CHAPTER 10 PHOTOSYNTHESIS MACHINERY

- 6C02 + 6H20 = C6H1206 + 602
- AUTOTROPHS: ORGANISMS THAT CANNOT MAKE THEIR OWN FOOD.
- PLASTID/CHLOROPLAST
- GRANA/THYLAKOID/LIGHT DEP.RX
- STROMA/LIGHT INDEP. RX'S
- PLANT PIGMENTS/CHLOROPHYLL

Figure 10.0 Sunbeams



Figure 10.1 Photoautotrophs



Figure 10.2 Focusing in on the location of photosynthesis in a plant





Figure 10.3 Tracking atoms through photosynthesis







Figure 10.4 An overview of photosynthesis: cooperation of the light reactions and the Calvin cycle (Layer 1)

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Figure 10.4 An overview of photosynthesis: cooperation of the light reactions and the Calvin cycle (Layer 2)





Figure 10.4 An overview of photosynthesis: cooperation of the light reactions and the Calvin cycle (Layer 3)





Figure 10.5 The electromagnetic spectrum





Figure 10.6 Why leaves are green: interaction of light with chloroplasts





Figure 10.x1 Melvin Calvin









Figure 10.8 Evidence that chloroplast pigments participate in photosynthesis: absorption and action spectra for photosynthesis in an alga





Figure 10.9 Location and structure of chlorophyll molecules in plants

stack of





Hydrocarbox tail pt atoms not showing

Figure 10.10 Excitation of isolated chlorophyll by light

and it for any distance in the production of the product of the





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