

Medical Microbiology –BIOL4340

Spring Semester 2007 – T/Th 4:30-6pm

Instructor: Dr. Jonas Winchell

Email: zdx2@cdc.gov

Textbook: Medical Microbiology, 5th ed., Murray et. al.

Articles as Assigned

Lecture number	Topic
-----------------------	--------------

General

1. 1/09 Introduction, Grading, Overview of medically relevant pathogens [1]
2. 1/11 Immunology I [11, 14 pp.135-149]
3. 1/16 Immunology II [12 pp109-113,13]
4. 1/18 Evading and surviving the host defenses [19]
5. 1/23 Bacterial cell wall [3]
6. 1/25 Antibacterial agents [20]
7. 1/30 Mechanisms of resistance to antibiotics
8. 2/1 Laboratory Procedures for the Identification of Bacteria [21]
9. 2/6 **EXAM I (100pts)**

Bacterial Pathogens (& Prions)

- 10.2/8 *Bacillus anthracis* [25 pp.265-269]
- 11.2/13 *E. coli* (focus:O157:H7) [31 pp. 323-330]
- 12.2/15 *Yersinia pestis* [31 pp. 334-335]
- 13.2/20 *Legionella pneumophila* [38]
- 14.2/22 *Neisseria* spp. (*N. gonorrhoeae* & *N. meningitidis*) [30 pp311-320]
- 15.2/27 *Chlamydia* spp. [47 pp. 463-470]
- 16.3/1 *Bordetella* spp. [36]
- 17.3/6 *Pneumococcus* and Group A *Streptococcus*
- 18.3/8 *Borrelia burgdorferi* [43 pp. 433-438]
- 19.3/13 **Exam II (100pts.)**
- 20.3/15 Prions [67]

SPRING BREAK 3/19-3/23

Viral Pathogens

- 21.3/27 General Virology [49]
- 22.3/29 Viral pathogenesis [49 & pp.147-149]
- 23.4/3 Herpes Simplex viruses[54 pp.541-550]
- 24.4/5 HIV/AIDS [65]
- 25.4/10 Influenza viruses [60]
- 26.4/12 Influenza II

Parasitic Pathogens

- 27.4/17 Parasitology [79]
- 28.4/19 *Giardia lamblia* [pp. 850-852]
- 29.4/24 *Plasmodium* spp. [pp.861-865]
- 30.4/26 *Toxoplasma gondii* [pp.867-869]
- 31.4/30 **Final (150 pts.) 8 a.m. – 10:50 a.m.**

Grading: Exam I = 100pts
Exam II = 100pts
Class Partic. = 50pts
Final (Cumulative*) = 150pts
Total = 400pts

Although class attendance is not mandatory, it is strongly recommended that you attend every class. In addition, class participation is worth 50pts which requires attendance. If you do miss a class, YOU are responsible to get any handouts or notes from your classmates. Each exam and the final will be cumulative, however emphasis will be placed from the previous exam forward. As always, please ask questions whenever you don't understand something, or need clarification. I am available before classes by arrangement and immediately after most classes and you can email me any questions, but please do not wait until the last minute. Further, since I am only on campus for the days the class meets, make-up exams are extremely difficult to schedule and are discouraged for a variety of reasons. If absolutely necessary, an ORAL make-up exam may substitute at my discretion, contingent upon many factors, but mostly due to time. **Extra credit projects are not an option to raise a poor grade, therefore please prepare for each exam accordingly.** I truly hope you enjoy the class.