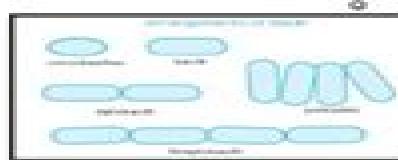
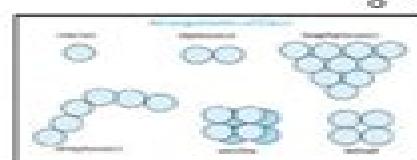


# General microbiology

## Bacterial morphology

Characterization of prokaryotic cells (all bacteria are prokaryotes)

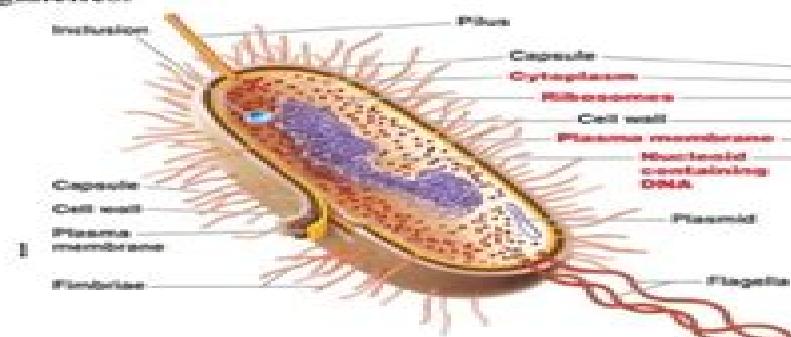
- Size (diameter)
  - Most species have diameter of 1  $\mu\text{m}$ .
  - The smallest bacteria are 0.1  $\mu\text{m}$  (**mycoplasma**)
  - The larger bacteria may reach up to 10  $\mu\text{m}$ .
- Shape + arrangement- the shape is determined by the murein sac arrangement.
  - Coccus – spherical shape – 0.5-1.5  $\mu\text{m}$ 
    - 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.



# General Microbiology

**Jicheng Xie**

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**General Microbiology** Jamaluddin,Naveen Malaviya,2007-06-01 The text book of Microbiology as taught in different courses in various universities It has been divided in five sections The students of microbiology at present are required to consult a large number of books to grapple with the subject and therefore the form and details of this book have been given in order to give them basic understanding of the subject Sections I deals with the history of microbiology taxonomy morphology and reproduction of micro organisms wherein a brief account of eukaryotic microorganism is also discussed Section II covers physiology wherein a basic account of biochemistry and details of enzyme and metabolic processes in microorganisms is included Further certain techniques namely ELISA and SDGC are also described Section III deals with microbial genetics Chapter 14 of this section starts with the basic terms used in genetics description of nucleic acid Besides microbial genetics transposable elements and transposition have been given It also covers molecular biolo Section IV deals with Applied Microbiology Human and Plant Diseases have been covered Detailed account of Immunology Soil Microbiology and Indus trial Microbiology has been included Geomicrobiology has been treated specially in a chapter separately devoted to it Section V covers techniques wherein various types of microscopy instrumentation and cultural techniques are given The students of microbiology at present are required to consult a large number of books to grapple with the subject and therefore the form and details of this book have been given in order to give them basic understanding of the subject

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*General Register* University of Michigan,1955 Announcements for the following year included in some vols *Advances in Microbial Physiology*,1990-09-17 *Advances in Microbial Physiology* **Issues in Life Sciences: Muscle, Membrane, and General Microbiology: 2011 Edition**,2012-01-09 *Issues in Life Sciences Muscle Membrane and General Microbiology* 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Life Sciences Muscle Membrane and General Microbiology The editors have built *Issues in Life Sciences Muscle Membrane and General Microbiology* 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Life Sciences Muscle Membrane and General Microbiology in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of *Issues in Life Sciences Muscle Membrane and General Microbiology* 2011 Edition has been produced by the world s leading scientists engineers analysts

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