

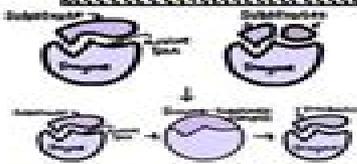
cellular energetics
enzymes
cellular respiration

UNIT 3 REVIEW

CELLULAR ENERGETICS

enzymes
photosynthesis
energy / atp

ENZYMES



- Speeds up chemical reactions
- Changes in shape can stop reaction
- Temperature and pH changes
- Can alter enzymes shape
 - pH can disrupt hydrogen bonds
 - Higher temp causes more collisions = higher reaction rate

Enzyme concentration

- Increase in concentration of substrate and enzymes can increase reaction rate
- Higher product levels = feedback inhibition

VOCABULARY

- photon = particles of light waves
- shorter wavelength = higher energy
- pigments = substances that absorb light
- wavelength distance between waves
- chloroplasts = found in stroma, stacked into columns known as grana

INHIBITION

Competitive Inhibition: Inhibitors bind to active site competing for substrate

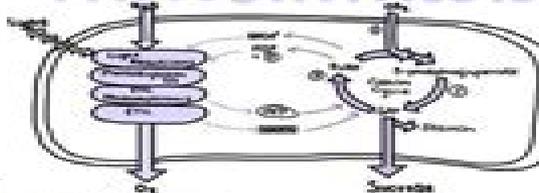


- Chlorophyll - absorbs violet - blue light, reflects green
- Chlorophyll a = blue - green color
- Chlorophyll b = yellow - green color
- Carotenoids: photosynthesis: photoblast
- Shows up light absorption

Steps of Light dependent reaction

- Water splits creating O_2 byproduct
 - Light transfers electrons and H^+ ions to NADP⁺
 - NADP⁺ reduced to NADPH by adding electrons and one H^+ ion
 - Chemiosmosis generates ATP through photophosphorylation
- PRODUCTS: ATP and NADPH

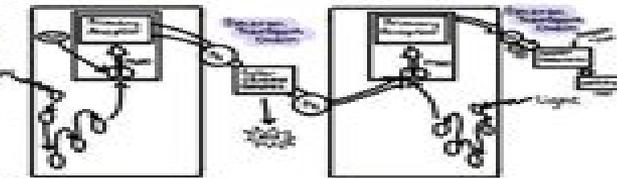
PHOTOSYNTHESIS



Thylakoid space → site of light dependent reactions
Stroma → site of light independent reactions

Light dependent reactions

Reactions capture energy from light to create ATP and NADPH to power Calvin cycle



Photosystem II: PEP Synthase produces PEP w/ added H⁺ from photo II

calvin cycle

- products: carbohydrates from carbon dioxide
- three phases: carbon fixation, reduction, regeneration of ATP
- Carbon fixation → rubisco catalyzes CO_2 attaching to 5-carbon sugar, creates 6-carbon which splits into 2 3C
- Reduction → each molecule gains then loses a phosphate becoming G3P, five G3P are used
- Regeneration → carbon of G3P are arranged to create RuBP = PRODUCT: G3P (sugar)
- For one G3P, cycle must happen three times

CELLULAR RESPIRATION

Glycolysis → releases energy in glucose to form ATP from ADP and inorganic phosphate, and NADPH from NADP⁺ and pyruvate



pyruvate is transported from cytosol to mitochondrion to further oxidize

KREBS CYCLE

Carbon dioxide is released from organic intermediates, ATP is synthesized and electrons are transferred to coenzymes NADH and FADH₂

Electrons extracted in glycolysis and Krebs go to ETC in inner mitochondrial membrane



Chemiosmosis: a proton flow across membrane through ATP synthase, driving ATP from ADP and inorganic phosphate

Maximum rate occurring from phosphorylation in cellular respiration and photophosphorylation in photosynthesis

FERMENTATION

Follows glycolysis to process in the absence of oxygen, produces lactic acid and alcohol

- 2 lactate, using 2 NADH and sending H⁺ back to glycolysis
 - 2 ethanol, using 2 NADH and sending H⁺ back to glycolysis
- both types of fermentation contain NAD⁺ regeneration

Ap Biology Chapter 18 Notes

M Tight



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Applications of Automata Theory and Algebra John L. Rhodes, Christopher L. Nehaniv, 2010 This book was originally written in 1969 by Berkeley mathematician John Rhodes It is the founding work in what is now called algebraic engineering an emerging field created by using the unifying scheme of finite state machine models and their complexity to tie together many fields finite group theory semigroup theory automata and sequential machine theory finite phase space physics metabolic and evolutionary biology epistemology mathematical theory of psychoanalysis philosophy and game theory The author thus introduced a completely original algebraic approach to complexity and the understanding of finite systems The unpublished manuscript often referred to as The Wild Book became an underground classic continually requested in manuscript form and read by many leading researchers in mathematics complex systems artificial intelligence and systems biology Yet it has never been available in print until now This first published edition has been edited and updated by Christopher Nehaniv for the 21st century Its novel and rigorous development of the mathematical theory of complexity via algebraic automata theory reveals deep and unexpected connections between algebra semigroups and areas of science and engineering Co founded by John Rhodes and Kenneth Krohn in 1962 algebraic automata theory has grown into a vibrant area of research including the complexity of automata and semigroups and machines from an algebraic viewpoint and which also touches on infinite groups and other areas of algebra This book sets the stage for the application of algebraic automata theory to areas outside mathematics The material and references have been brought up to date by the editor as much as possible yet the book retains its distinct character and the bold yet rigorous style of the author Included are treatments of topics such as models of time as algebra via semigroup theory evolution complexity relations applicable to both ontogeny and evolution an approach to classification of biological reactions and pathways the relationships among coordinate systems symmetry and conservation principles in physics discussion of punctuated equilibrium prior to Stephen Jay Gould games and applications to psychology psychoanalysis epistemology and the purpose of life The approach and contents will be of interest to a variety of researchers and students in algebra as well as to the diverse growing areas of applications of algebra in science and engineering Moreover many parts of the book will be intelligible to non mathematicians including students and experts from diverse backgrounds

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