

## Ch.6 Bacterial Metabolism: Fueling Cell Growth Study Guide

1. In this chapter, we will focus on how bacteria (e.g., human microbiota and pathogen) obtain energy to make ATP by catabolizing glucose and other sugars. Are these organisms chemoorganotrophs or chemolithotrophs? Explain by defining the chemical energy sources of these types of organisms.
2. Define the terms catabolic vs anabolic pathways, and explain how one depends on the other.
3. Give several important applications of knowledge about bacterial metabolism.
4. Define and distinguish between catabolic vs anabolic pathways of metabolism. Which includes pathways that require an input of ATP? Which includes pathways that release energy, and use that energy to make ATP?
5. Explain how molecules undergo reactions and explain the meaning of the activation energy ( $E_{act}$ ) of a reaction.
6. Explain the role of enzymes in each chemical reaction in a living cell. Explain how enzyme activity affects the  $E_{act}$  of a reaction, and consequently the rate of the reaction? Define substrate(s) for a reaction.
7. Describe enzyme structure and specificity. Explain the events that occur in an enzyme-catalyzed reaction (include active site, reactant(s) and products).
8. What occurs when enzymes are denatured, and how is the cell affected? As temperature increases, why do reaction rates initially increase, and then rapidly decline? How do changes in pH affect enzymes?
9. Define cofactors and explain their role in enzyme activity. Differentiate between organic cofactors (i.e., coenzymes) and inorganic cofactors, and give examples.
10. Explain how a competitive enzyme inhibitor prevents a reaction.
11. Describe the metabolic pathway inhibited by sulfonamide (sulfa drugs), and why it is necessary for bacterial growth. Explain how sulfonamide inhibits this pathway. Explain why sulfonamide is not effective against a bacterial infection if taken at lower than the prescribed dose.
12. What is ATP, and why does it need to be made continually in order for bacteria to grow? Write the reactions of ATP hydrolysis and ATP synthesis (phosphorylation). Which requires an input of energy, and which releases energy for anabolism and other types of cell work?
13. Explain substrate-level phosphorylation vs. oxidative phosphorylation.
14. Define what happens to a molecule when it undergoes oxidation vs reduction. Describe how you can tell whether an organic compound becomes oxidized or reduced in a biochemical reaction or pathway.
15. In a pathway of glucose catabolism, does glucose get oxidized or reduced? Explain the role of a glucose catabolism pathway in bacterial growth.
16. What is the role of the electron donor in an energy-releasing catabolic pathway. What type of compound does a chemoorganotroph vs. a chemolithotroph use as an electron donor?
17. Define  $NAD^+$ / $NADH$  (and  $FADH/FADH_2$ ) and explain the roles of these compounds in energy-releasing catabolic pathways. Which is the oxidized and which is the reduced form of these compounds? Which provides reducing power in metabolism, and what does this mean?

# Bio Guide Ch 6 Answers

**Kenneth W. Raymond**



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