

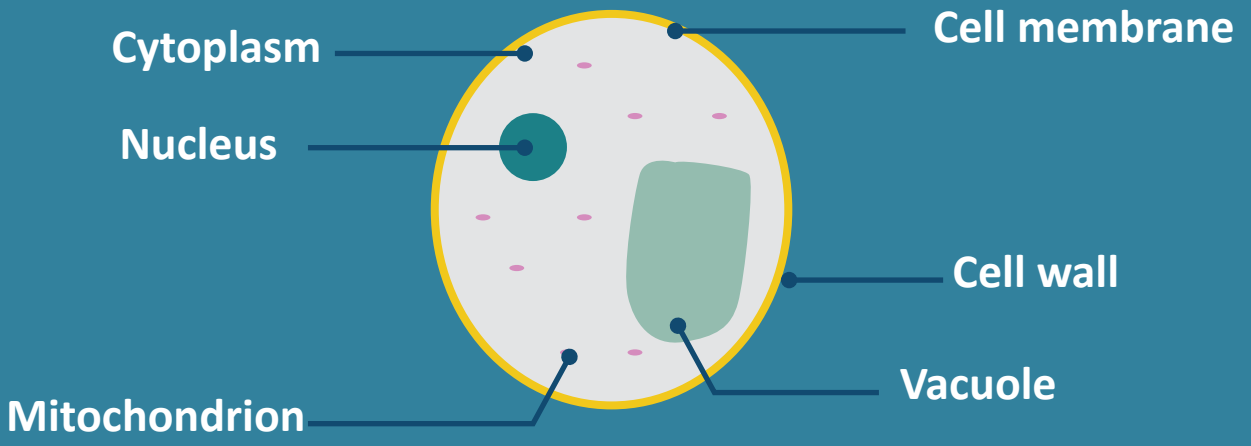
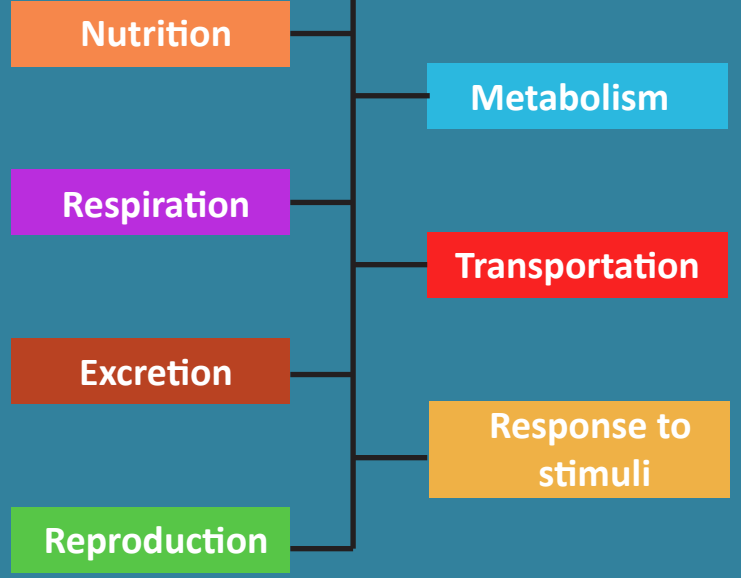
Cell & Cell Theory

Cell:- The building blocks & basic unit of life

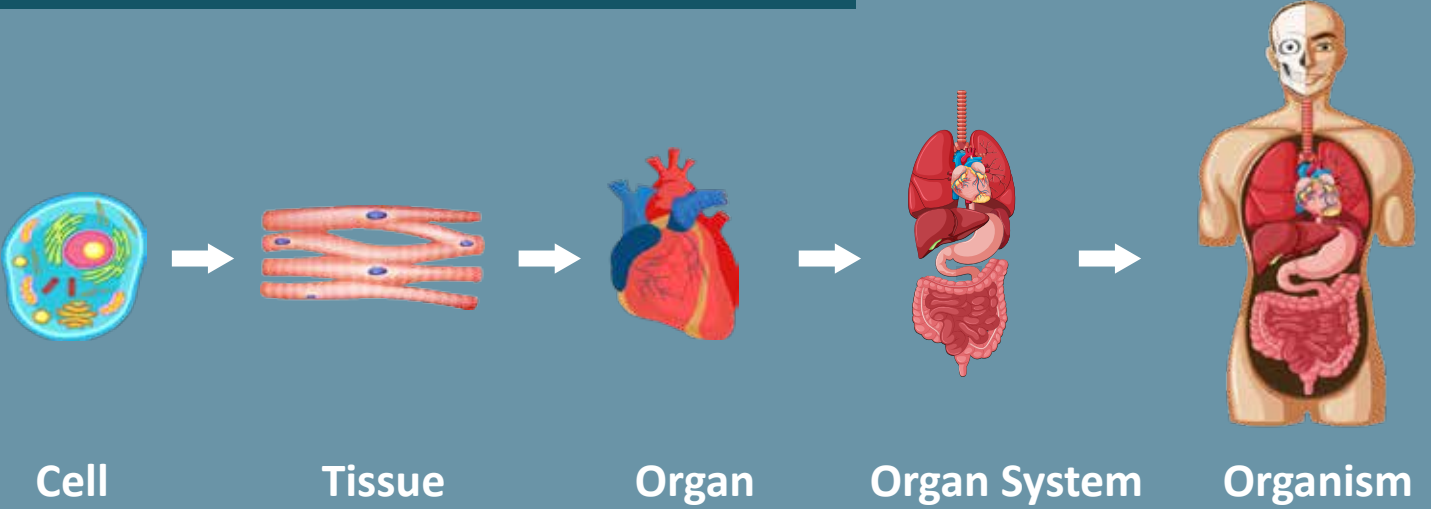
Features of a Cell

- * Smallest biological, structural & functional unit of life
- * Organisms may be unicellular or multicellular
- * Cells are the building blocks of organisms
- * Cells cluster up to form tissues that form organs, organs form organ system that form an organism

Functions of a Cell



Structural Organisation of an Organism



Discovery of Cell



Robert Hooke

- * Robert Hooke coined the term 'Cells'
- * Observed dead cork cells under microscope



Anton van Leeuwenhoek

- * Live cells were first observed by Anton van Leeuwenhoek

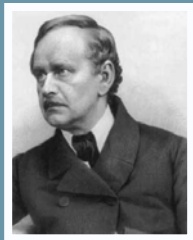


Robert Brown

- * Robert Brown discovered nucleus
- * It is the driving engine of a cell

Cell Theory

* Matthias Jacob Schleiden stated cells are building blocks of all plants in 1838.



* Theodor Schwann in 1839 stated that cells make up animals.



* This led to 'Cell Theory' that stated cells are the basic unit of all living organisms.

* Rudolf Virchow stated in German 'Omnis cellula e cellula' which means cells arise from already existing cells.



Cell Theory

- * The cell is the basic structural and functional unit of all living organisms.
- * All living organisms (plants & animals) are made up of cells.
- * All cells arise from pre-existing cells.