

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.

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Resource Guide for General Biological Science Atlanta (Ga.). Board of Education,1951 **The New Biology** Ray Koppelman,1962 **Quarterly Bulletin** Nebraska. State Teachers College, Kearney,1939 *Health Occupations Education Instructional Materials* Ohio State University. Center for Vocational and Technical Education,1972

Explorations in Basic Biology Stanley E. Gunstream,John Stanley Babel,1978 Designed for use in the laboratory component of introductory general biology courses this lab manual contains 41 exercises that will allow students to work independently from the professor to enhance learning Each exercise in this lab manual States learning objectives Describes necessary background information to prepare students for the activities that will follow Lists the required material for each activity in the exercise Provides a laboratory report for each exercise so students can record observations data and conclusions The six diversity exercises include a minipracticum section on each laboratory report so students are challenged to identify organisms based on the recognition of characteristics Book jacket *The Macmillan Guide to Correspondence Study* Modoc Press,1996 *The Publishers' Trade List Annual* ,1973 Catalogue of the Officers and Students Berea College,1940 **General Catalogue** Berea College,1945 The Role of Genetics in Students' Understanding of Biological Evolution M. Frances Rowe,2001 *Biology* Edward C. Gruber,1963 University of Michigan News-letter ,1898

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The book delves into 2nd Semester General Biology Study Guide Answers. 2nd Semester General Biology Study Guide Answers is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into 2nd Semester General Biology Study Guide Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to 2nd Semester General Biology Study Guide Answers
 - Chapter 2: Essential Elements of 2nd Semester General Biology Study Guide Answers
 - Chapter 3: 2nd Semester General Biology Study Guide Answers in Everyday Life
 - Chapter 4: 2nd Semester General Biology Study Guide Answers in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, this book will delve into the foundational concepts of 2nd Semester General Biology Study Guide Answers. This chapter will elucidate the essential principles that need to be understood to grasp 2nd Semester General Biology Study Guide Answers in its entirety.
 4. In chapter 3, this book will examine the practical applications of 2nd Semester General Biology Study Guide Answers in daily life. This chapter will showcase real-world examples of how 2nd Semester General Biology Study Guide Answers can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of 2nd Semester General Biology Study Guide Answers in specific contexts. This chapter will explore how 2nd Semester General Biology Study Guide Answers is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about 2nd Semester General Biology Study Guide Answers. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of 2nd Semester General Biology Study Guide Answers.

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