

# Chapter 6

## **A Tour of the Cell**

### ***Lecture Outline***

#### **Overview: The Fundamental Units of Life**

- All organisms are made of *cells*.
  - Many organisms are single-celled.
- The cell is the simplest collection of matter that can live.
- Even when arranged into higher levels of organization, such as tissues and organs, cells are an organism's basic units of structure and function.
- Life at the cellular level arises from structural order, reflecting emergent properties and the correlation between structure and function.
  - The movement of an animal cell depends on the intricate interplay of the structures that make up a cellular skeleton.
  - Organisms interact with their environment; cells sense and respond to environmental fluctuations.
- Evolution is the unifying biological theme; all cells are related by their descent from earlier cells but have been modified in various ways during the history of life on Earth.

#### **Concept 6.1 To study cells, biologists use microscopes and the tools of biochemistry.**

- The discovery and early study of cells progressed with the invention of microscopes in 1590 and their improvement in the 17th century.
- Microscopes vary in magnification and resolving power, or resolution.
  - *Magnification* is the ratio of an object's image to its real size.
  - *Resolution* is a measure of image clarity. It is the minimum distance two points can be separated and still be distinguished as two separate points.
  - Resolution is limited by the shortest wavelength of the radiation used for imaging.
- In a **light microscope (LM)**, visible light passes through the specimen and then through glass lenses.
  - The lenses refract light so that the image is magnified into the eye or onto a video screen.
  - The minimum resolution of an LM is about 200 nanometers (nm), the size of a small bacterium.

# Ap Bio Chapter 9 Outline

**Daniel F McAuley**



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