

## Chapter 25: The History of Life on Earth

- 25.1 Describe steps by which simple cells may have originated from nonliving materials.
- 25.2 Explain what fossils are, how they are dated, and what the fossil record can reveal about life's history.
- 25.3 Identify when the origin of single and multicelled organisms and the colonization of land occurred, and explain the significance of these events.
- 25.4 Explain how plate tectonics, mass extinctions, and adaptive radiations have affected Earth's life.
- 25.5 Describe how changes in the sequence or regulation of genes can result in major changes in body form.
- 25.6 Use examples to show how novel and complex structures can arise by descent with modification.

How could the first organic molecules have formed? What were the earliest life-forms? How did eukaryotic cells evolve? How did life move from the water to land? This chapter looks at evidence to support hypotheses about the origins and development of life on Earth. Pay attention to the many ways the history of life on our planet is explained by natural processes.

**Study Tip:** At the very end of this chapter we have placed a timeline to complete as you work through this chapter, *The History of Life on Earth*. Follow the instructions under the Study Tip on p. 525 of your text but add additional significant events as they are explained.

1. The fossils of a whale in the Sahara Desert shown in Figure 25.1 in your text are an incredible find. The fossil record shows a pattern of how life changes on Earth much like the phylogenetic tree in the figure. Use the figure to answer the following:
  - a. How many lineages from the phylogenetic tree end in extinction?
  - b. What is the relationship between where a fossil is found in rock strata and its position on the phylogenetic tree?
  - c. What are three large-scale processes that cause changes in the organisms on Earth over time?
  - d. What happens during an *adaptive radiation*?

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