

# GENERAL BIOLOGY 1

## Cell: Theory, Structure and Function

What are cells?

- Cells are the basic building blocks of all living things.
- The human body is composed of trillions of cells.
- They provide structure for the body, take in nutrients from food, convert those nutrients into energy, and carry out specialized functions.
- Cells also contain the body's hereditary material and can make copies of themselves.

## Cell Theory

**Robert Hooke** improved the design of the existing compound microscope in **1665**.

- His microscope used three lenses and a stage light, which illuminated and enlarged the specimens. These advancements allowed Hooke to see something wondrous when he placed a piece of cork under the microscope. Hooke detailed his observations of this tiny and previously unseen world in his book, *Micrographia*. To him, the cork looked as if it was made of tiny pores, which he came to call **"cells"** because they reminded him of the cells in a monastery.

**Antonie van Leeuwenhoek** a dutch scientist in **1674**

- published his observations on tiny living organisms which he named animalcules.
- was the first to observe under his microscope the structure of a red blood cell of different animals as well as a sperm cell.

The leading botanists in his time, **Robert Brown** in **1831**

- was able to compare diverse kinds of plant specimens under the microscope.
- He markedly indicated that there is a common thing about them-they are all composed of cells, and inside the cell is a dark dense spot which he termed as the **nucleus**.

German botanist **Matthias Schleiden** (**1838**)

- concluded that all plant parts are made of cells.

**Theodor Schwann** (**1839**),

- botanist and a close friend of Schleiden,
- stated that all animal tissues are composed of cells.
  - In 1855, the third tenet of Schwann were replaced by the Rudolph Virchow's powerful dictum, *Omnis cellula e cellula*, "All cells only arise from pre-existing cells".

The discoveries made by **Hooke**, **Leeuwenhoek**, **Schleiden**, **Schwann**, **Virchow**, and others led to the formulation of the cell theory. This theory can be summed up into three basic components:

- (1) all living things are composed of one or more cells;
- (2) the cell is the basic unit of life;
- (3) all cells arise from preexisting cells.

# 2nd Semester General Biology Study Guide Answers

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## **Table of Contents 2nd Semester General Biology Study Guide Answers**

1. Understanding the eBook 2nd Semester General Biology Study Guide Answers
  - The Rise of Digital Reading 2nd Semester General Biology Study Guide Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying 2nd Semester General Biology Study Guide Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 2nd Semester General Biology Study Guide Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2nd Semester General Biology Study Guide Answers
  - Personalized Recommendations
  - 2nd Semester General Biology Study Guide Answers User Reviews and Ratings
  - 2nd Semester General Biology Study Guide Answers and Bestseller Lists
5. Accessing 2nd Semester General Biology Study Guide Answers Free and Paid eBooks
  - 2nd Semester General Biology Study Guide Answers Public Domain eBooks
  - 2nd Semester General Biology Study Guide Answers eBook Subscription Services
  - 2nd Semester General Biology Study Guide Answers Budget-Friendly Options

6. Navigating 2nd Semester General Biology Study Guide Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - 2nd Semester General Biology Study Guide Answers Compatibility with Devices
  - 2nd Semester General Biology Study Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 2nd Semester General Biology Study Guide Answers
  - Highlighting and Note-Taking 2nd Semester General Biology Study Guide Answers
  - Interactive Elements 2nd Semester General Biology Study Guide Answers
8. Staying Engaged with 2nd Semester General Biology Study Guide Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 2nd Semester General Biology Study Guide Answers
9. Balancing eBooks and Physical Books 2nd Semester General Biology Study Guide Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 2nd Semester General Biology Study Guide Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine 2nd Semester General Biology Study Guide Answers
  - Setting Reading Goals 2nd Semester General Biology Study Guide Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2nd Semester General Biology Study Guide Answers
  - Fact-Checking eBook Content of 2nd Semester General Biology Study Guide Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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