

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, different animals as well as a sperm cell.

The leading botanist 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.

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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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