

Cell Biology — Lecture 4

Cornell notes · 14 Oct 2026

What is a cell?	<i>Smallest unit of life; all living things are made of cells.</i>
Prokaryote vs eukaryote	<i>Prokaryotes: no nucleus (bacteria). Eukaryotes: nucleus (plants, animals).</i>
Organelles	<i>Nucleus, ribosomes, ER, Golgi, lysosomes, vacuoles.</i>
Mitochondria	<i>Site of cellular respiration — makes ATP for the cell.</i>
Key words	<i>Membrane, cytoplasm, organelle, nucleus, ATP.</i>

SUMMARY

Cells are life's building blocks. Eukaryotic cells keep DNA in a nucleus; mitochondria power the cell by making ATP.