

# Chapter 8: Microbial Metabolism

This is a short outline of the main points of the chapter. It is meant as a framework to help you in your study, however, it is not a comprehensive list of everything you need to know. Anything covered in lecture and your textbook is potential material for exams.

## Study Questions

- What is the difference between an oxidation and a reduction reaction?
- List the 3 methods by which ADP can be phosphorylated (charged) to form ATP.
- Define the terms enzyme, substrate and active site.
- List the 4 environmental conditions that can influence the rate of a reaction.
- List the 5 major steps of cellular respiration in order. Which step generates the most ATP?
- List the 2 major steps of fermentation in order. Which step generates the most ATP?
- List the 2 alternative pathways to glycolysis. What is the trade-off (cost & benefit) for using one of these pathways instead of glycolysis?
- List the 2 steps that must occur before a lipid can be used for cellular respiration.
- List the 2 steps that must occur before a protein can be used for cellular respiration.
- What are the 2 major parts of a photosystem? Where are photosystems located?
- List the 2 major steps of photosynthesis in order.
- What is the difference between linear and cyclic photophosphorylation (both structures used and byproducts generated)?

## Brief Outline of Lecture Topics:

- Metabolism basics
  - Catabolic vs. anabolic
  - Exergonic vs. endergonic
  - Redox Reactions
    - Reduction reactions vs. oxidative reactions
  - Electron carriers
    - NAD<sup>+</sup>
    - NADP<sup>+</sup>
    - FAD
  - Energy carriers
    - Nucleotide triphosphates:
      - ATP
      - GTP
    - Phosphorylating (recharging) energy carriers (ADP/GDP)
      - Substrate level phosphorylation

# **Microbial Metabolism Study Guide With Answers**

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