

General microbiology

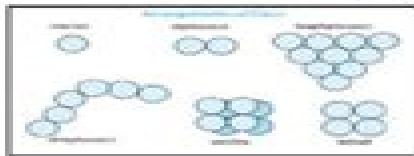
Bacterial morphology

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

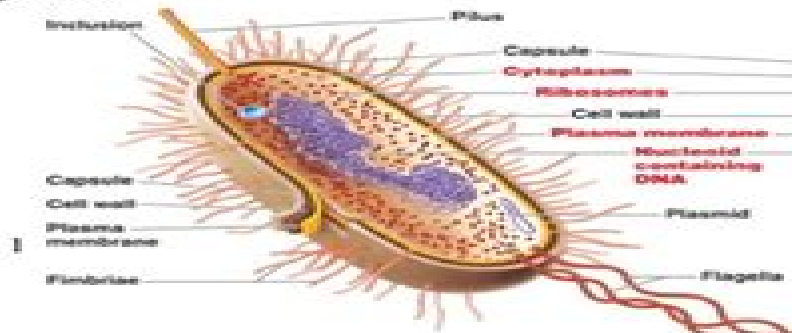


- Chain (streptobacilli)- **bacillus anthracis and cereus.**
- Row (palisades)
- Diplobacilli
- Coccobacillus – somewhere between coccus and bacillus (***Bordetella*, *brucella*, *Francisella*, *Haemophilus***)- **the respiratory bacteria+ zoonotics.**
- Spirochete – double membrane + helical-coiled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

Hussin A.Rothana



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Table of Contents Environmental Microbiology Lecture Notes

1. Understanding the eBook Environmental Microbiology Lecture Notes
 - The Rise of Digital Reading Environmental Microbiology Lecture Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Environmental Microbiology Lecture Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Environmental Microbiology Lecture Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Environmental Microbiology Lecture Notes
 - Personalized Recommendations
 - Environmental Microbiology Lecture Notes User Reviews and Ratings
 - Environmental Microbiology Lecture Notes and Bestseller Lists
5. Accessing Environmental Microbiology Lecture Notes Free and Paid eBooks
 - Environmental Microbiology Lecture Notes Public Domain eBooks
 - Environmental Microbiology Lecture Notes eBook Subscription Services

- Environmental Microbiology Lecture Notes Budget-Friendly Options
- 6. Navigating Environmental Microbiology Lecture Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Environmental Microbiology Lecture Notes Compatibility with Devices
 - Environmental Microbiology Lecture Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Environmental Microbiology Lecture Notes
 - Highlighting and Note-Taking Environmental Microbiology Lecture Notes
 - Interactive Elements Environmental Microbiology Lecture Notes
- 8. Staying Engaged with Environmental Microbiology Lecture Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Environmental Microbiology Lecture Notes
- 9. Balancing eBooks and Physical Books Environmental Microbiology Lecture Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Environmental Microbiology Lecture Notes
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Environmental Microbiology Lecture Notes
 - Setting Reading Goals Environmental Microbiology Lecture Notes
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Environmental Microbiology Lecture Notes
 - Fact-Checking eBook Content of Environmental Microbiology Lecture Notes
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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