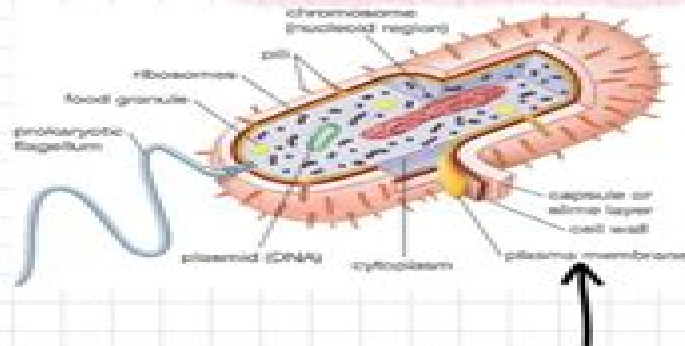


# PROKARYOTIC AND EUKARYOTIC CELLS:

→ **PROKARYOTIC CELL** - A GROUP OF ORGANISMS THAT LACK A TRUE NUCLEUS AND OTHER MEMBRANE-BOUND ORGANELLES (bacteria + archaea)

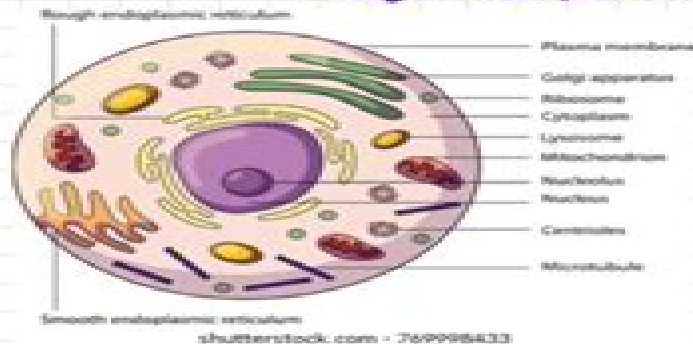


PEPTIDOGLYCAN CELL WALL

→ SMALL RIBOSOMES 70S/18nm

- DNA WITHIN CYTOPLASM
- CIRCULAR DNA
- NO MEMBRANE-BOUND ORGANELLES
- CELL WALL MADE FROM MUREIN/PEPTIDOGLYCAN.
- CELL DIVISION BY BINARY FUSION.
- PLASMIDS + SIMPLE FLAGELLA.
- 70S/18nm ribosomes
- SMALLER 5nm.

→ **EUKARYOTIC CELL** - CELLS CONTAINING A NUCLEUS AND MEMBRANE-BOUND ORGANELLES. (animal + plant).



- CHLOROPLASTS HAVE THEIR OWN CIRCULAR DNA.
- MITOCHONDRIA ARE A SIMILAR SIZE TO BACTERIA.
- MITOCHONDRIA CONTAIN RIBOSOMES THAT ARE SMALLER THAN THOSE FOUND IN THE CELL CYTOPLASM.

many scientists believe that mitochondria + chloroplasts in euk cells are derived originally from single celled prok organisms.

theory is that prok organisms were engulfed by bigger single-celled organisms + WERE KEPT IN THEIR CYTOPLASM AS THEY WERE USEFUL.

- DNA IN NUCLEUS.
- LINEAR DNA.
- MEMBRANE-BOUND ORGANELLES.
- CELLULOSE CELL WALLS.
- CELL DIVISION BY MITOSIS.
- NO PLASMIDS
- FLAGELLA MADE OF MICROTUBULES
- 80S/22nm ribosomes
- LARGER 10-100nm.

# Eukaryotic And Prokaryotic Cells Study Guide

**JA Banks**



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