

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.

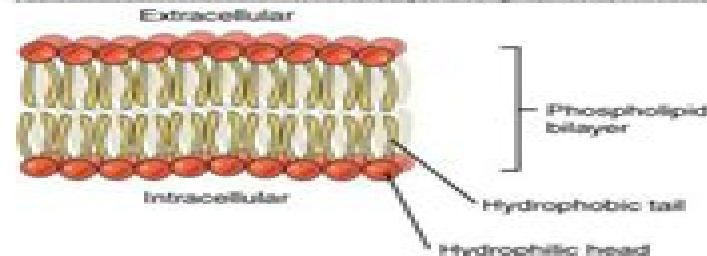
How can the small size and haploid state of prokaryotes accelerate their evolution?

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

M Woodhall



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