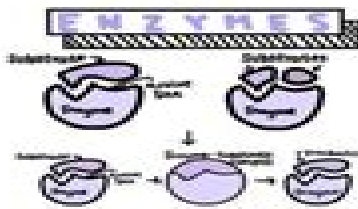


cellular energetics
enzymes
cellular respiration

UNIT 3 REVIEW

CELLULAR ENERGETICS

enzymes
photosynthesis
energy / atp



- Speeds up chemical reactions
- Changes in shape can stop function
- Temperature and pH changes
- Can alter enzyme's 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

- photons = 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: molecules bind to binding site, competing to achieve change in shape and activity

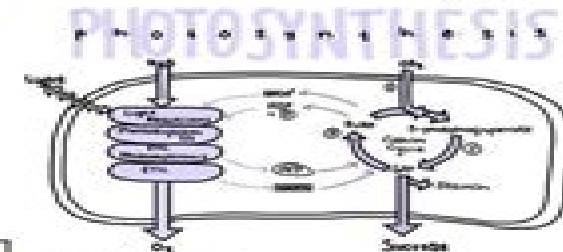
Noncompetitive inhibition: molecules bind to allosteric sites and change enzyme shape



- Chloroplast = captures light, converts light, releases oxygen
- Chlorophyll a = blue-green color
- Chlorophyll b = yellow-green color
- Carotenoids: photosynthesis: photoblast
- Stroma: site of light independent reactions

Steps of light dependent reactions

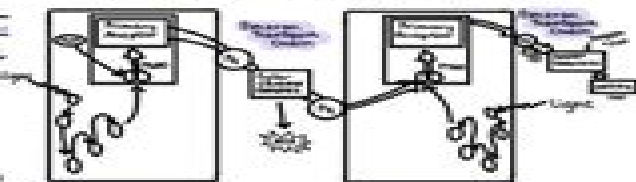
- 1) Water splits creating O_2 byproduct
 - 2) Light transfers electrons and H^+ ions to NADP⁺
 - 3) NADP⁺ reduced to NADPH by adding 2 electrons and one H^+ ion
 - 4) Chemiosmosis generates ATP through photophosphorylation
- PRODUCTS: ATP and NADPH



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

Light independent reactions

Reactions capture energy products 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

- produces carbohydrates from carbon dioxide
- three phases: carbon fixation, reduction, regeneration of ATP

Carbon fixation → triose catalyzes CO_2 attaching to 3-carbon sugar, creates 6-carbon which splits into 2 3's
Reduction → each molecule gains then loses a phosphate becoming G3P, first G3P are used
Regeneration → carbon of G3P are arranged to create RuBP = PRODUCT: G3P (sugar)

For one G3P, cycle must happen three times

FERMENTATION

allows glycolysis to proceed in the absence of oxygen, produces lactic acid and alcohol

- 2 lactate, using 2 NADH and sending water back to glycolysis
- 2 ethanol, using 2 NADH and sending water back to glycolysis

both types of fermentation contain steps of glycolysis

CELLULAR RESPIRATION

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

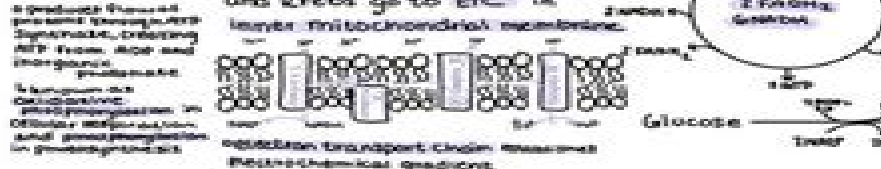
Glucose → $\xrightarrow{\text{ATP}}$ Pyruvate

• 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 process through which protons move through ATP synthase, creating ATP from ADP and inorganic phosphate

Transporters: molecules that facilitate the movement of substances across a membrane

Electron transport chain: a series of protein complexes that transfer electrons from one molecule to another, creating a proton gradient used for chemiosmosis

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Quick Review Notes

Julia Schneider



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