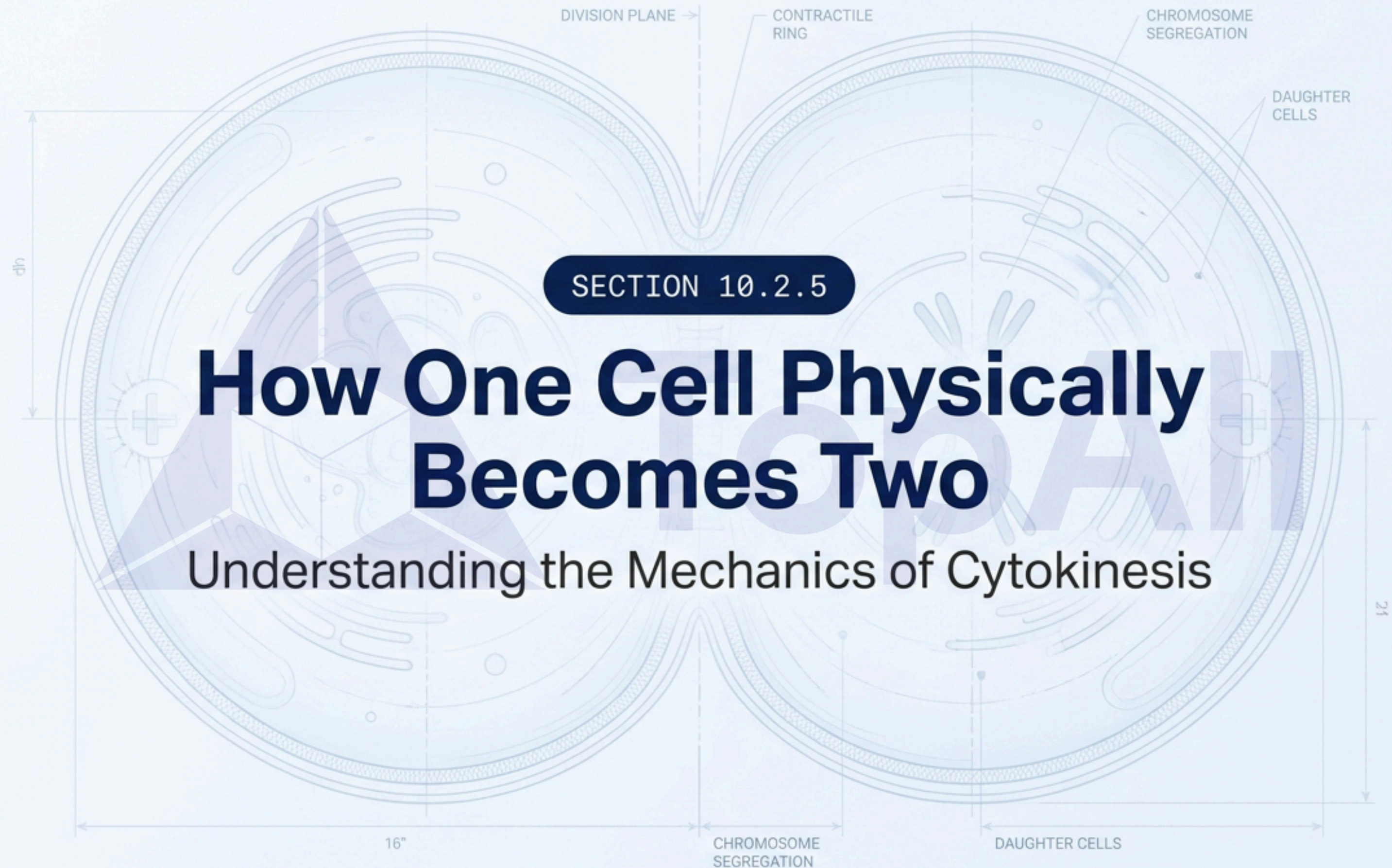




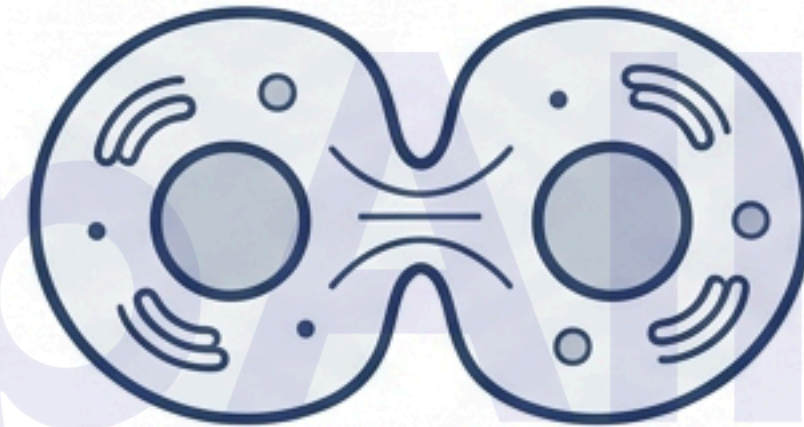
Completing the Division

Karyokinesis



The segregation of duplicated