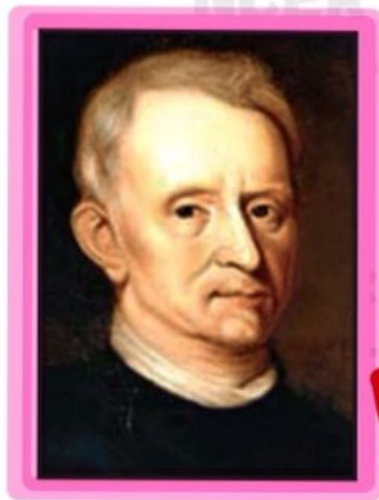


THE FUNDAMENTAL UNIT OF LIFE

→ What are living organisms made of?



- The Basic, Structural and Functional Units of life is Cell.
- Discovered by Robert Hook in 1665

Robert Hook

→ Cell Theory



All plants are made of cells.

Matthias Schleiden



All animals are made of cells.

Theodore Schwann



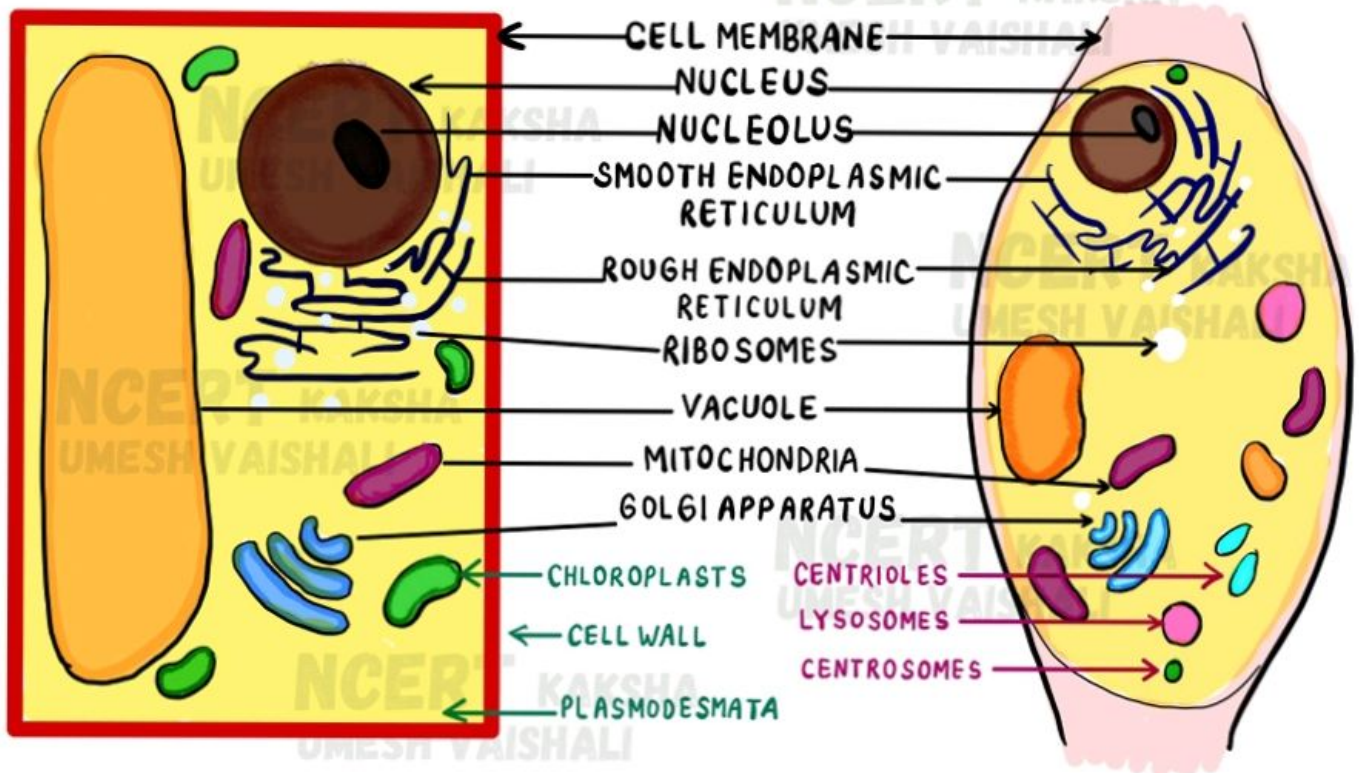
- All cells come from pre-existing cell.
- All living things are composed of cells.
 - Cells are the basic structural and functional units.
 - New cells are produced from existing cells.

