

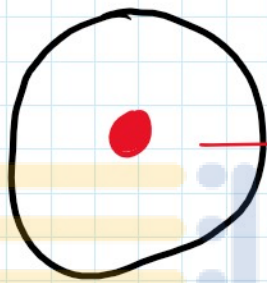
NUCLEUS

Central Controller
Brain of cell
Heart of cell

Greek → Karyon = Central Commander

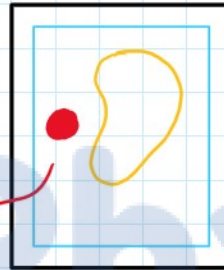
Robert Brown → 1831 Discovered in Orchid cell

- Nucleus (Karyon)
 - Prokaryotic Cell → Absent
 - Eukaryotic cell → Present
- RBC (No Nucleus)



Animal Cell

Central Position
Peripheral position



Plant cell

Animal Cell (Peripheral Nucleus)

Skeletal muscle cells.

Self Replicating Organelle
(Pre-existing nucleus make new one)

RBC

(Enucleated)

→ Exit of Nucleus

→ No Nucleus

→ OSTEOCLAST

→ Opalina

PHLOEM

→ No Nucleus

EPITHELIUM

→ Mononucleated

→ Single Nucleus

PARAMECIUM

→ Binucleated cells

→ Two Nucleus

* **Dikaryotic cells** (Fungi)

→ Nucleus from two different cell.

No. of Nucleus (3-5)

Multinucleated/Polynucleated

SHAPE OF NUCLEUS

SPHERICAL

Epithelial cells

ELLIPSOIDAL

muscle cells

myocyte

LOBULAR

→ Basophil

→ Neutrophils

→ Eosinophils

→ CELL CYCLE

Interphase

(Nucleus Appear)

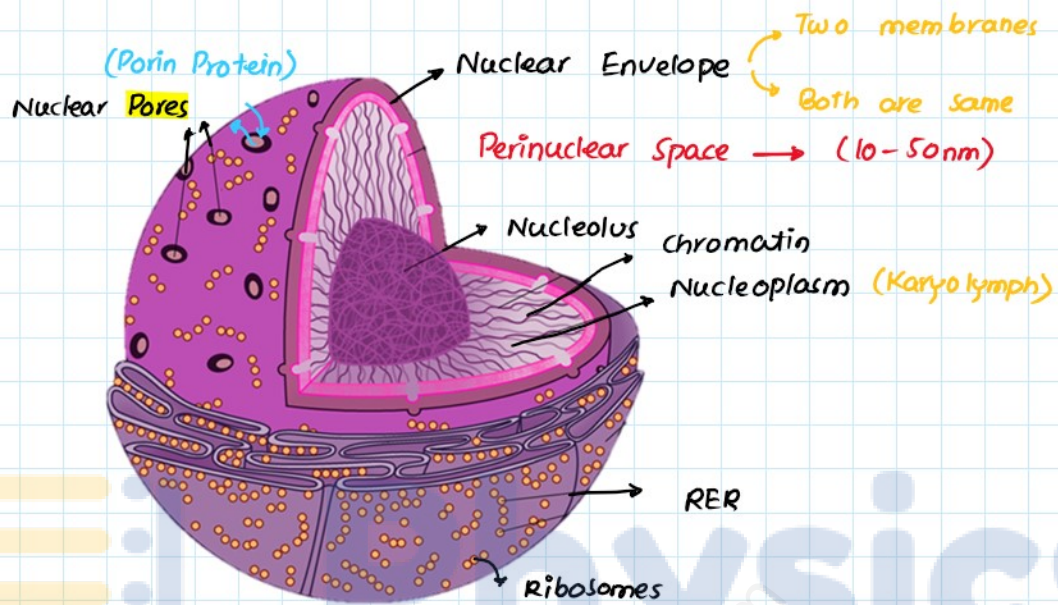
M-phase

(Division of Nucleus)

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