chromosomes into daughter nuclei.

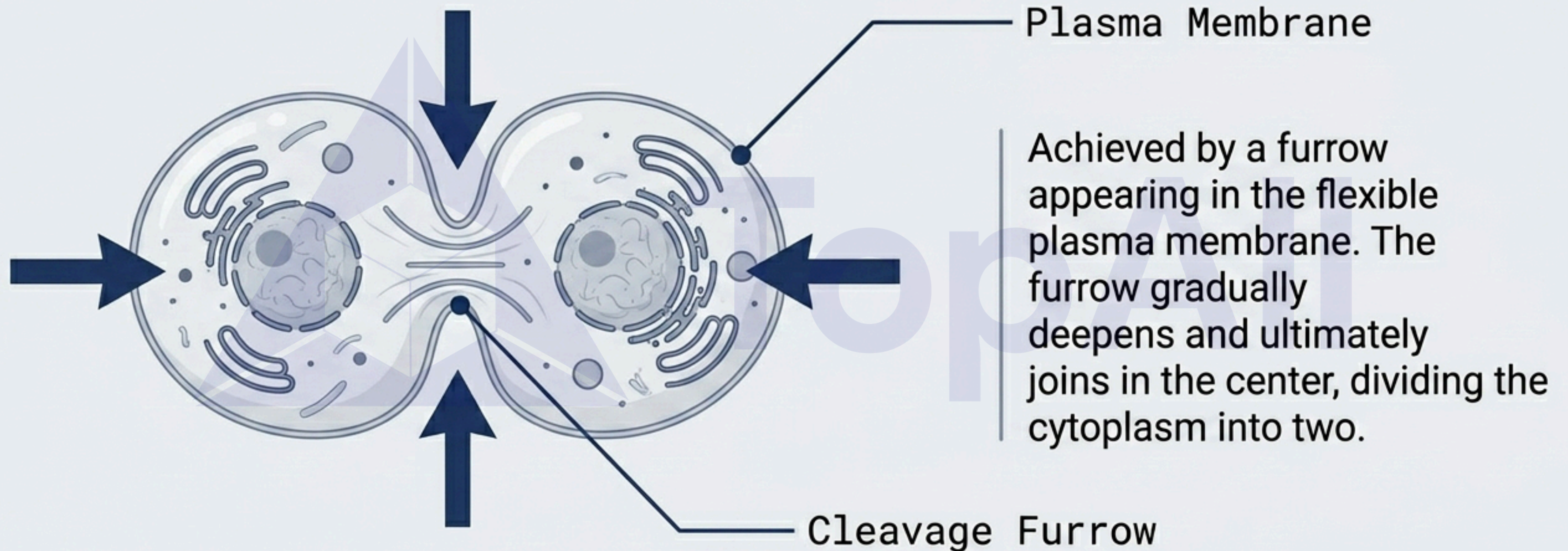
Cytokinesis



The physical separation of the cytoplasm, completing cell division.

