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MICROSCOPE

VOLUME - 1 | ISSUE - 5

BY FARIHA ZAMAN

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Welcome to

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your Question Of the last Month

What is
Consciousness?



Here's the Answer

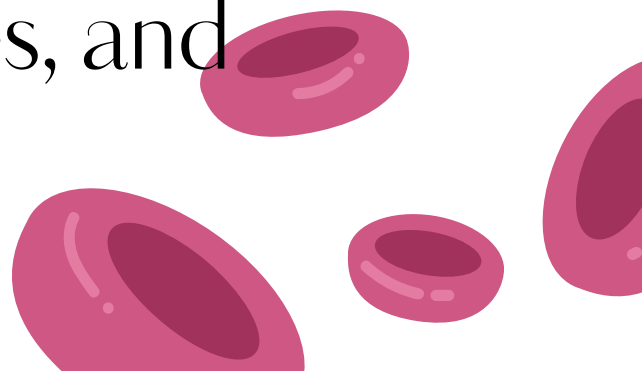
Consciousness is a complex and multifaceted phenomenon that has been studied by philosophers, psychologists, and neuroscientists for centuries.

A decorative border of yellow flowers and green leaves surrounds the text. The flowers are stylized with multiple petals and green centers, and the leaves are small and pointed.

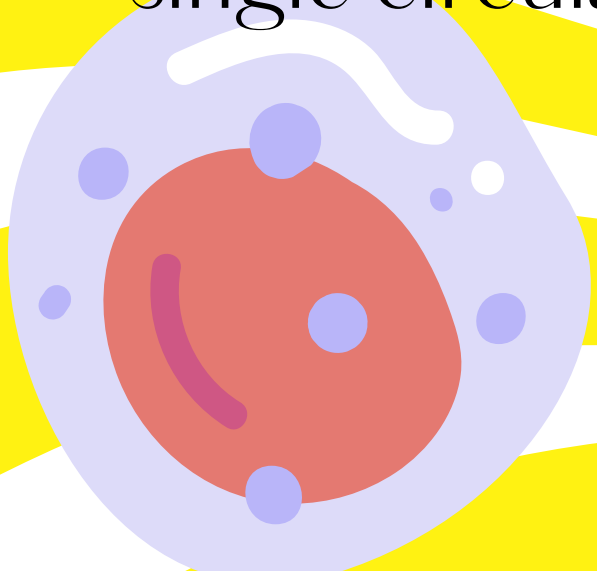
Cell

Cells are the fundamental units of life and are the basic building blocks of all living organisms. They are incredibly diverse in structure and function, but all cells share certain common features. At the most basic level, cells consist of a plasma membrane that encloses a watery cytoplasm, which contains various organelles and other cellular components.

The plasma membrane is a thin, flexible layer that separates the internal environment of the cell from its external environment and regulates the flow of materials in and out of the cell. Inside the cytoplasm, various organelles perform specific functions such as energy production, protein synthesis, and waste disposal. These include mitochondria, ribosomes, endoplasmic reticulum, Golgi apparatus, lysosomes, and peroxisomes.




Cells come in two broad categories: prokaryotic and eukaryotic. Prokaryotic cells are found in bacteria and archaea, and they are generally smaller and simpler in structure than eukaryotic cells. They lack a nucleus and other membrane-bound organelles, and their DNA is typically found in a single circular chromosome.








Eukaryotic cells, on the other hand, are found in plants, animals, fungi, and protists. They are larger and more complex than prokaryotic cells and have a variety of specialized organelles, including a nucleus that houses the cell's genetic material (DNA) and a variety of membrane-bound organelles that carry out specific functions.





Overall, the study of cells
(cell biology or cytology) is
an essential part of
understanding how living
organisms function and
how they respond to
changes in their
environment.



Cells are involved in a wide range of processes that are essential for life, including metabolism, growth, reproduction, and response to environmental stimuli. They can communicate with each other through chemical signals and can work together to form tissues, organs, and entire organisms.



One of the key features of cells is their ability to reproduce. Cells can divide through a process called mitosis, which results in two genetically identical daughter cells. This process is essential for growth and repair in multicellular organisms.



Cells also contain genetic material in the form of DNA, which carries the instructions for the development, function, and reproduction of living organisms. DNA is organized into structures called chromosomes, which are located in the nucleus in eukaryotic cells and in the cytoplasm in prokaryotic cells

Thank you

Instagram:

@wonders_under_the_microscope

