

Name _____ Period _____

Chapter 4: Carbon and the Molecular Diversity of Life

Concept 4.1 Organic chemistry is the study of carbon compounds

1. Study this figure of Stanley Miller's experiment to simulate conditions thought to have existed on the early Earth. Explain the elements of this experiment, using arrows to indicate what occurs in various parts of the apparatus.



2. What was collected in the sample for chemical analysis? What was concluded from the results of this experiment? *There were a variety of organic molecules that are common in organisms (hydrocarbons, amino acids, CH₂O, CH₄ and a more)*
concluded that organic molecules may have been synthesized abiotically on the Earth

Concept 4.2 Carbon atoms can form diverse molecules by bonding to four other atoms

3. Make an electron distribution diagram of carbon. It is essential that you know the answers to these questions:

- a. How many valence electrons does carbon have? *4!!!*
- b. How many bonds can carbon form? *4!!! up to 4*
- b. What type of bonds does it form with other elements?

covalent bonds

4. Carbon chains form skeletons. List here the types of skeletons that can be formed.

- 1.) length
- 2.) presence of rings
- 3.) branching
- 4.) double bond position

5. What is a hydrocarbon? Name two. Are hydrocarbons hydrophobic or hydrophilic?

An organic molecule consisting only of carbon & Hydroge
Hydrophobic

Ap Bio Chapter 45 Reading Guide

**Vivek Sharma, Richa Salwan, Laith
Khalil Tawfeeq Al-Ani**



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Molecular Aspects of Plant Beneficial Microbes in Agriculture Vivek Sharma, Richa Salwan, Laith Khalil Tawfeeq Al-Ani, 2020-03-12 Molecular Aspects of Plant Beneficial Microbes in Agriculture explores their diverse interactions including the pathogenic and symbiotic relationship which leads to either a decrease or increase in crop productivity Focusing on these environmentally friendly approaches the book explores their potential in changing climatic conditions It presents the exploration and regulation of beneficial microbes in offering sustainable and alternative solutions to the use of chemicals in agriculture The beneficial microbes presented here are capable of contributing to nutrient balance growth regulators suppressing pathogens orchestrating immune response and improving crop performance The book also offers insights into the advancements in DNA technology and bioinformatic approaches which have provided in depth knowledge about the molecular arsenal involved in mineral uptake nitrogen fixation growth promotion and biocontrol attributes Daily Graphic Sam Clegg, 1992-04-27 **Energy Research Abstracts**, 1986 **Book Review Digest**, 1905 Excerpts from and citations to reviews of more than 8 000 books each year drawn from coverage of 109 publications Book Review Digest provides citations to and excerpts of reviews of current juvenile and adult fiction and nonfiction in the English language Reviews of the following types of books are excluded government publications textbooks and technical books in the sciences and law Reviews of books on science for the general reader however are included The reviews originate in a group of selected periodicals in the humanities social sciences and general science published in the United States Canada and Great Britain Publisher **CRISPR** Rodolphe Barrangou, Erik J. Sontheimer, Luciano A. Marraffini, 2022-09-14 An excellent compendium of all things CRISPR from some of the leading minds in the field With thorough coverage from every angle and beautifully detailed illustrations this book is not to be missed Jennifer A Doudna Professor of Chemistry Biochemistry Founder Innovative Genomics Institute Nobel Laureate and coinventor of CRISPR technology This journey through CRISPR biology and several of its breakthrough applications offers an exciting glimpse into one of the most beautiful and compelling fields in the life sciences David R Liu Director of the Merkin Institute at the Broad Institute of MIT and Harvard Professor of Chemistry and Chemical Biology at Harvard University coinventor of base editing and prime editing A must read The CRISPR topics written by world leading experts span from the fascinating mechanistic underpinnings to the ingenious applications One can read from start to finish or pick and choose themes Either way the book delivers utterly enjoyable learning Bonnie Bassler Squibb Professor and Chair Princeton University Department of Molecular Biology Howard Hughes Medical Institute Investigator CRISPR Cas systems have revolutionized the science of gene editing and their possible applications continue to expand from basic research to potentially groundbreaking medical and commercial uses Led by a distinguished team of editors CRISPR Biology and Applications explores the subject matter needed to delve into this fascinating area Topics covered include Classification and molecular mechanisms of CRISPR Cas systems CRISPR Cas evolution regulation expression and function

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