

One "celled" organisms.

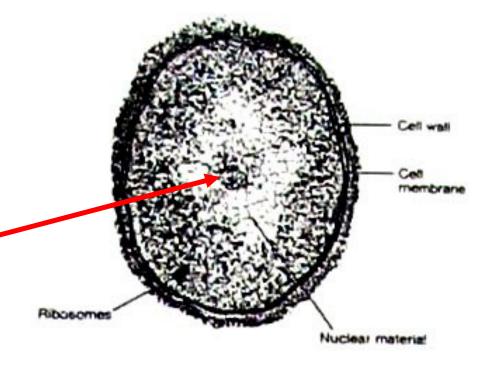


Bacteria do not typically have a complete cell structure. Monerans are the only kingdom of PROKARYOTES.

Prokaryotes

No nucleus or other membrane around the cellular organelles.

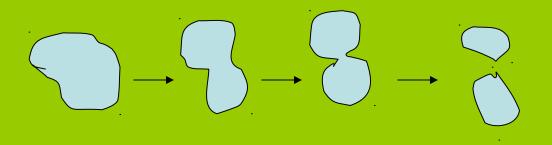
Often has a cell wall, but DNA is not membrane bound.



Replication

Binary Fusion.

This is a form of replication where the organism pinches off a new one by its cell wall just folding in on itself and cutting off the new part.



MOTION

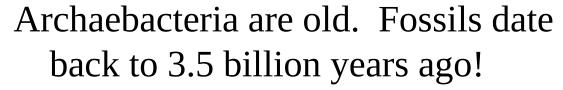
Squirming or wiggling.

Many have a flagellum

or flagella for motion.



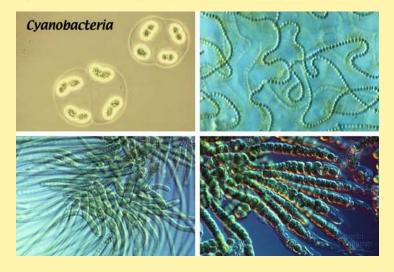




Thermoacidophiles are heat resistant and have been found in the boiling lakes of Yellowstone and similar places. Some believe they may hold medical cures or treatments.

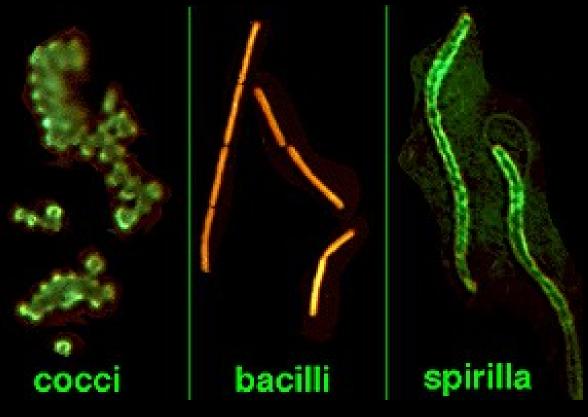
Methanogens are anaerobes that produce methane which live in your gut.

CLASSIFICATION



Eubacteria. The "true bacteria" are most common.

Shapes

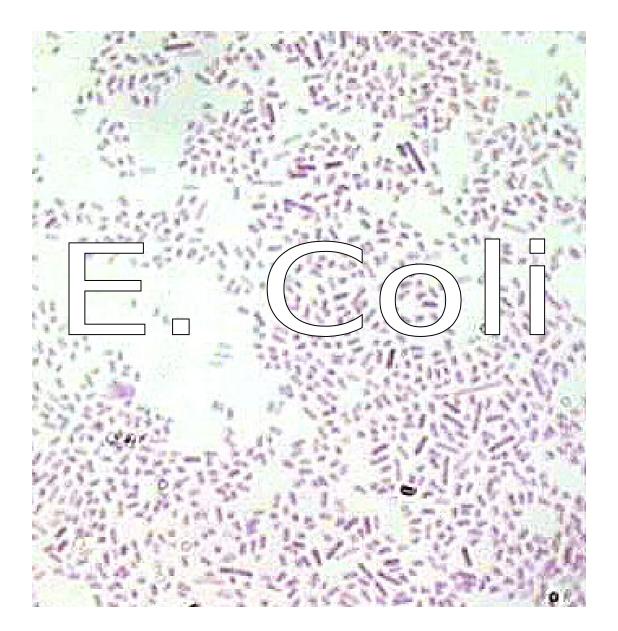


Round.

Rod-shaped.

Spiral.

Bacterial names often include shapes.



Examples:

BACILLI:

Escherichi coli (affects our guts)

Lactobacillus spp. (tooth decay; ingredient in yogurt)

Bascillus anthracis (anthrax in sheep & humans)

COCCI:

Streptococcus spp. (strep throat)

Staphylococcus spp. (staph & gangrene in untreated wounds)

Streptomyces spp. (medicine streptomycin)