Karyokinesis + Cytokinesis = Complete Mitosis

Animal Cells: The Cleavage Furrow



Outside-In Force (Centripetal)



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$$E=mc^2$$



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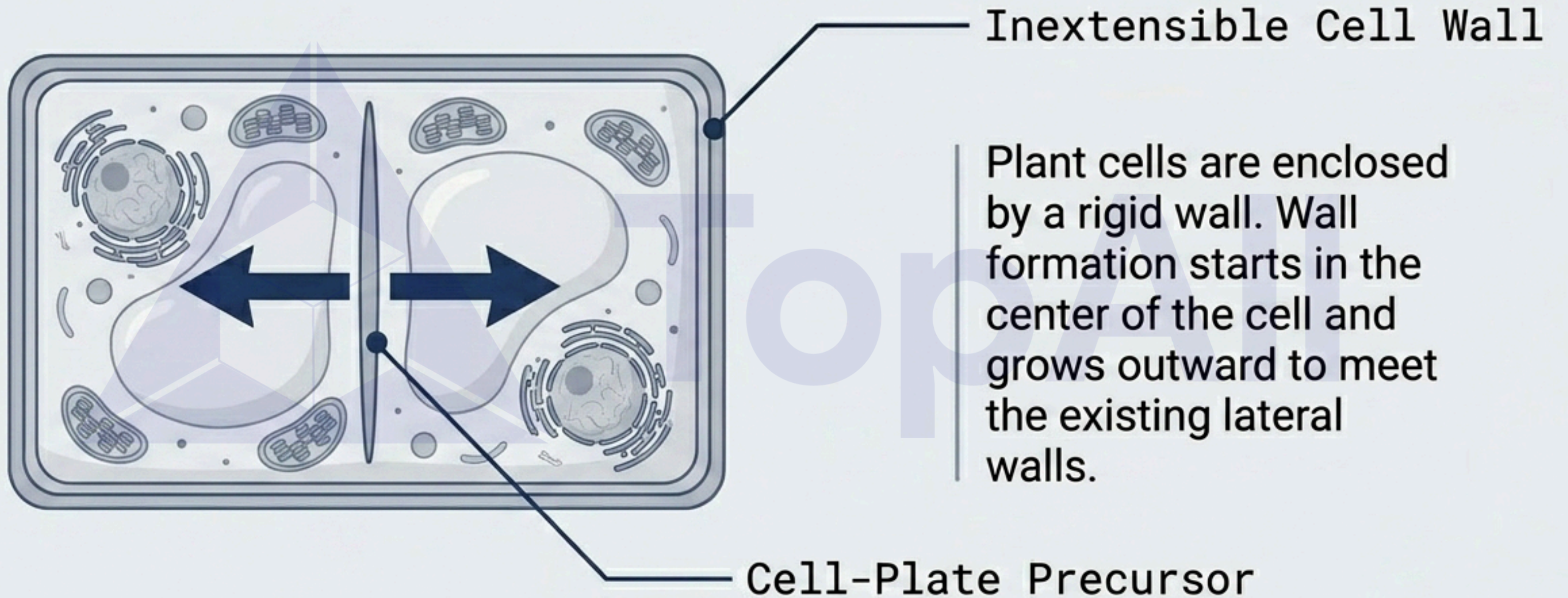
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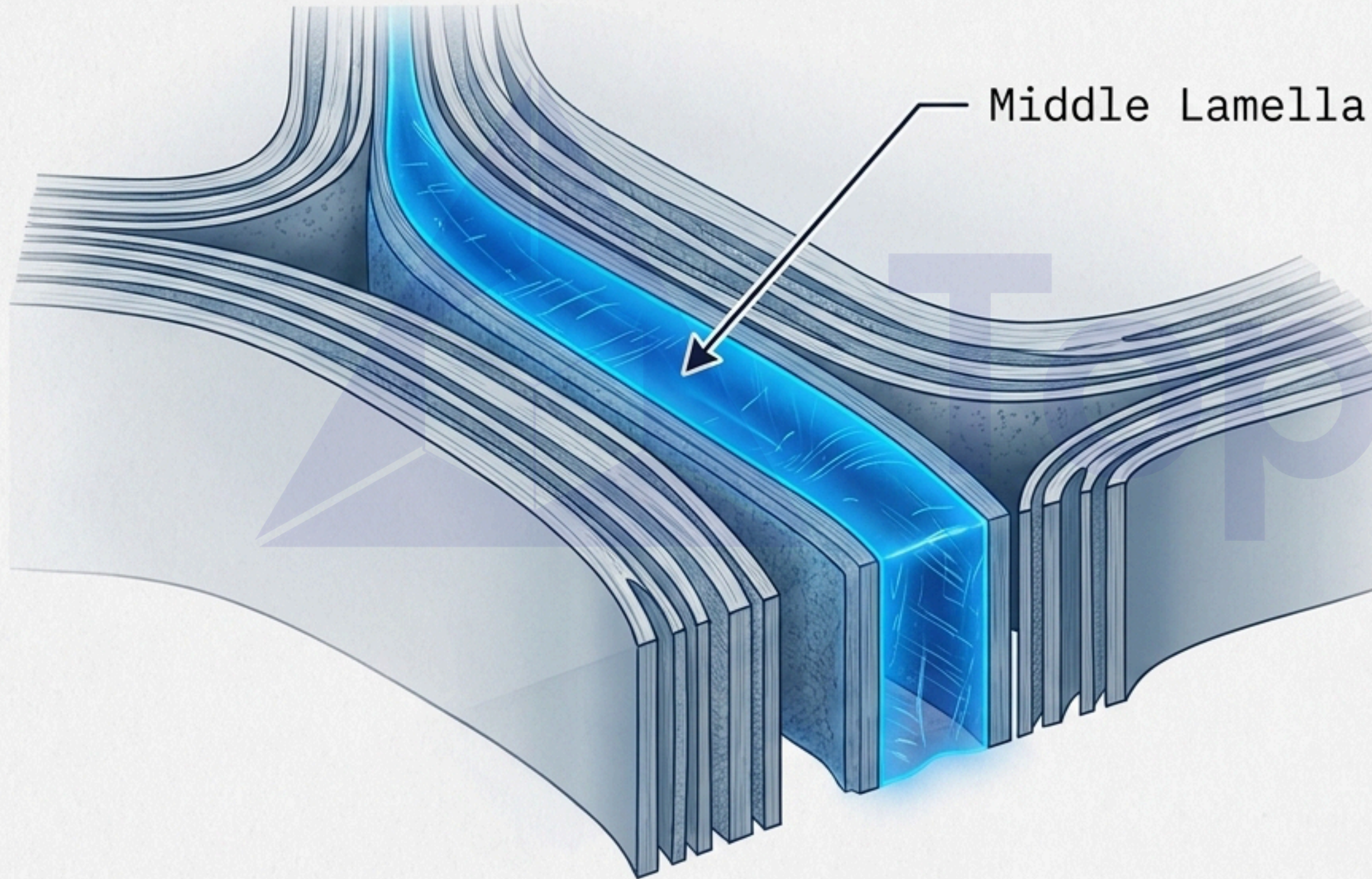


