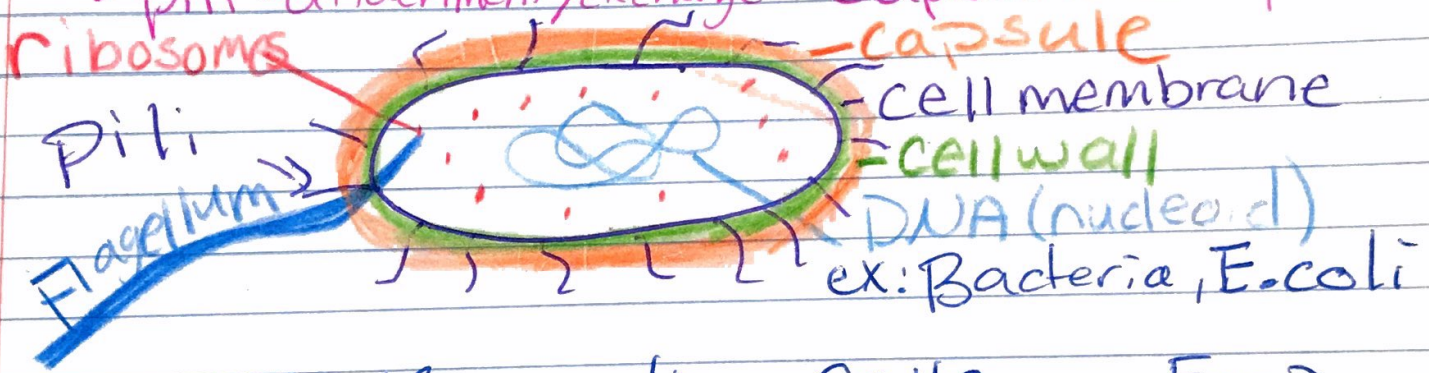


Types of Cells

- All living things made of cells
- unicellular - 1 multicellular - many
- All cells have: Cell membrane, cytoplasm, DNA, ribosome

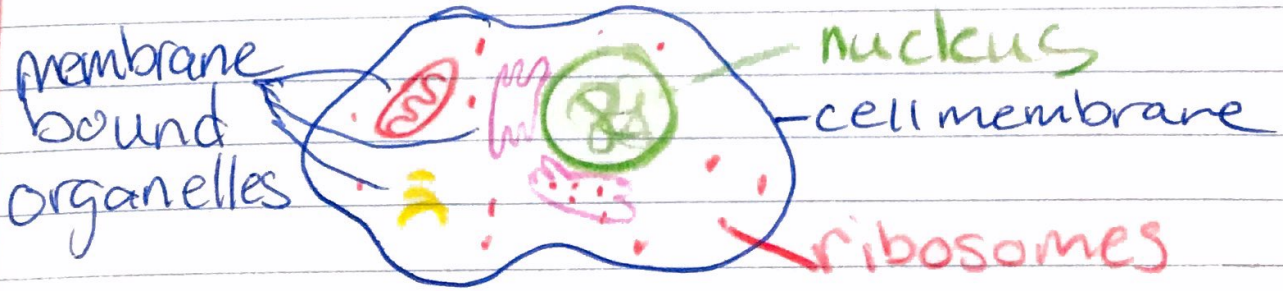
Prokaryotic cells pro=one

- simple & small (uni only)
- NO nucleus
- NO membrane-bound organelles (anything but ribosome)
- Circular DNA (nucleoid) -ish
- pili - attachment/exchange Capsule - extra protection



