being conducted within the umbrella of the Sierra Nevada Global Change Observatory This book summarizes all the scientific knowledge available about this massif from the geomorphological and ecological perspectives to the recent spatial adaptive management and Open Science initiatives Focusing on the very sensitive mountain environment of Sierra Nevada the book intends to be a reference for many people interested in mountain processes The audience would include scientists from all disciplines but it would also target on an audience beyond the academia territorial managers environmentalists mountaineers politicians technicians etc

Cell and Molecular Biology Essentials Bolakale Aremu, 2025-03-02 Are you ready to unlock the secrets of life itself Whether you're a high school student college learner or a curious mind seeking to understand the fundamental building blocks of life this comprehensive book is your ultimate guide to mastering cell and molecular biology without the overwhelm What's Inside This book takes you on an engaging journey through 38 well structured chapters covering everything from the basic principles of biology to the complex processes that sustain life at the cellular and molecular levels Key Topics Include The origins and evolution of life Understand how life evolved and adapted Cell structure and function Dive deep into prokaryotic and eukaryotic cells Genetics and DNA Discover how our genetic blueprints shape who we are Atoms molecules and chemical bonds Explore the microscopic forces that hold life together Thermodynamics in living systems Learn how energy flows through cells Enzymes metabolism and cellular respiration Uncover how cells power themselves The plasma membrane and transport systems See how cells communicate and manage resources Photosynthesis and energy production Follow the incredible story of plants capturing sunlight Cell signaling and communication Discover how cells talk to each other Oxidation reduction and redox reactions Essential processes for life itself And so much more Every concept is explained in simple clear language with bolded keywords to help you retain the most critical terms and ideas Real world examples tables and helpful summaries guide you along the way making this book perfect for independent learners and students preparing for exams Why This Book Stands Out Comprehensive Coverage

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both fundamental descriptions that can be applied to different phenomena in biology All chapters are written by well known experts on their respective research fields with a vast amount of scientific discussion and references in order the interested reader can pursue a further reading Given these features we consider Quantitative Models for Microscopic to Macroscopic Biological Macromolecules and Tissues as an excellent and up to date resource and reference for advanced undergraduate students graduate students and junior researchers interested in the latest developments at the intersection of physics mathematics molecular biology and computational sciences Such research field without hesitation is one of the most interesting challenging and active of this century and the next

Biological and Medical Significance of Chemical Elements Irena Kostova,2023-10-27 Explore the fascinating interplay between chemical elements and biological life with Biological and Medical Significance of Chemical Elements This comprehensive handbook delves into the pivotal role that various chemical elements from the periodic table play in the intricate web of life processes Discover how these elements impact human health influence drug development and contribute to essential biological pathways Key Features Provides information on the occurrence and classification of chemical elements in nature Explains the biological functions of elements from different main groups including s p d and f block elements Includes information about the biomedical significance of platinum metals lanthanides and actinides Includes a list of references for further reading This book serves as an indispensable resource for anyone interested in the medical biochemistry of chemical elements

Global Ecology Sven Erik Jørgensen,2010-04-16 Global Ecology focuses on the perception of the biosphere or the ecosphere as a unified cooperative system with numerous synergistic effects which describe the distinctive properties of this sphere This book is subdivided into five parts dealing with diverse aspects in global ecology The first part of the book provides comprehensive description of the biosphere including its unique characteristics and evolution This part also describes various spheres in the biosphere such as the hydrosphere noosphere and pedosphere as well as their composition The next part focuses on the global cycles including calcium carbon iron microbial nitrogen oxygen phosphorus sulfur and water cycles In addition global balances and flows are explained Presented in the third part are the results of the global cycles and flows as well as the patterns of the climatic factors and marine currents There is also a part discussing the climate interactions climatic changes and its effect on the living organisms The book concludes by covering the application of stoichiometry in the biosphere and in ecosystems The book offers a comprehensive view of global ecology and ecological stoichiometry which will aid in the processes of global ecology Provides an overview of the theory and application of global ecology International focus and range of ecosystems makes Global Ecology an indispensable resource to scientists Based on the bestselling Encyclopedia of Ecology Full color figures and tables support the text and aid in understanding

Trace Elements, Micronutrients, and Free Radicals Ivor E. Dreosti,2012-12-06 This book addresses many of today s key issues pertaining to free radical damage and micronutrient production A valuable guide for a variety of specialists concerned with nutrition and the prevention of free radical tissue

injury **Mars Sample Handling Protocol Workshop Series** ,2001 **Chemistry** John Olmsted,Greg Williams,Robert C. Burk,2020 Chemistry 4th Edition is an introductory general chemistry text designed specifically with Canadian professors and students in mind A reorganized Table of Contents and inclusion of SI units IUPAC standards and Canadian content designed to engage and motivate readers and distinguish this text from other offerings It more accurately reflects the curriculum of most Canadian institutions Chemistry is sufficiently rigorous while engaging and retaining student interest through its accessible language and clear problem solving program without an excess of material and redundancy

