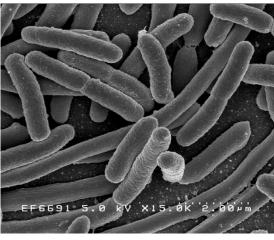
## Introduction to Bacteria (singular i Bacterium)

Bacteria are one of the three

Domains of life along with the
Archaea, which used to be
mistaken for hacteria because
they both are Prokaryotes, cells
without a nucleus. The third
Domain is the Eukaryota, "
organisms with cells that have
a nucleus

Bacteria, like all prokaryotes are very small, visible only with high-power microscopes and lack

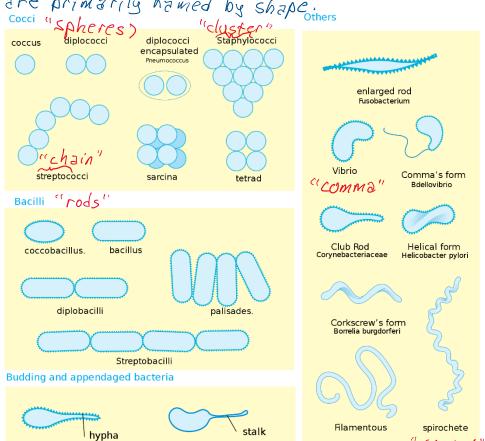


By Credit: Rocky Mountain Laboratories, NIAID, NIH - NIAID: These high-resolution (300 dpi) images may be downloaded directly from this site. All the images, except specified ones from the World Health Organization (WHO), are in the public domain. For the public domain images, there is no copyright, no permission required, and no charge for their use., Public Domain, https://commons.wikimedia.org/w/index.php?curid=104228

internal membranes, including membrane-bound organelles, like a nucleus, mitochondria, Golgi bodies, vacuoles, vesicles, endoplasmic reticulum, but have cell structures like rikosomes, DNA (not chromosomes) in loops or strand or smaller circles called plasmid. Bacteria are the direct descendants of the Last Universal Common Ancestor

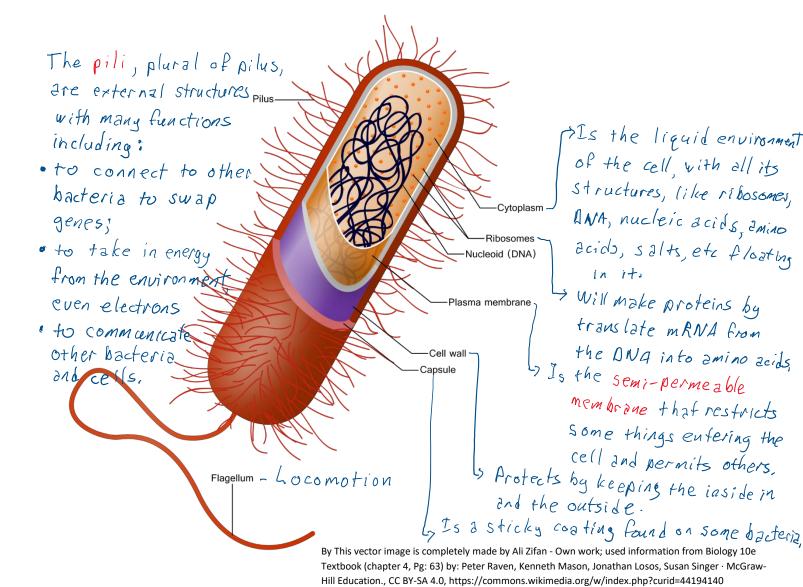
Bacteria can be plankfonic ("drifters"), found floating in fluid, but most are found in biofilms that coat surfaces.

Bacteria are primarily named by shape others



By Mariana Ruiz LadyofHats - the image i did myself using adobe ilustrator, using the information found on[1], [2],[3],[4], [5],[6], [7] and the book "medizinische mikrobiologie" from ernst wiesmann ED. Thieme (1986), Public Domain, https://commons.wikimedia.org/w/index.php?curid=738916

## A Generic Bacillus Bacterium



Bacteria are the oldest living organisms. Since bacteria grow and divide, like our cells, the bacteria living today are direct descendants of the first bacteria, just like my finger nails are direct descendants of my baby fingernails.

Bacteria are found everywhere we look, in caues, in clouds, in the deepest mines, in thermal vents in glaciers and in all life.