Eukaryotic cells Eu=Do

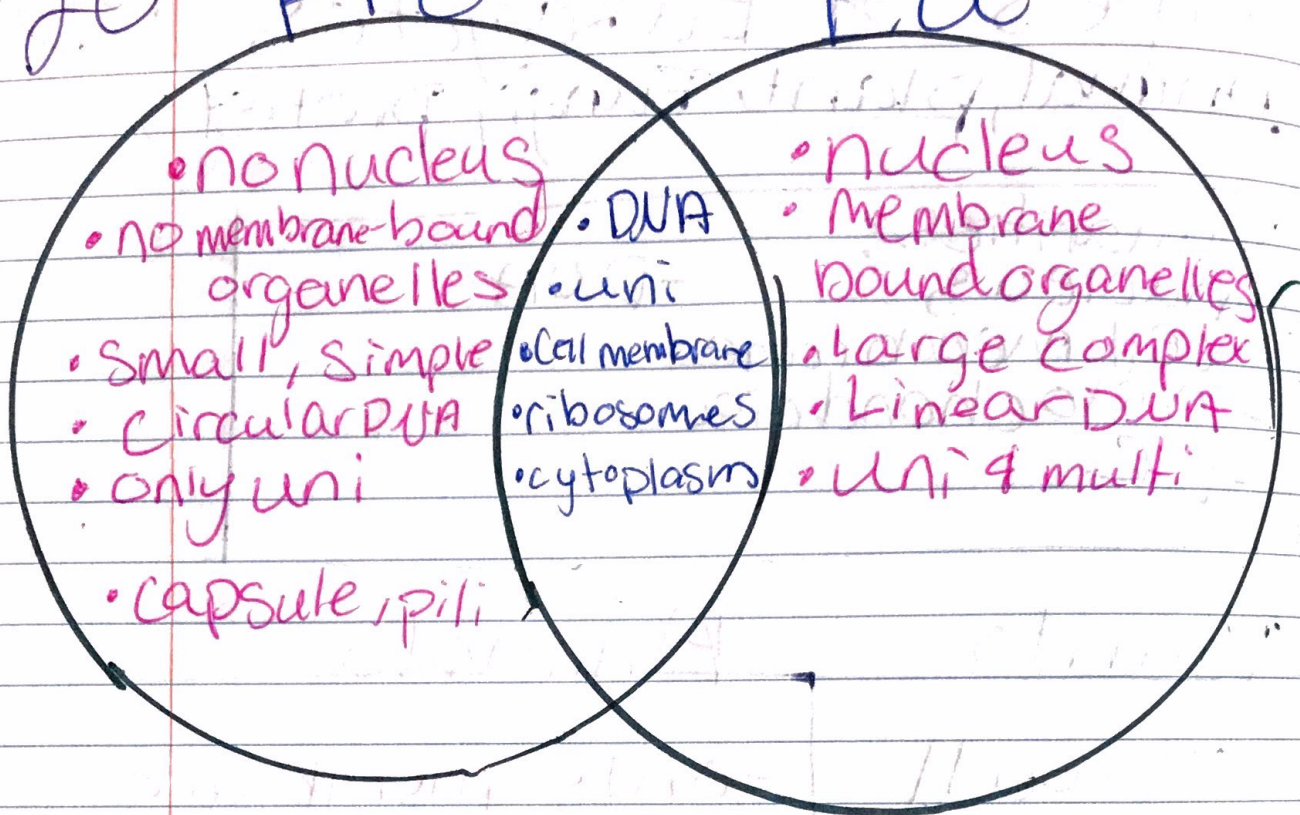
- larger & more complex
- DO have nucleus
- DO have membrane-bound organelles (mitochondria, ER, golgi)
- some cell walls (plants, fungi)
- linear DNA (in nucleus)
- uni or multicellular



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Pro

Eu



Endosymbiotic Theory

Endosymbiosis is...

Evidence for:

1.

2.

3.

