Introduction to Bacteria

Bacteria is one of three Domains of life. Along with Archea are grouped as Prokaryotes, cells lacking membrane bound organelles, such as the nucleus, mitochondria, chloroplasts, Golgi body, vacuoles, endoplasmic reticulum, etc. Bacteria are small (see scale for the picture of the streptobacilli at right), and are found where ever we have looked for life.

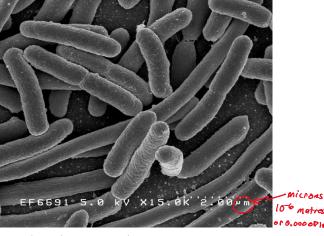
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They were the first organisms on Earth and probably about 4 billion (109) years ago, based on possible fossil finds of microfossils in Quebec recently, dated between 3.5-4.5 billion years ago.

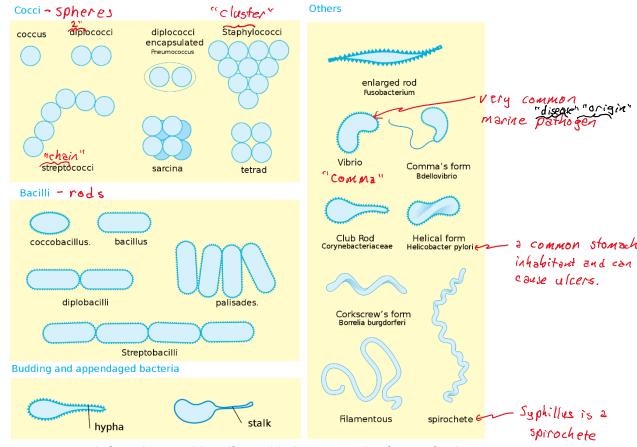
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dated between 3.5 - 4.5 billion years ago.

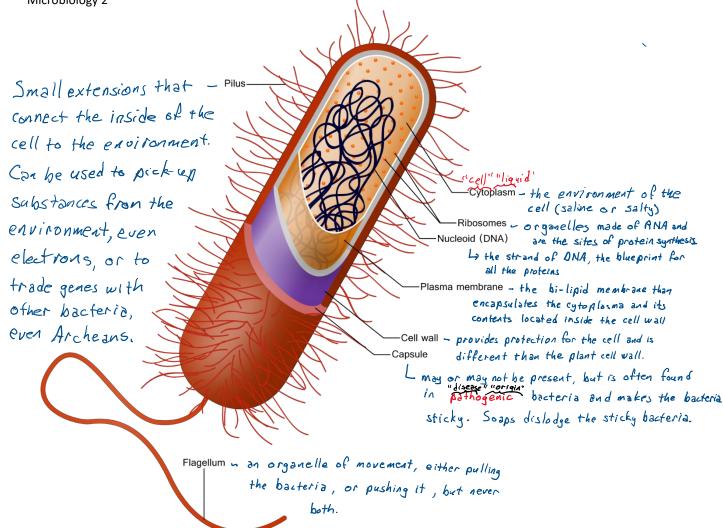
Since bacteria are so small, they were initially categorized by their shape and how the group (see below)



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Bacteria reproduce by binary fission, splitting in two. Some like Escherizia coli or E. coli, poop bacteria, double their population every twenty minutes. One cell becomes 4,7 x1021 bacteria. Bacteria do not die. They get eaten and can be killed, but do not have a life span. They also do not have sexual reproduction.