

Study guide:
Energy (Ch 3 and 4)

1. What is Free Energy? (ΔG)
2. What does it tell you?
3. How does it relate to entropy?
4. What is Std. Free Energy? (ΔG°)
5. How does ΔG° relate to the equilibrium constant and what is equilibrium?
6. What is the equation that relates ΔG to ΔG° and the concentrations of reactants and products?
7. How are reactions with a $+\Delta G$ coupled to reactions with a $-\Delta G$?
8. How can you tell if a reaction with a $+\Delta G$ can be coupled to a reaction with a $-\Delta G$?
9. What do enzymes do?
10. What are high energy reaction intermediates?
11. What are activated carriers? (know the ones we discussed)
12. What are anabolism and catabolism?
13. Glycolysis, Citric acid cycle, Electron transport (chemiosmotic coupling and oxidative phosphorylation)
 - What does each process accomplish?
 - What are the starting molecules and end products of each?
 - Where in the cell does each process occur?
 - Eukaryotes?
 - Prokaryotes?
 - How are activated carriers generated and used? (know examples we discussed)
 - What is fermentation?

Energy In A Cell Study Guide

Michael Brown



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