Rudolf Virchow

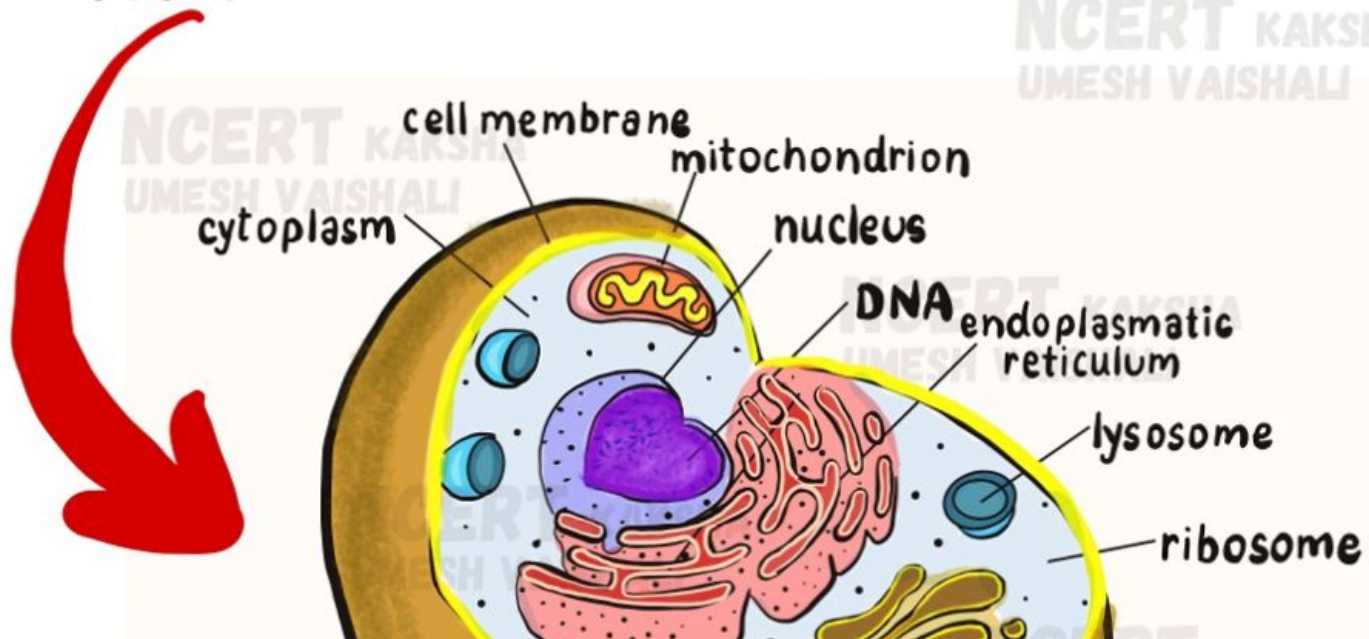
→ Eukaryotic Cell

Plant Cells

Animal Cell



→ A Cell

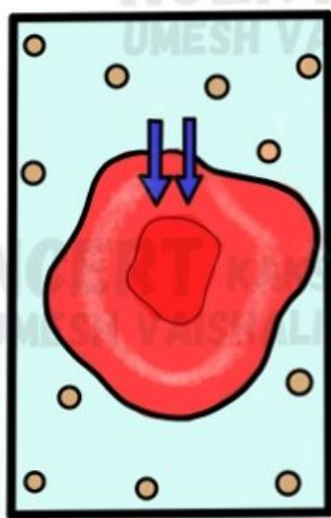


Types of Solutions

Hypotonic

Hypo = Less

Tonic = Strength

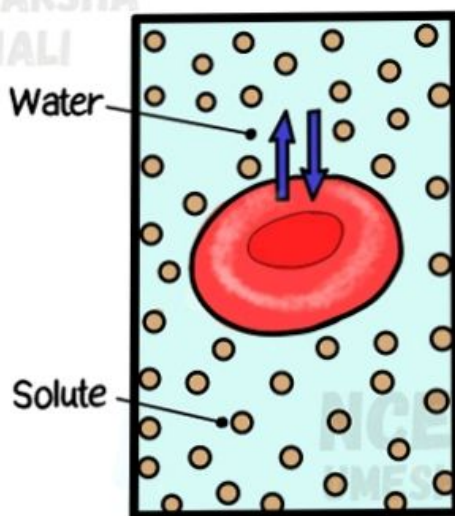


Outside $<$ Inside
LOWER
concentration

Isotonic

Iso = Same

Tonic = Strength

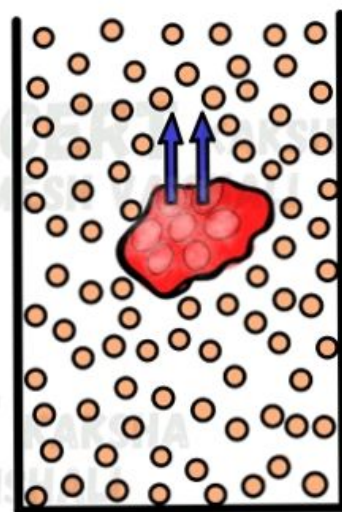


Outside $=$ Inside
EQUAL
concentration

Hypertonic

Hyper = More

Tonic = Strength



Outside $>$ Inside
HIGHER
concentration

- Movement from high concentration to low concentration.

Cytoplasm



→ Function :

- Organelles float in cytoplasm, helps in movement.