

### AP Bio Unit 2 Cheat Sheet

by JagritiJha via cheatography.com/182976/cs/38078/

**Eukaryotes** 

Membrane--

enclosed

nucleus

contains

chromo-

somes

Many

bound

the cytoplasm

cell's linear

membrane--

organelles

are found in

Generally,

eukaryotes are much larger than prokaryotes.

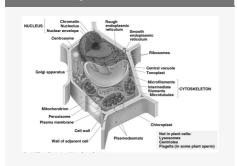
### Prokaryotes vs Eukaryotes

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

#### Plant Cell Diagram



# Prokaryotes vs Eukaryotes

## Prokaryotes

Single circular chromosome is found in a region called the nucleoid, but there is no nuclear membrane and therefore no true nucleus

No membrane-bound organelles are found in the cytosol (there are ribosomes but they aren't membrane bound)

Prokaryotes are much smaller than eukaryotes

### Cell Wall

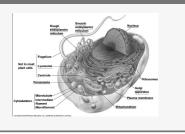
Functions: Protects plant, helps maintain shape, & provides barrier for some substances to enter plant cell

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)

### Animal Cell Diagram



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