

General microbiology

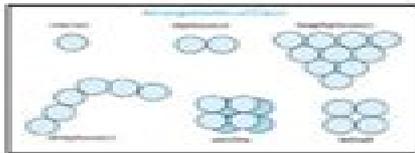
Bacterial morphology

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.



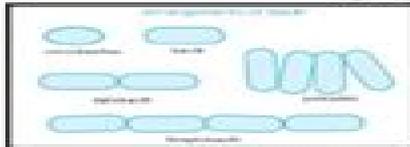
- Shape + arrangement- **the shape is determined by the murin sac arrangement.**
 - Coccus – spherical shape – 0.5-1.5 µm



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



- Bacillus/rods



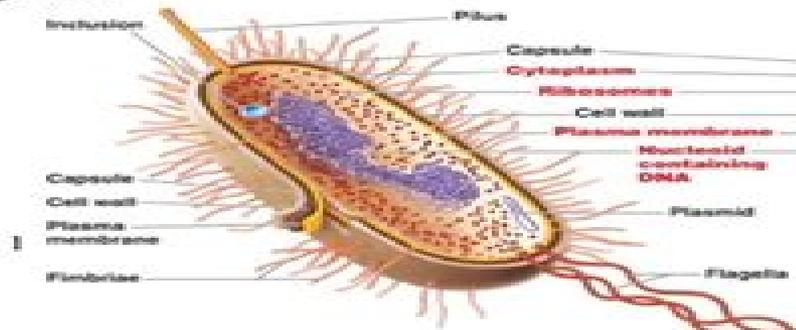
- Chain (streptobacilli)- **bacillus anthracis and cereus.**
- Row (palisades)
- Diplobacilli
- Coccobacillus – somewhere between coccus and bacillus (***Bordetella*, *brucella*, *Francisella*, *Haemophilus***)- **the respiratory bacteriae+ zoonotics.**

- 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

J Dewey



Environmental Microbiology Lecture Notes:

Environmental Microbiology Lecture Notes Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Environmental Microbiology Lecture Notes**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://matrix.jamesarcher.co/data/publication/index.jsp/Alone%20Together%20Wikis.pdf>

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