Medical Microbiology Final Exam Study Guide

 To be able to draw and to label a gram positive and gram negative cell wall and membrane, to clearly mark intra vs. extracellular space and all chemicals involved in the cell wall structure.

2. To know what macromolecule is each of the structures from the cell membrane or wall. Provide the cellular function of each of these structures, to specify chemical bond that holds the atoms together that make up the macromolecules. What are the subunits of those macromolecules?

To know enzyme-substrate interactions.

4. To be able to compare a molecule of nucleotides to ATP.

5. To know structure and functions of the glycocalyx in bacterial cell.

To know the structures of bacterial cell that acts like an "invisibility cloak" and protects bacteria from being phagocytized, and photosynthetic pigments of bacteria.

7. To know (in details) ALL types of transmembrane transport.

To know similarities and differences between Plasma Membrane of pro- and eukaryotes.

9. To know glucose and oxygen transport mechanisms.

 To know bacterial cell's mobility mechanisms and differences between different bacteria.

11. To know specifics about bacterial DNA.

12. To be able to compare and contrast gram-positive and gram-negative cell walls with regard to (a) sensitivity to antimicrobial agents, (b) resistance to phagocytosis, (c) chemical composition, and (d) decolorization by alcohol.

To know the details for every step of Gram staining.

14. To know what contributions to microbiology attributed to the each World known scientists.

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