

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

Ying Liu



2nd Semester General Biology Study Guide Answers:

2nd Semester General Biology Study Guide Answers: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year.

2nd Semester General Biology Study Guide Answers : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph.

2nd Semester General Biology Study Guide Answers : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is an exceptional and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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