Plant Cells: The Cell Plate



Inside-Out Force (Centrifugal)

The Future Middle Lamella



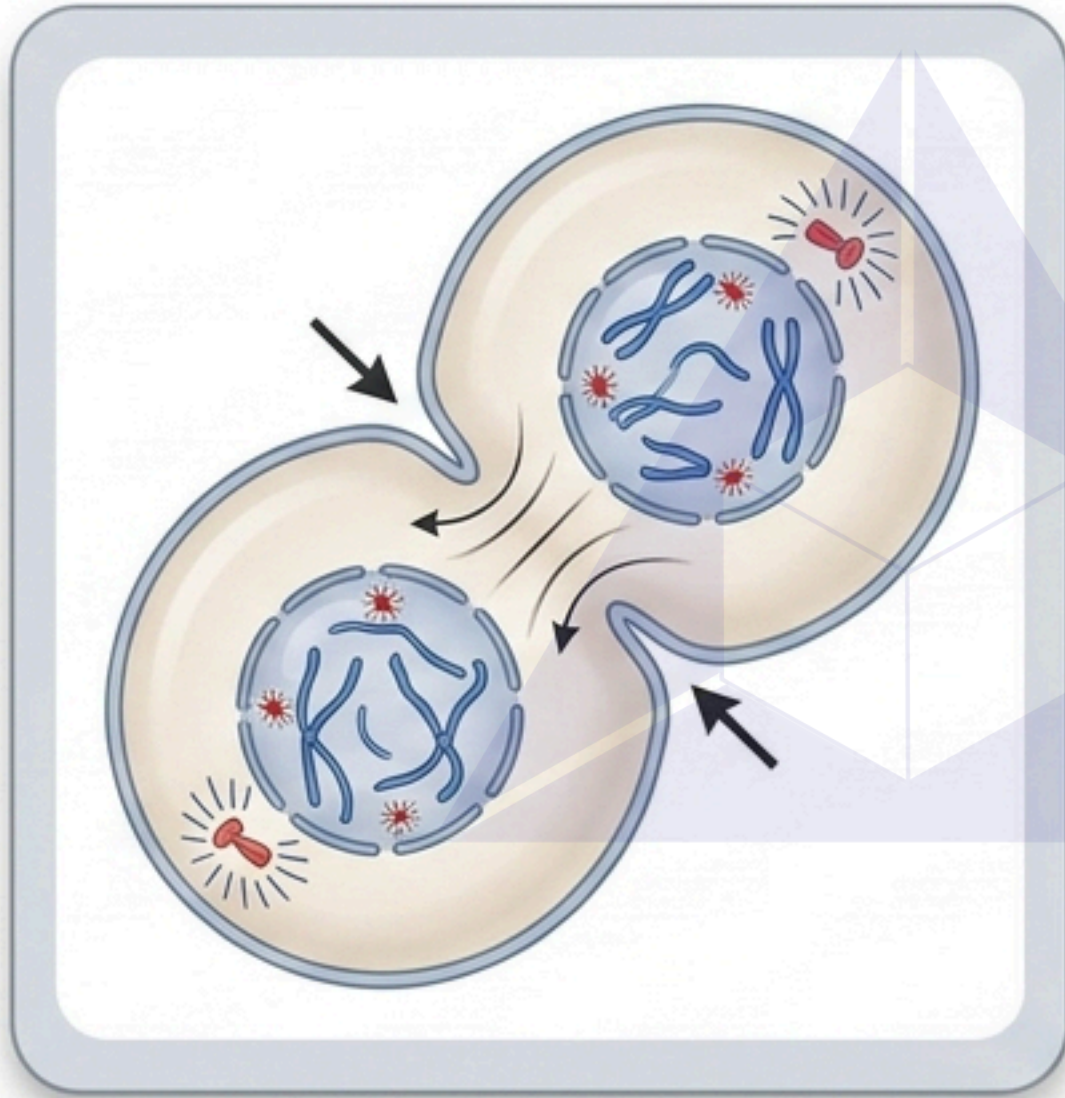
The simple cell-plate precursor eventually matures into the middle lamella between the walls of two adjacent cells.

