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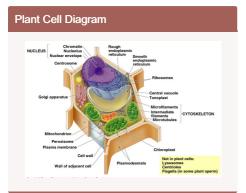
AP Bio Unit 2 Cheat Sheet by JagritiJha via cheatography.com/182976/cs/38078/

Prokaryotes vs Eukaryotes

Characteristics	Prokaryotics	Eukaryotics
Plasma Membrane	Yes	Yes
Ribosomes	Yes	Yes
Membrane-bound organelles in cytosol	No	Yes
Nucleus	No	Yes
Size	1-10 µm	10-100 µm

Cell Size

Surface area to volume ratio becomes less favorable as a cell increases in size



Animal Cell Diagram



By JagritiJha cheatography.com/jagritijha/

Prokaryotes vs Eukaryotes

Prokaryotes	Eukaryotes
Single circular chromosome is found in a region called the nucleoid, but there is no nuclear membrane and therefore no true nucleus	Membrane enclosed nucleus contains cell's linear chromo- somes
No membrane-bound organelles are found in the cytosol (there are ribosomes but they aren't membrane bound)	Many membrane bound organelles are found in the cytoplasm
Prokaryotes are much smaller than eukaryotes	Generally, eukaryotes are much larger than prokaryotes.

Cell Wall

Functions: Protects plant, helps maintain shape, & provides barrier for some substances to enter plant cell Found outside plasma membrane Primary component: **Cellulose** Perforated (pierced with a hole or holes) by **plasmodesmata** (channels that connect plant cells and allow communication and movement of material between cells)

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