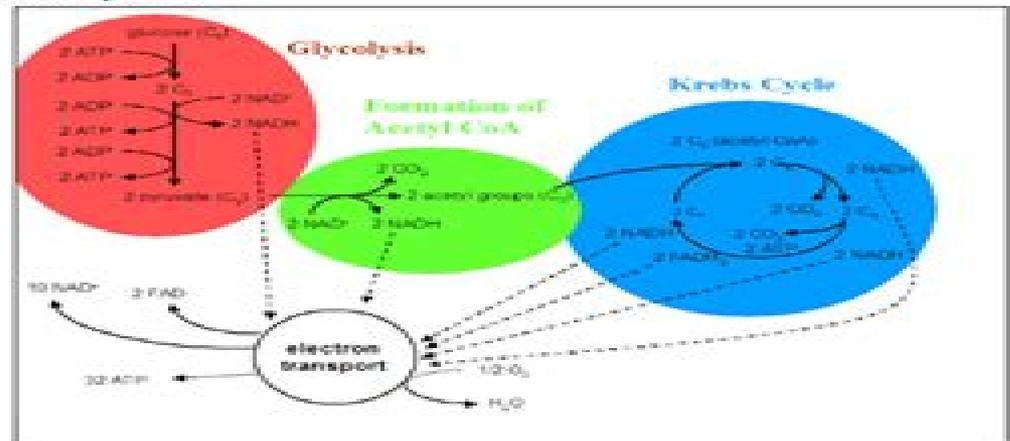
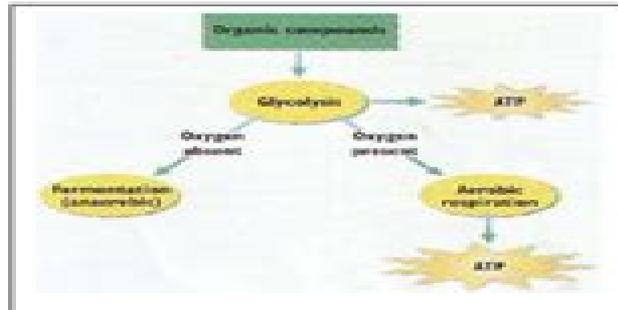


# AP BIOLOGY – CHAPTER 7 Cellular Respiration Outline

## I. How cells get energy:

### A. Cellular Respiration

1. **Cellular respiration** includes the various metabolic pathways that break down carbohydrates and other metabolites and build up ATP.



2. Cellular respiration requires oxygen and gives off CO<sub>2</sub>.
3. Aerobic respiration usually breaks down glucose into CO<sub>2</sub> and H<sub>2</sub>O.
4. Overall equation for complete breakdown of glucose requires oxygen (is aerobic):  

$$C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{energy}$$
5. Glucose is high-energy molecule; CO<sub>2</sub> and H<sub>2</sub>O are low-energy molecules; process is exergonic and releases energy.
6. Electrons are removed from substrates and received by oxygen, combines with H<sup>+</sup> to become water.
7. Glucose is oxidized and O<sub>2</sub> is reduced.
8. Buildup of ATP is an endergonic reaction that requires energy.
9. Pathways of aerobic respiration allow energy in glucose to be released slowly; ATP is produced gradually.
10. Rapid breakdown of glucose would lose most energy as non-usable heat.
11. Breakdown of glucose yields synthesis of 36 or 38 ATP; this preserves 39% of energy available in glucose.

### B. NAD<sup>+</sup> and FAD

1. Each metabolic reaction in cellular respiration is catalyzed by its own enzyme.
2. As a metabolite is oxidized, NAD<sup>+</sup> accepts two electrons and a hydrogen ion (H<sup>+</sup>); results in NADH + H<sup>+</sup>.
3. Electrons received by NAD<sup>+</sup> and FAD are high-energy electrons and are usually carried to the electron transport system.
4. NAD<sup>+</sup> is a coenzyme of oxidation-reduction since it both accepts and gives up electrons.
5. Only a small amount of NAD<sup>+</sup> is needed in cells; each NAD<sup>+</sup> molecule is used over and over.
6. FAD coenzyme of oxidation-reduction can replace NAD<sup>+</sup>; FAD accepts two electrons, becomes FADH<sub>2</sub>.

This is only a general outline. There is much that has been discussed and presented in lecture that is not included in this outline. All material discussed in lecture is test-material whether or not it is included in this outline.

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**SB Merriam**



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contains three components 1 description of the procedural tasks commonly performed for the critically ill patient 2 explanation of the most common pathophysiologic states encountered and 3 description of specific disease entities with details of their differential diagnosis diagnostic strategy and therapeutic plan This book also uses several educational approaches that we have found useful in our own teaching sessions and prior textbooks Clinical cases introduce chapters and highlight chapter segments to emphasize clinical relevancy As an additional study aid margin notes highlight important teaching points and facilitate easy review of chapter content To consolidate the principles outlined in each chapter review questions with full text explanations are provided at the end of each chapter All these elements help reinforce the most important messages for the reader

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