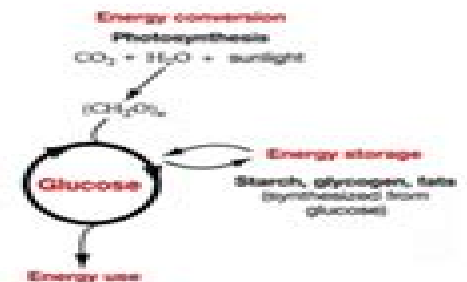
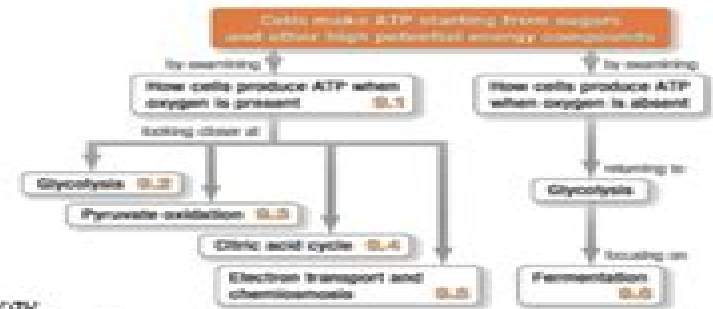


Chapter 9: Cellular Respiration and Fermentation

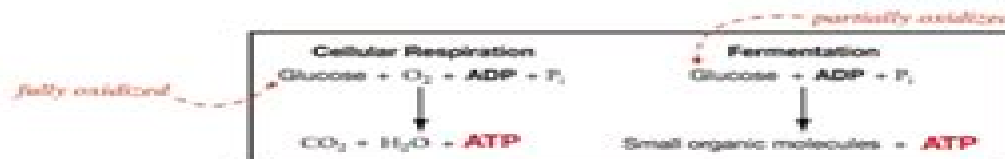
Important Background

- Cells get their energy from the nucleotide, **Adenosine Triphosphate (ATP)**
 - Key characteristics of ATP:
 - ATP has **high potential energy (PE)** → this means ATP is **unstable** and thus, **can't be stored**
 - Cells only contain enough ATP to last a few mins of normal activity
 - ATP production is **fast** → cells are constantly making new ATP all the time
 - ATP is made from the energy that is stored in the sugar **Glucose**
 - Glucose is made via **Photosynthesis**
 - Glucose is a **high-energy molecule** → aka, it contains a lot of chemical energy
 - *RECALL:** "chemical energy" refers to PE that's stored within chemical bonds
 - So you can think of glucose as a molecule that stores high amounts of energy, which can potentially be used to drive other cellular processes (like ATP synthesis)
 - Glucose monomers can be synthesized into polymers such as **Starch & Glycogen**
 - Starch & glycogen are called "storage carbohydrates" because they contain glucose + all of it's stored energy
 - Metabolic pathways (discussed in this chapter) break these storage carbohydrates down into their glucose monomers → releases all the stored chemical energy
 - The released energy is then used to transfer a phosphate group to **Adenosine Diphosphate (ADP)**, thus generating ATP
- *REMEMBER:** The prefix refers to the # of inorganic phosphorus (P) atoms:
 "di —" = 2 P (as in ADP)
 "tri —" = 3 P (as in ATP)



9.1 Overview of Cellular Respiration

- Glucose = **most common source of energy** → plants/animals store glucose & oxidize it to provide chemical energy in the form of ATP
 - Storage carbohydrates (like starch & glycogen) act like a "savings account" for chemical energy, and ATP is like cash
 - To withdraw chemical energy from the savings, storage carbohydrates must be hydrolyzed (broken down) into their glucose monomers
 - Glucose is then **oxidized** through a series of **controlled redox reactions**. The released free energy is used to synthesize ATP via:
 - CELLULAR RESPIRATION**
 - FERMENTATION**
- *Difference between these 2 processes:
The degree to which they oxidize glucose*
- Fermentation does **NOT** fully oxidize glucose
 - Instead, fermentation produces small reduced organic molecules which are released as waste from the cell
 - Cellular respiration **completely oxidizes** glucose into **carbon dioxide (CO₂)** and water
 - *Cellular respiration **releases MORE ENERGY** than fermentation! This means more energy is released when glucose is **FULLY** oxidized (as in C.R.) compared to when it is only **PARTIALLY** oxidized (as in fermentation)



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Arshad Iqbal



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