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Essential Cell Biology: Chapter 03. STUDY. PLAY. metabolism . The sum total of the chemical reactions that take place in the cells of a living organism. catabolism. Set of enzyme-catalyzed reactions by which complex molecules are degraded to simpler ones with release of energy; intermediates in these reactions are sometimes called ____ites. anabolism. Set of metabolic pathways by which large

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Chapter 3 Energy Catalysis and Biosynthesis

Cells exploit the selective permeability of these membranes to partition populations of molecules and generate chemical energy for the cell. Use the principles of the first and second laws of thermodynamics to explain how membranes can be used to produce chemical energy.

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The acceleration of a chemical reaction due to the presence of a substance (the catalyst) that itself remains unchanged after the reaction. In cells, virtually all biochemical reactions are catalyzed (by enzymes) to enable them to occur at the temperature of living matter and within the timescale required.

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Chapter 3 Energy Catalysis and Biosynthesis

CHAPTER 3. ENERGY, CATALYSIS, AND BIOSYNTHESIS (2009 Garland Science Publishing. Catalysis and the Use of Energy by Cells. 3-1 Chemical reactions carried out by living systems depend on the ability of some organisms to capture and use atoms from nonliving sources in the environment.

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Cell Biology Chapter 3 Chapter 3 Energy Catalysis and

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chapter 14: energy generation in the mitochondria and chloroplasts chapter 3: energy, catalysis, and biosynthesis chapter 3 - energy, catalysis, and biosynthesis

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Activated carrier that donates the carbon atoms in its readily transferable acetyl group to many metabolic reactions, including the citric acid cycle and fatty acid biosynthesis; the acetyl group is linked to coenzyme A (CoA) by a thioester bond that releases a large amount of energy when hydrolyzed.

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This energy is used to drive endergonic reactions in cells amino group a chemical group consisting of a nitrogen atom bonded to two hydrogen atoms; can act as a base in solution, accepting of a hydrogen ion and acquiring a charge of 1+

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