

Chapter 2

How do cocci and rods differ in morphology?

coccus (pl. cocci): spherical or ovoid eg. *Staphylococcus Aureus*

rod/bacillus: cylindrical eg. *Escherichia Coli*, *Lactobacillus*

Is cell morphology a good predictor of other properties of the cell?

With very rare exceptions it is impossible to predict the physiology, ecology, phylogeny, pathogenic potential, or virtually any other property of a prokaryotic cell by simply knowing its morphology.

What physical property of cells increases as cells become smaller?

The surface area to volume ratio.

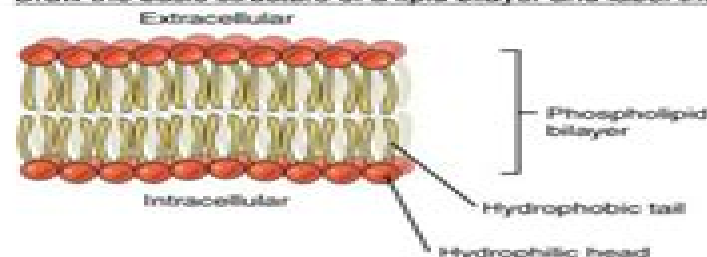
How can the small size and haploid state of prokaryotes accelerate their evolution?

The rate of evolution depends on the rate of mutations and the rate of cell divisions. Smaller cell size has a higher rate of cell division, more chances of DNA errors leading to mutations. Haploid organisms have only one copy of DNA, and a mutated gene gets expressed immediately.

What are the approximate limits to how small a cell can be? Why is this so?

Cells less than 0.15µm in diameter is unlikely because volume is needed to house proteins, nucleic acids, ribosomes etc.

Draw the basic structure of a lipid bilayer and label the hydrophilic and hydrophobic regions.



How are the membrane lipids of Bacteria and Archaea similar, and how do they differ?

Similarity : the basic concept of hydrophilic exterior and hydrophobic interior.

Differences:

- 1) Bacteria- membrane is made up of phospholipids (fatty acids are ester bonded)
- Archaea- lack true fatty acids and lipids are made up of repeating isoprene units.

Microbiology Chapter 2 Study Questions

Harold Rypins



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Textbook of Microbiology and Immunology - E-book Subhash Chandra Parija, 2016-09-12 The third edition of the Textbook of Microbiology and Immunology provides fully updated text on the various aspects of microbiology and infectious diseases which makes it the most authoritative and informative text in medical microbiology. It is a must-have book for preparing MBBS examination as well as the postgraduate entrance tests. Clear, succinct and comprehensive information on various aspects of microbiology and immunology. Thoroughly revised information with tables and figures for better understanding. Multicolor book designed in attractive student-friendly format with color photographs and illustrations to aid better understanding. Case studies at the end of chapters for self-assessment. Special emphasis on emerging and re-emerging pathogens and antimicrobial resistance. Covers recent advances in molecular diagnosis and vaccines. Additional emphasis on clinical microbiology with special focus on syndromic approach to infectious diseases. Online study materials include Key Facts, Study Questions, Multiple Choice Questions and PowerPoint presentation of each topic. Microbiology Gerard J. Tortora, Berdell R. Funke, Christine L. Case, 1989 **The Phlebotomy Textbook** Susan King Strasinger, Marjorie Schaub Di Lorenzo, 2019-02-25 Rely on this comprehensive resource to master the techniques you need to safely obtain quality specimens. You'll understand all the hows and whys that lead to success in this rapidly changing field. Inside you'll find the up-to-date coverage of routine procedures and their complications as well as specialized procedures, quality and infection control, state-of-the-art equipment, medical terminology, ethical and legal issues, body systems and related diagnostic laboratory tests.

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