

Organelles and compartmentalization

Define organelle.

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Which three structures are not considered organelles?

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Which invention made it possible to study the function of individual organelles?

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What is the advantage of separating the nucleus from the cytoplasm?

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Why are lysosomal enzymes kept in a compartment?

The cell wall, the cytoskeleton and the cytoplasm.

A discrete subunit of a cell that is adapted to perform a specific function.

mRNA can be modified after transcription before it meets ribosomes for translation.

The ultracentrifuge, used for cell fractionation.

They are hydrolytic enzymes that would digest the cell's own components if free in the cytoplasm.