

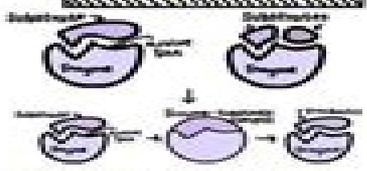
cellular energetics  
enzymes  
cellular respiration

# 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: molecules bind to binding site, competing to achieve product
- Requires shape and activity
- Non-competitive inhibition: molecules bind to allosteric sites and change enzyme shape

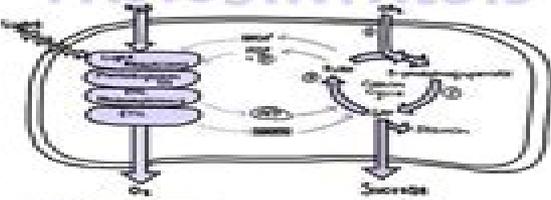


- Chloroplast - captures light, converts light, releases oxygen
- Chlorophyll a = blue-green color
- Chlorophyll b = yellow-green color
- Carotenoids: photosynthesis: photoblast
- Shows up light absorption

### Steps of Light dependent reaction

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

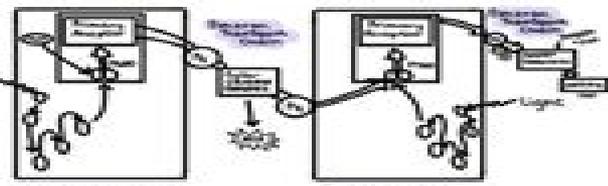
### PHOTOSYNTHESIS



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: Pq 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  $O_2$  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

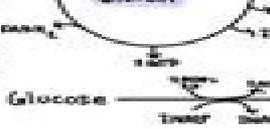
### KREBS CYCLE

- 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



PRODUCTS: 2 FADH2, 2 CO2



Chemiosmosis: a process through which protons generate ATP. Synthesis, driving ATP from ADP and inorganic phosphate

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

### FERMENTATION

- Follows glycolysis to process in the absence of oxygen, produces lactate 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 NAD+ regeneration

# Ap Biology Chapter 18 Notes

**M Walker**



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web the film featuring a cast of ted neeley carl anderson yvonne elliman barry dennen bob bingham larry marshall josh mostel kurt yaghjian and philip toubus centers on the conflict between judas and jesus 4 during the week of the crucifixion of jesus

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web movie info adapted from andrew lloyd webber and tim rice s broadway rock opera jesus christ superstar recounts the last days of jesus christ ted neeley from the perspective of judas iscariot

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