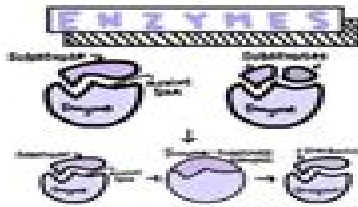


cellular energetics
enzymes
cellular respiration

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 concentrations

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

VOCABULARY

- photons = particles of light waves
- shorter wavelengths = higher energy
- pigments = substances that absorb light
- wavelength = distance between waves
- thylakoids = sacs in stroma, stacked into columns known as grana

INHIBITION

Competitive Inhibition: molecules bind to active site preventing substrate from binding, decreasing enzyme activity

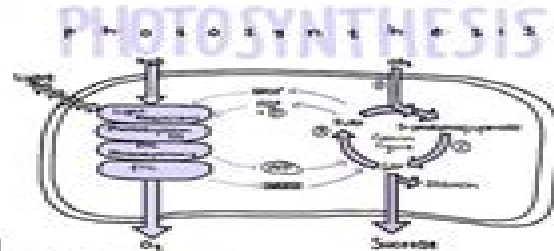
Noncompetitive Inhibition: inhibitors bind to allosteric sites and change enzyme shape



- Chlorophyll - absorbs violet + reaches light, reflects green
- Chlorophyll a = blue-green colour
- Chlorophyll b = yellow-green colour
- Carotenoids: photosynthesis inhibitors
- Shows off light absorption

Steps of Light dependent reactions

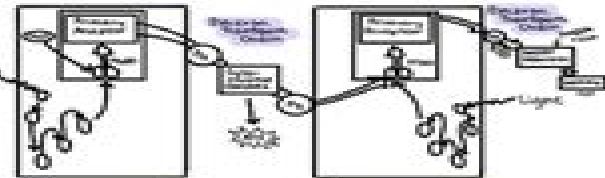
- 1) Water splits creating O_2 byproduct
 - 2) Light transfers electrons and H^+ ions to NADP $^+$
 - 3) NADP $^+$ reduces to NADPH by adding 2 electrons and one H^+ ion
 - 4) Chemiosmosis generates ATP through photophosphorylation
- PRODUCTS: ATP and NADPH



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

Light independent reactions

Reduction captures 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

- produces carbohydrates from carbon dioxide
- Three phases: Carbon fixation, reduction, regeneration of ATP
- Carbon fixation → triose carbonylase O_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, five G3P are used
- Regeneration → carbon of G3P are arranged to create Rubis H^+ PRODUCT: G3P (sugar)
- For one G3P, cycle must happen three times

FERMENTATION

- allow glycolysis to proceed in the absence of oxygen, produce 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

CELLULAR RESPIRATION

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

Glucose → $\xrightarrow{\text{ADP}} \text{pyruvate} \xrightarrow{\text{ADP}} \text{pyruvate}$

glycolysis occurs in cytoplasm, with or without oxygen

- pyruvate is transported from cytosol to mitochondrion to further oxidise



KREBS CYCLE

Carbon dioxide is released from organic intermediates, ATP is synthesised and electrons are transferred to coenzymes NADH and FADH $_2$

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

electron transport chain releases electrochemical gradient

Chemiosmosis: a proton channel protein through ATP Synthase, driving ATP from ADP and inorganic phosphate

Chemiosmosis: a proton channel protein through ATP Synthase, driving ATP from ADP and inorganic phosphate

Chemiosmosis: a proton channel protein through ATP Synthase, driving ATP from ADP and inorganic phosphate



Glucose → $\xrightarrow{\text{ADP}} \text{pyruvate} \xrightarrow{\text{ADP}} \text{pyruvate}$

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Ap Biology 8th Edition Notes

Tao Wei



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