

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⁺
 - NADP⁺
 - FAD
 - Energy carriers
 - Nucleotide triphosphates:
 - ATP
 - GTP
 - Phosphorylating (recharging) energy carriers (ADP/GDP)
 - Substrate level phosphorylation

Microbial Metabolism Study Guide With Answers

Clemens Wendtner



Microbial Metabolism Study Guide With Answers:

Whispering the Secrets of Language: An Emotional Quest through **Microbial Metabolism Study Guide With Answers**

In a digitally-driven earth wherever monitors reign great and instant interaction drowns out the subtleties of language, the profound secrets and emotional subtleties concealed within phrases frequently move unheard. However, situated within the pages of **Microbial Metabolism Study Guide With Answers** a fascinating literary prize pulsing with natural feelings, lies an exceptional quest waiting to be undertaken. Published by a skilled wordsmith, that enchanting opus attracts visitors on an introspective journey, lightly unraveling the veiled truths and profound influence resonating within ab muscles cloth of every word. Within the mental depths of this poignant review, we shall embark upon a genuine exploration of the book is key subjects, dissect their interesting publishing model, and yield to the strong resonance it evokes heavy within the recesses of readers hearts.

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