

General microbiology

Bacterial morphology

Characterization of prokaryotic cells (all bacteria are prokaryotes)

- Size (diameter)
 - Most species have diameter of 1µm.
 - The smallest bacteria are 0.1 µm (**mycoplasma**)
 - The larger bacteria may reach up to 10 µm.



- Shape + arrangement- **the shape is determined by the murein sac arrangement.**
 - Coccus – spherical shape – 0.5-1.5 µm



- Cluster (staph)
- Chain (strep, enterococci)- **reproduction in one plane and late separation.**
- **Diplococci – (*S. pneumoniae*, *Neisseria*), may be encapsulated!**
- Tetrad



- Bacillus/rods



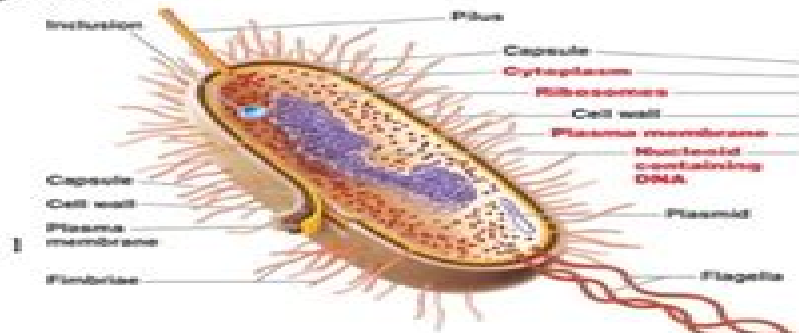
- Chain (streptobacilli)- **bacillus anthracis and cereus.**
- Row (palisades)
- Diplobacilli
- Coccobacillus – somewhere between coccus and bacillus (***Bordetella*, *brucella*, *Francisella*, *Haemophilus***)- **the respiratory bacteriae+ zoonotics.**

- Spirochete – double membrane + helical-coiled cell (***Leptospira*, *Borrelia burgdorferi* et *recurrentis*, *treponema***)

Structures of prokaryotic cells

*not all bacteria have all the organelles described below (common organelles to all bacteria are: cell membrane, cytoplasm, ribosomes, nucleoid (bacterial chromosome)).

*prokaryotic cell lack membrane-enclosed organelles.



Environmental Microbiology Lecture Notes

Ying Liu



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