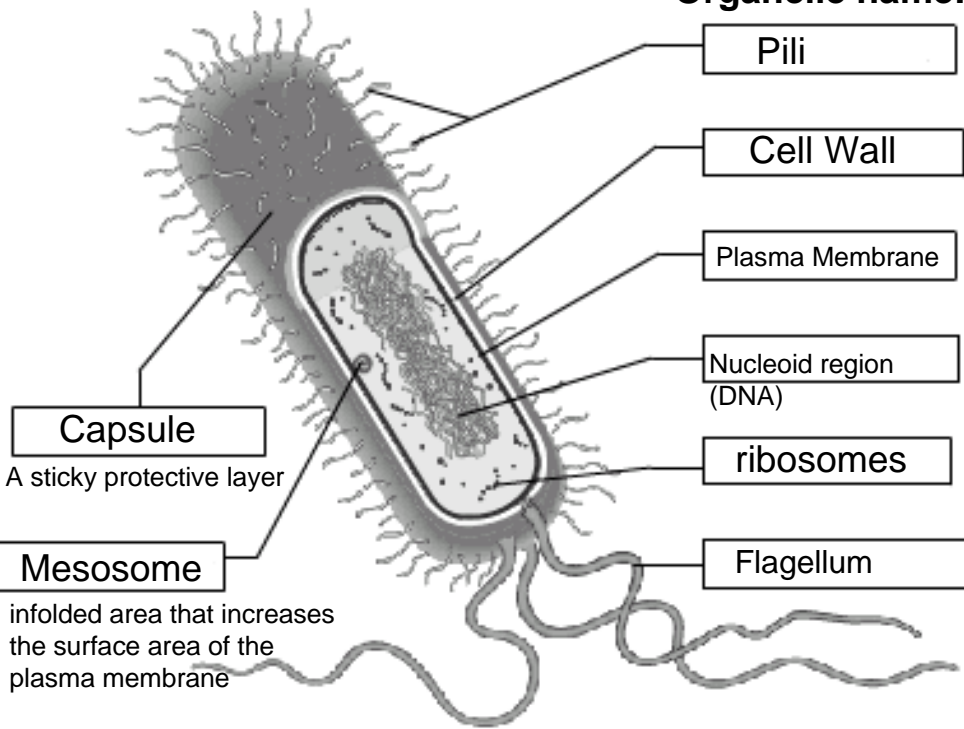


Three Kinds of Cells and their Organelles

1. **Prokaryote** = “pro” – before, “karyo” – nucleus

The prokaryote cell existed before the other types of cells.

It does not have a nuclear membrane.



Organelle function:

surface appendages that allow a bacterium to adhere to its substrate

rigid structure that surrounds, supports, and protects the cell

a selective barrier, allowing passage of oxygen, nutrients, and wastes

the cell's DNA, containing the genes that control the cell

Where proteins are synthesized

structure that propels the cell