

Chapter 4 – Functional Anatomy of Prokaryotic and Eukaryotic Cells

1. Major differences between Prokaryotic And Eukaryotic Cells
 - a. Prokaryotic cells have one circular chromosome and no membrane while Eukaryotic cells have paired chromosomes in the nuclear membrane
 - b. Prokaryotic cells has no Histones and Eukaryotic cells have histones
 - c. Prokaryotic cells has no organelles and Eukaryotic cells have organelles
 - d. Prokaryotic cells are bacteria with peptidoglycan cell walls while Eukaryotic cells have a polysaccharide cell wall when present
 - e. Prokaryotic cells divides by the process of binary fission and Eukaryotic cells divide by mitosis
2. Shape of bacteria
 - a. Bacillus - Bacillus species are rod-shaped, endospore-forming aerobic or facultatively anaerobic, Gram-positive bacteria; in some species cultures may turn Gram-negative with age.
 - b. Coccus - any bacteria or archaeon that has a spherical, ovoid, or generally round shape, and comes in different forms that could be either gram +/-
 - c. Spirillum
 - d. Curved
3. Arrangement of bacteria
 - a. Cocci
 1. diplococci
 - a. gram negative diplo are dangerous
 2. streptococci
 - a. gram positive, strep throat
 3. tetrad
 - a. rare in clinical
 4. sarcinae
 5. staphylococcus
 - a. gram positive, causes staph infections, looks like grapes
 - b. Bacilli

Bacilli bacteria only really stay in one form and the other forms are pretty rare when looking at it in a clinical sense

 1. single bacillus
 2. coccobacillus
 3. diplobacilli
 4. streptobacillus
 - c. Summary of of the arrangement groups of bacteria
 - i. Pairs: diplococci and diplobacilli
 - ii. Cluster: staphylococci
 - iii. Chains: streptococci and streptobacilli
 - iv. Groups of Four: tetrad
 - v. Groups of Eight: Sarcinae

Fundamentals Of Microbiology Chapter Outline

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