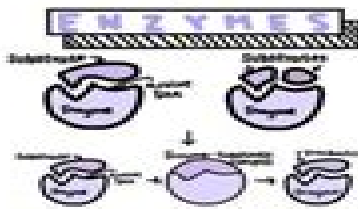


cellular energetics
enzymes
cellular respiration

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 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

- 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 blocking non-covalently to active site, change shape and activity

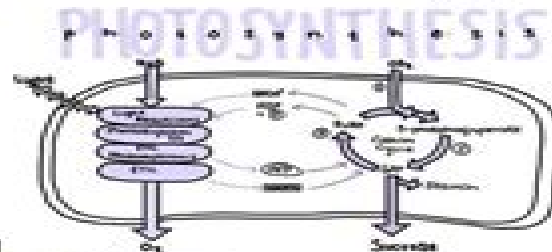
Non-competitive inhibition: molecules bind to allosteric sites and change enzyme shape



- 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

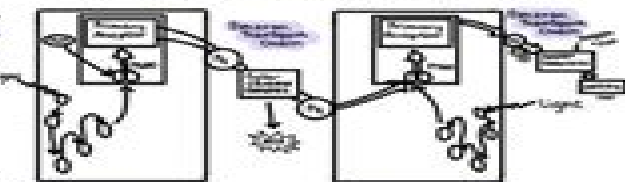
- 1) Water splits creating O_2 byproduct
 - 2) Light transfers electrons and H^+ ions to NADP⁺
 - 3) NADP⁺ reduced to NADPH by adding 2 electrons and one H^+ ion
 - 4) Chemiosmosis generates ATP through photophosphorylation
- PRODUCTS: ATP and NADPH



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 → rubisco catalyzes CO_2 attaching to 5-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
Glycolysis occurs in cytoplasm, with or without oxygen

• pyruvate is transported from cytosol to mitochondrion to further oxidize

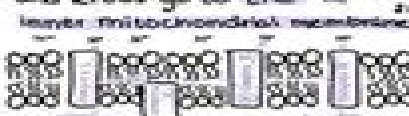


Chemiosmosis: a process through which protons (H⁺) are pumped across a membrane, creating a proton gradient. This gradient is used to drive the synthesis of ATP from ADP and inorganic phosphate.

Transporters: proteins that facilitate the movement of molecules across a membrane. In cellular respiration, they are involved in the transport of protons and electrons across the inner mitochondrial membrane.

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

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



electron transport chain releases electrochemical gradient



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

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Daniela Niemeyer



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