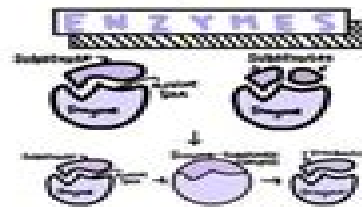


cellular energetics
enzymes
cellular respiration

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

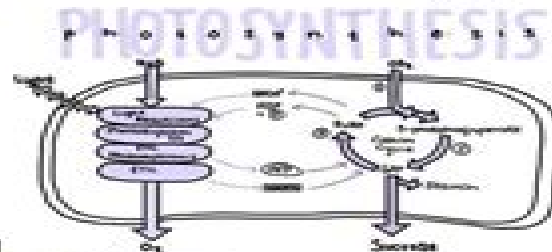
Non-competitive inhibition: molecules bind to allosteric sites and change enzyme shape



- 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

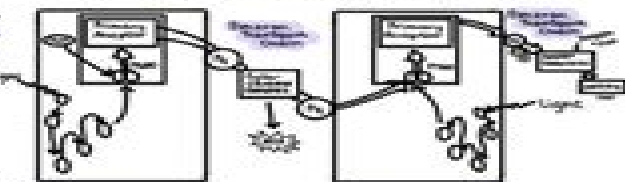
- 1) Water splits creating O_2 byproduct
 - 2) Light transfers electrons and H^+ ions to NADP⁺
 - 3) NADP⁺ reduced to NADPH by adding 2 electrons and one H^+ ion
 - 4) Chemiosmosis generates ATP through photophosphorylation
- PRODUCTS: ATP and NADPH



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

Light independent reactions

Reductions capture energy proteins 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 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 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 both 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

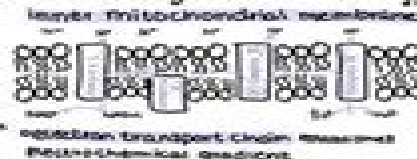


Chemiosmosis: a process through which protons (H⁺) are pumped across a membrane, creating ATP from ADP and inorganic phosphate

Transporters: a process through which protons (H⁺) are pumped across a membrane, creating ATP from ADP and inorganic phosphate

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



Glucose → $\xrightarrow{\text{ATP}}$ Pyruvate
Pyruvate → $\xrightarrow{\text{ATP}}$ Acetyl-CoA
Acetyl-CoA → $\xrightarrow{\text{ATP}}$ Citrate
Citrate → $\xrightarrow{\text{ATP}}$ Isocitrate
Isocitrate → $\xrightarrow{\text{ATP}}$ α-Ketoglutarate
α-Ketoglutarate → $\xrightarrow{\text{ATP}}$ Succinyl-CoA
Succinyl-CoA → $\xrightarrow{\text{ATP}}$ Succinate
Succinate → $\xrightarrow{\text{ATP}}$ Malate
Malate → $\xrightarrow{\text{ATP}}$ Oxaloacetate
Oxaloacetate → $\xrightarrow{\text{ATP}}$ Citrate

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Mark Anestis, Kellie Ploeger Cox



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