

# General microbiology

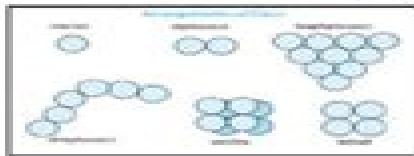
## Bacterial morphology

### 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 muric acid 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

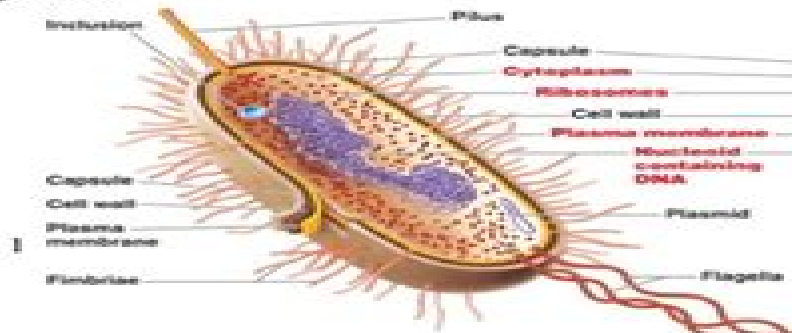


- Chain (streptobacilli)- *Bacillus anthracis* and *Cereus*.
- Row (palisades)
- Diplobacilli
- Coccobacillus – somewhere between coccus and bacillus (*Bordetella, brucella, Francisella, Haemophilus*)- the respiratory bacteria+ zoonotics.
- Spirochete – double membrane + helical-coiled cell (*Leptospira, 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

**Xiaolong Qi**



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