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## **CHAPTER 5**

### **AEROBIC RESPIRATION AND THE MITOCHONDRION**

#### **OBJECTIVES**

- Clarify the overall mitochondrial structure and its role in mitochondrial function.
- Describe the structures of the inner and outer mitochondrial membranes.
- Describe the composition of the mitochondrial matrix.
- Review and emphasize the processes of glycolysis and anaerobic fermentation.
- Elucidate the steps involved in the entrance of pyruvate carbons into the Krebs Cycle and the reactions performed in that cycle.
- Emphasize the role of the electron transport system in establishing a proton gradient across the inner mitochondrial membrane.
- Describe the chemiosmotic mechanism and its role in cellular energy transduction.
- Elucidate the proposed mechanisms by which proton gradients are established.
- Contrast the different types of electron transport molecules and complexes.
- Clarify the possible mechanisms by which protons may be transported to the intermembrane space.
- Describe the proposed mechanisms by which ATP synthase may convert ADP and P<sub>i</sub> to ATP.
- Emphasize the roles of the proton-motive force other than ATP synthesis.
- Discuss the control of respiration.
- Discuss the role of mitochondria in heat production and how this role is accomplished.
- Describe the mechanisms by which proteins are imported into mitochondria.
- Elucidate the structure and function of peroxisomes and glycosomes.

#### **LECTURE OUTLINE**

##### **A Brief History of Life on Earth**

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**G. Karp**

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