Organelle Distribution

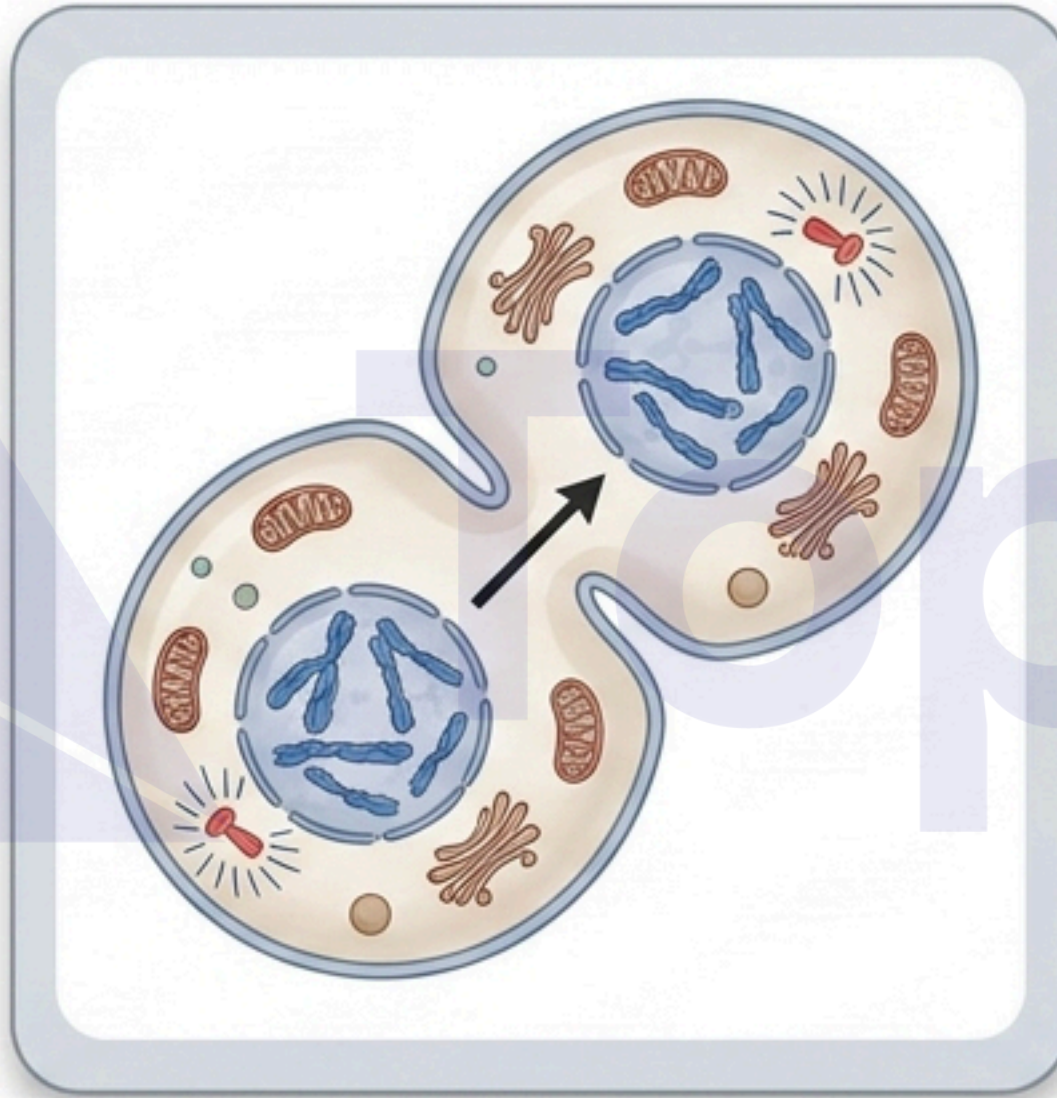


During cytoplasmic division, organelles like mitochondria and plastids get evenly distributed between the two daughter cells.