Types of Eukaryotes

- animals, plants, fungi, protists

Similarities:

- cell membrane
- nucleus
- multicellular
- mitochondria
- ER, golgi
- ribosomes

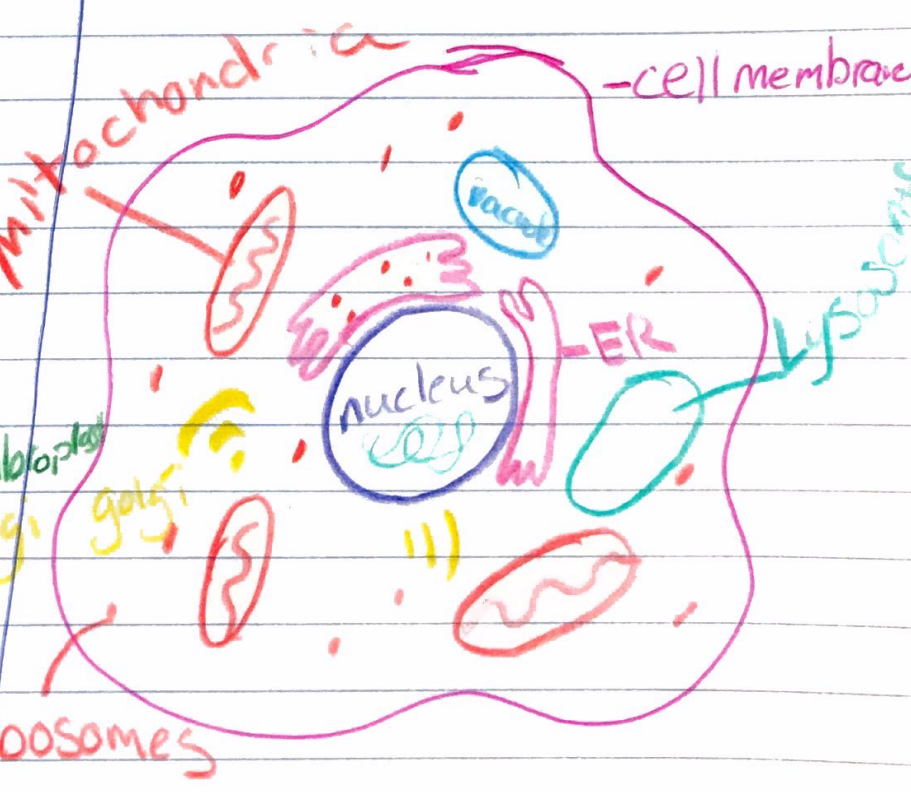
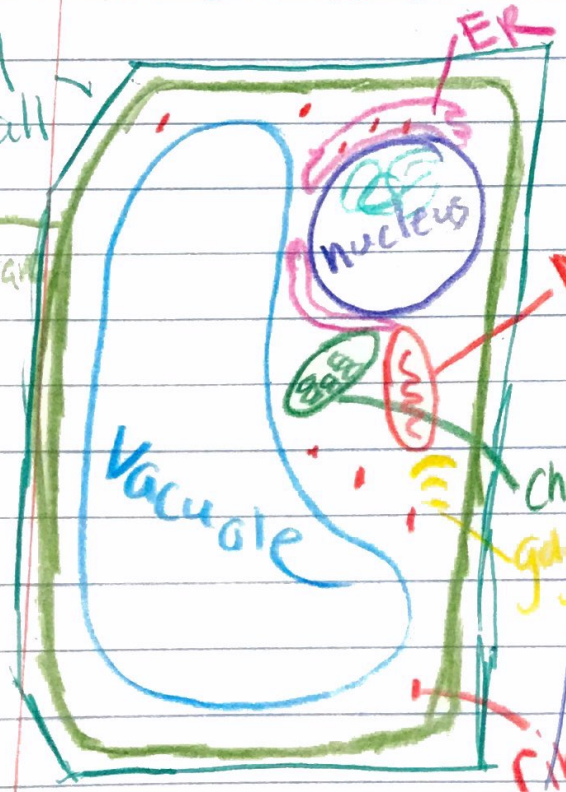
Plant

- chloroplast
- cell wall
- large vacuole
- nucleus off to side

Animals

- lysosome
- cell membrane only
- small vacuole
- nucleus in middle

cell wall
cell membrane



ribosomes