

Microbiology Test #2 Study Guide

Chapter 8:

- Review Questions 5, 6, 7, 9, 10, 11
- Be able to recognize antibiotic structures
- Be able to discuss what XDR-TB is, and several factors (genetic and societal) that contribute to its spread.
- How do the following antibiotics work: rifampicin, actinomycin D, aminoglycosides, tetracyclines, macrolides, lincosamides, chloramphenicol, oxazolidinones, streptogramin, mupirocin, penicillins, ethambutol, isoniazid, pyrazinamidase.
- Discuss the mechanisms for TB resistance to the following antibiotics: rifampicin, isoniazid, pyrazinamide, ethambutol, streptomycin, fluoroquinolones.
- What are efflux pumps, and how do they contribute to XDR-TB?
- What types of products are being developed to try to combat antibiotic resistance? Be able to discuss natural antimicrobials, new forms of old drugs, novel drug targets.

Chapter 9:

- Review Questions 1, 2, 3, 4, 6, 7, 8, 16, 17
- Discuss how the translocasome complex forms in *S. pneumoniae*. What extracellular signal triggers this process?
- Describe and differentiate between generalized and specialized transduction.
- Define Hfr, F⁺, F⁺ and F⁻ strains.
- Be able to draw and describe the components of transposons, insertion sequences and integrons.
- Discuss replicative vs. nonreplicative transposition.
- What is gene capture, and how does it lead to even worse problems with antibiotic resistance/virulence?
- How does gene transfer impact microbial evolution?

Chapter 10

- Review Questions 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14
- Know what Repressors, inducers and corepressors are.
- Be able to discuss how gene expression is controlled by alterations of DNA sequences, control of transcription and mRNA stability, translational control and posttranslational control – rank these in order of rapidity and reversibility.
- How does phase variation change our immune system's ability to respond to *Salmonella enterica*? Be able to describe the exact genetic mechanism.
- How does slipped-strand mispairing work, and how does it cause *Neisseria gonorrhoeae* to avoid our immune response? Again, be as specific as you can.
- What is catabolite repression?
- Discuss the role of cAMP-CRP in transcription regulation

Microbiology Study Guides And Tests

Mark Steyvers



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