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water plus six molecules of carbon
dioxide produce one molecule of
sugar plus six molecules of oxygen 5

PPT – Environmental Biochemistry

Page 19/73

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Overview. Environmental chemists monitor what is in the air, water, and

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Environmental Protection - American
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Biochemistry is the study of chemical processes within and relating to living organisms. A sub-discipline of both chemistry and biology, biochemistry may be divided into three fields: structural biology, enzymology and metabolism. Over the last decades of the 20th century, biochemistry has

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Biochemistry - Wikipedia

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Environmental Chemistry - Chemistry
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Although it is based on toxicology,
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from other fields, including
biochemistry, cell biology,

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The first stand-alone textbook for at least ten years on this increasingly hot topic in times of global climate change and sustainability in

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ecosystems. Ecological biochemistry refers to the interaction of organisms with their abiotic environment and other organisms by chemical means. Biotic and abiotic factors determine the biochemical flexibility of organisms, which otherwise easily adapt to environmental changes by

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altering their metabolism. Sessile plants, in particular, have evolved intricate biochemical response mechanisms to fit into a changing environment. This book covers the chemistry behind these interactions, bottom up from the atomic to the system's level. An introductory part

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Biochemistry explains the physico-chemical basis and biochemical roots of living cells, leading to secondary metabolites as crucial bridges between organisms and the respective ecosystem. The focus then shifts to the biochemical interactions of plants, fungi and bacteria within terrestrial and aquatic

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Applying principles of Biochemistry for the protection of environment is the main concern of environmental biochemistry. The main themes include managing water quality and

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necessary, diagrams and structures of compounds have been used.

Biochemistry is a multidiscipline field that studies the chemistry of life processes. These processes can be loosely divided into the following groups: reactions that are anabolic (build up molecules) or catabolic

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Biochemistry (break down molecules), chemistry of regulatory pathways (hormones and genes) and the chemistry of cell structure. At the cellular level the reactions include oxidation/reduction reactions, group transfer, hydrolysis, bond making and breaking reactions. On the systemic level the reaction

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and the phenomenon of induced
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Of all the zoological classes the
insects are the most numerous in
species and the most varied in
structure. Estimates of the number 18

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of species vary from 1 to 10 million, and 10 individuals are estimated to be alive at any given moment. In their evolution, insects are relatively ancient and, therefore, they have proved to be a phenomenally successful biological design which has survived unchanged in its basic

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Insects were the first small animals to
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Their small size opened many more
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this design that has made insects so

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particular importance in determining their physiological relationship with the environment: their small size, as mentioned above, the impermeability and rigidity of their exoskeleton, and their poikilothermy. Of course, as with any other animals, the insects' success in its environment depends

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