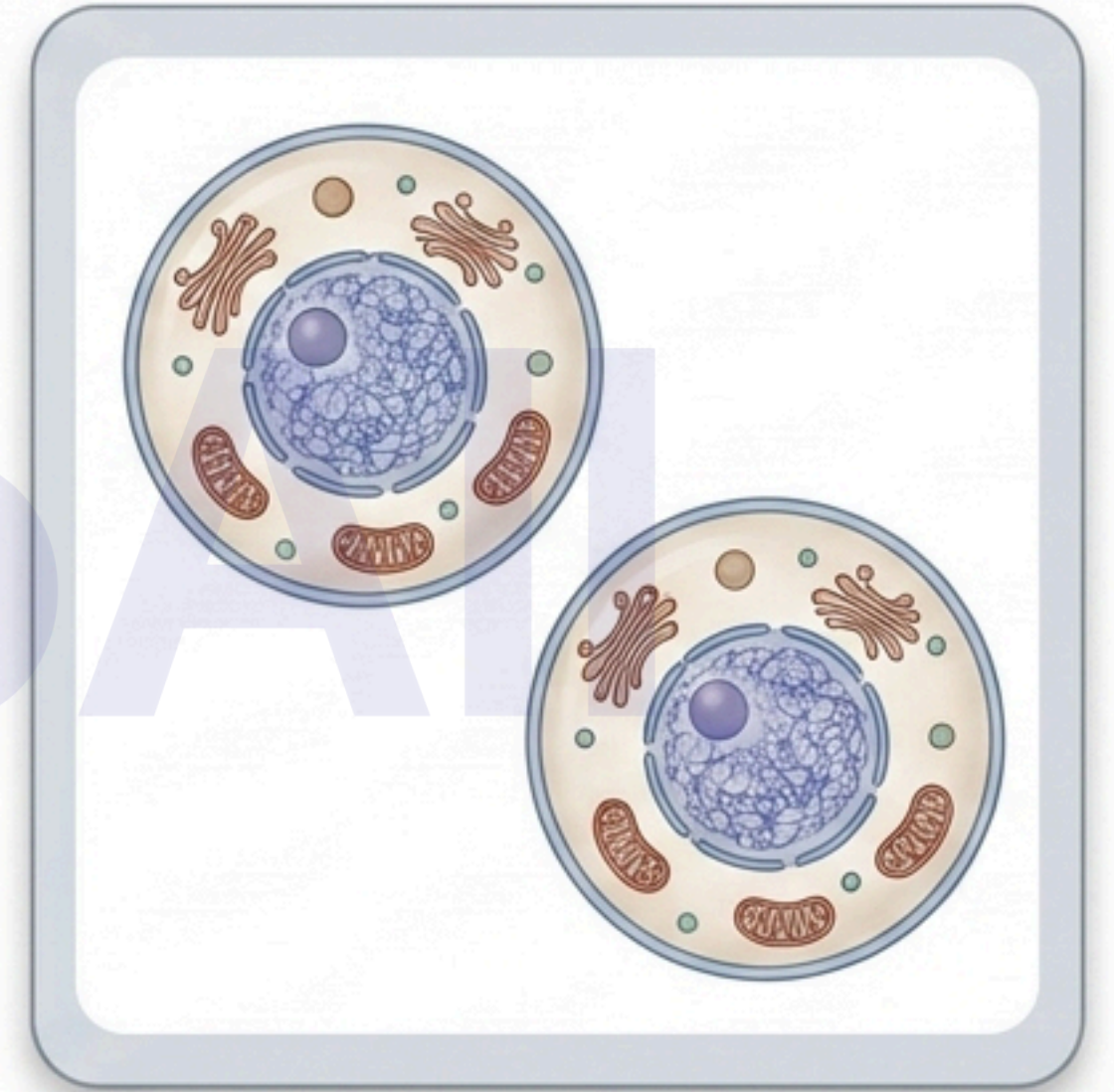
The Final Separation



Telophase



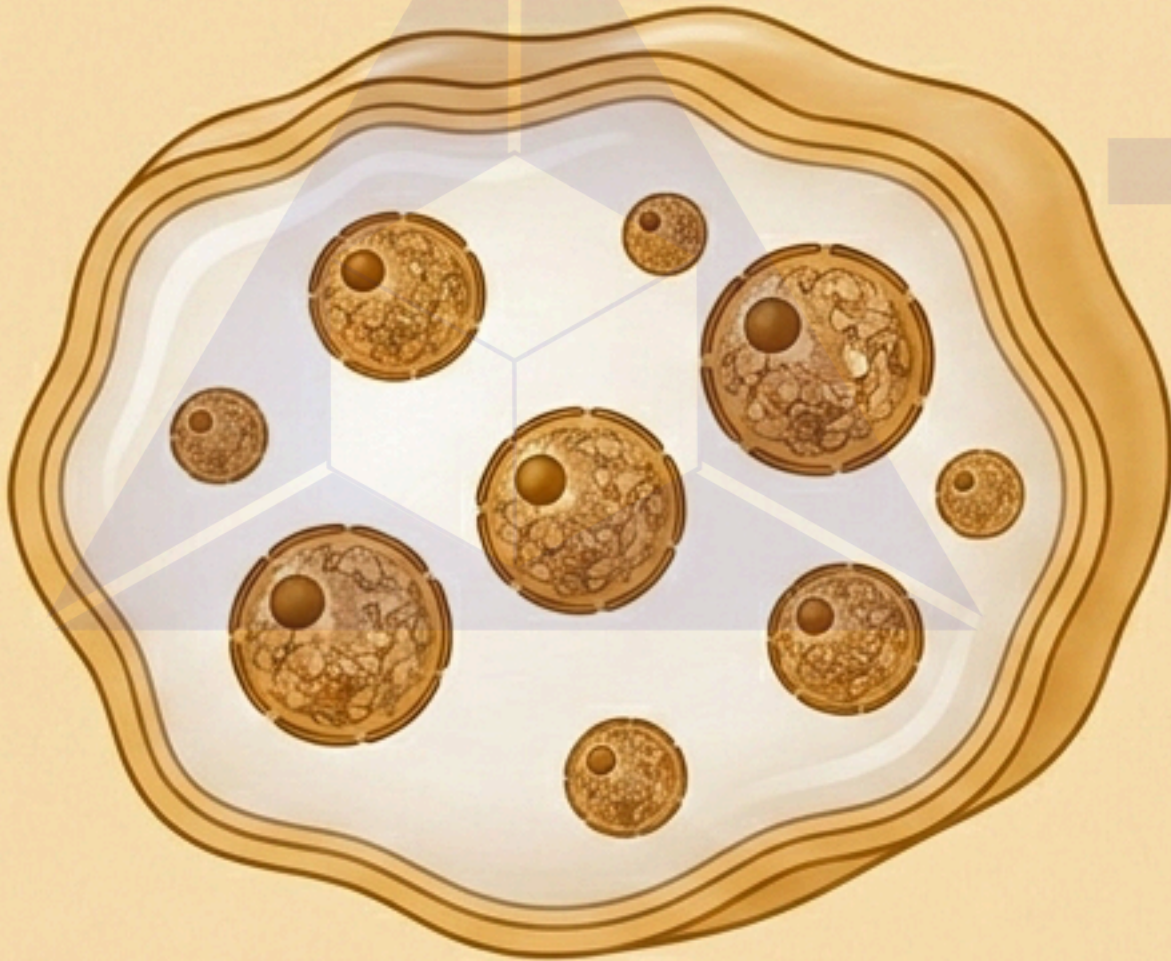
Cytokinesis



Interphase

The Multinucleate Condition

Syncytium



Occurs when karyokinesis is not followed by cytokinesis. The result is a single cell containing multiple nuclei.

Example: Liquid endosperm in coconut.

Summary & Key Takeaways

Cytokinesis completes cell division, adapting its mechanics to the structural limits of the organism.

Animal Cells	Plant Cells
Cleavage Furrow	Cell Plate
Flexible Plasma Membrane	Rigid Inextensible Cell Wall
Outside-In (Centripetal)	Inside-Out (Centrifugal)



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