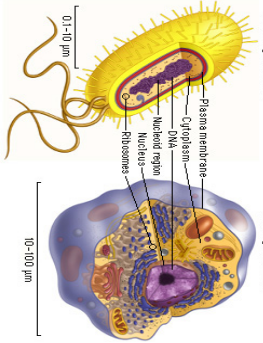


Pro/Euk - Cell Biology COMPLETE Notes

Questions/Pictures / Key Words



“...” means
something the
teacher said

Two types of cells:

1. _____ Cells
2. _____ Cells

Every thing we know about cells we call
“**cell theory**”.

- Cell Theory says that....
 1. All living things are made of _____.
 2. Cells are the basic units of _____ and f _____ in all living things. In other words, cells are like the building blocks of all living things.
 3. New cells are only made from _____ _____.

Cells come in all shapes and sizes!

- There are two types of cells:
 - 1) Prokaryotic Cells
 - 2) Eukaryotic Cells
- Big differences between cell types:
STRUCTURAL differences.

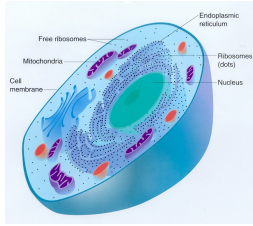
Prokaryote Cell: *A single celled organism that does **not** have a nucleus. – “PRO-NO!”*

Traits of Prokaryotes: (pro-care-ee-ohts)

1. They do **not** have a _____, and their genetic material
2. They have some organelles, but not many.
3. They are less _____ that eukaryotes.
4. All _____ are prokaryotes.
 - Bacteria is good, who knew?!
 - Decomposers
 - In digestive system
 - 10x as many bacterial cells as human cells in the human body!
 - Needed for cheese & yogurt

Summary:

Questions/Pictures / Key Words



Eukaryote Cell: *A more complex cell with a nucleus and many organelles. – “Eu-DO!”*

Traits of **Eukaryotes:** (you-care-ee-othts)

1. They all have a _____ where the genetic material of the cell is stored.
2. They have _____ that work together to help the cell function.
3. Eukaryotic cells are much more _____ than prokaryotic cells.
4. They can be just one cell or can make up more complex multi-cellular organisms.
5. _____ **plants, animals, fungi, and protists are eukaryotic cells.**

Summary: Prokaryotic cells do not have a nucleus & Eukaryotic cells do have a nucleus.

This allows eukaryotic cells to make multi-cellular organisms and perform more complex functions.