Molecular Biology Nancy Lynn Craig,Rachel Green,Carol C. Greider,Carol W. Greider,Gisela Storz,Cynthia Wolberger,Orna Cohen-Fix,2021 Molecular Biology Principles of Genome Function offers a fresh distinctive approach to the teaching of molecular biology It is an approach that reflects the challenge of teaching a subject that is in many ways unrecognizable from the molecular biology of the 20th century a discipline in which our understanding has advanced immeasurably but about which many questions remain to be answered KEY FEATURES A focus on the underlying principles equips students with a robust conceptual framework on which to add further detail from the vast amount of scientific information available to us today An emphasis on commonalities reflects the conserved molecular processes and components that we now know to exist between bacteria archaea and eukaryotes Experimental Approach panels demonstrate the central importance of experimental evidence to furthering our understanding of molecular biology by describing research that has been particularly valuable in elucidating different aspects of the subject Online resources for both instructors and students alike enhance the educational value of the text NEW TO THIS EDITION New content on epigenetics targeted genome editing and pre mRNA splicing Cutting edge scientific breakthroughs in CRISPR technology including a description of newly defined steps in the molecular mechanisms underlying CRISPR mediated adaptation in bacterial adaptive immunity and a description of a recently discovered transposable element family whose integration mechanism is closely related to and involves molecular relatives of the CRISPR Cas bacterial adaptive immunity system Enhanced coverage of DNA replication and regulatory RNAs Seven new Experimental Approach panels This title is available as an eBook Visit VitalSource for more information or to purchase Seeking Sustainability in an Age of Complexity Graham Harris,2007-06-14 Seeking Sustainability in an Age of Complexity explains the difficulties of sustainability and why collapse can occur In the last twenty years the theory of complexity has been developed complex systems science CSS speaks to natural systems and particularly to ecological social and economic systems and their interaction Due to the growing concern over the huge changes occurring in the global environment such as climate change deforestation habitat fragmentation and loss of biodiversity Graham Harris sets out what has been learned in an attempt to understand the implications of these changes and suggests ways to move forward This book discusses a number of emerging tools for the management of unruly complexity which facilitate stronger regional dialogues about knowledge and values which will be of interest to ecologists sociologists economists natural

resource managers and scientists in State and local governments and those involved in water and landscape management

Elemental-Embodied Thinking for a New Era Lenart Škof, Sashinungla, Sigridur Thorgeirsdottir, 2024-05-03 This collection responds to widespread complex and current environmental challenges by presenting eleven original essays on a new elemental embodied approach in environmental humanities This approach has a special focus on elemental and indigenous philosophies as well as localized experiences of terrestrial forces from earthquakes and eruptions to pandemics and natural disasters Representing a shift in modern Western scientific and disembodied thinking of nature this edited book approaches the question of relationality and intertwining of human and natural being by utilizing the elemental embodied methodologies within philosophy of embodiment and nature Supported by research in cognitive sciences the contributors represent the experiential and affective turn within research into human cognition As embodied the human being is embedded and interacting with all there is The aim of this edited volume is to indicate new paths toward regaining our access to natural being within us and thus toward reconnecting with the natural environment and the things and beings around us in a new environmentally enhanced way It appeals to researchers and students working in many fields predominantly in philosophy as well as religious and environmental studies

Gods, Genes, Conscience Mong H. Tan Ph. D., Mong Tan, 2006 GODS GENES CONSCIENCE delves deeply and portrays succinctly the nature of our millennia old body soul and spirit mind paradoxes including those of our earliest shamanic quests and material conquests for survival From our innate dreams to religious self contradictions corruptions conflicts destructions to arts linguistics to socioeconomics geopolitics to science technology and to reason sensibility sanity faith Specifically this pop science first book author Mong H Tan PhD fathoms links among the chaos orders of the evolutionary interstellar fabrics of Space Time Energy and Matter or the cosmic STEM matrixes entities in the Universe that are all around us From the creations of Life Genes on Earth to the ultimate unique unbound capacity capability of our Mind Gods within in our brain or memophorescencity a new unified quantum Mind theory pursued from an empiricist electrochemical particle wave or Yin Yang propensities of holism cosmology a critical reader s Theory of Everything Biogenesis Meanings and all Epistemologically memophorescencically in and by all accounts intellectual and spiritual Dr Tan s critical inquiries philosophical and psychological his timely anatomy synthesis of the STEM origins particularly those of our genetics mnemonics our fast advancing knowledge consciousness freewill and conscience regarding Gods and our ultimate wisdom of cherishing Life on Earth have no doubt been sharpened enriched and transcended by the vast fast advances in science technology multiculturalism and pluralism of the East West today and beyond

Molecular Mechanisms of Autonomy in Biological Systems Tara Karimi, 2018-07-28 This book presents a novel molecular description for understanding the regulatory mechanisms behind the autonomy and self organization in biological systems Chapters focus on defining and explaining the regulatory molecular mechanisms behind different aspects of autonomy and self organization in the sense of autonomous coding data processing structure mass formation and energy

production in a biological system Subsequent chapters discuss the cross talk among mechanisms of energy and mass and information transformation in biological systems Other chapters focus on applications regarding therapeutic approaches in regenerative medicine Molecular Mechanisms of Autonomy in Biological Systems is an indispensable resource for scientists and researchers in regenerative medicine stem cell biology molecular biology tissue engineering developmental biology biochemistry biophysics bioinformatics as well as big data sciences complexity and soft computing

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Microbiology Dave Wessner,Christine Dupont,Trevor Charles,Josh Neufeld,2017-08-28 Microbiology 2nd Edition helps to develop a meaningful connection with the material through the incorporation of primary literature applications and examples The text offers an ideal balance between comprehensive in depth coverage of core concepts while employing a narrative style that incorporates many relevant applications and a unique focus on current research and experimentation The book frames information around the three pillars of physiology ecology and genetics which highlights their interconnectedness and helps students see a bigger picture This innovative organization establishes a firm foundation for later work and provides a perspective on real world applications of microbiology

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Advances in Microbial Physiology ,2023-03-20 Advances in Microbial Physiology Volume 82 in this serial that highlights new advances in the field presents interesting chapters on a variety of topics including Protein secretion via the Type I secretion system

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