

# 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

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Finkler, Ronald J. Brooks**



## **Ap Bio Chapter 9 Outline:**

## Enjoying the Track of Term: An Emotional Symphony within **Ap Bio Chapter 9 Outline**

In a global consumed by monitors and the ceaseless chatter of instant communication, the melodic beauty and mental symphony created by the published term often disappear in to the background, eclipsed by the persistent noise and disturbances that permeate our lives. But, located within the pages of **Ap Bio Chapter 9 Outline** a stunning literary treasure filled with fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by a masterful musician of language, this charming masterpiece conducts viewers on an emotional trip, well unraveling the concealed tunes and profound impact resonating within each cautiously crafted phrase. Within the depths with this moving evaluation, we can investigate the book is key harmonies, analyze its enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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