**2012 Microbial Pathogenesis (101 fall)**

# No. Date Topics Lecturer

1. 9/17 An overview of bacterial pathogenesis
2. 9/24 Antibacterial agents and resistant mechanism
3. 10/01 Applications of bioluminescence imaging on infectious diseases
4. 10/08 Endotoxins
5. 10/15 Bacterial adhesion and invasion of host cells
6. 10/22 Pathogenesis of *Escherichia coli* infection
7. 10/29 An overview of protozoan pathogenesis
8. 11/05 Immunity evasion by antigenic variation
9. 11/12 Midterm Exam
10. 11/19 An overview of viral pathogenesis
11. 11/26 Acute phase response in infection
12. 12/03 Virus and host interaction
13. 12/10 Viral hepatitis
14. 12/17 Viral evasion
15. 12/24 Viral oncogenesis
16. 1/07 Immunopathogenesis of viral infections
17. 1/14 Final Exam

References：

1. Viral Pathogenesis and Immunity, Neal Nathanson ed. 2002, Lippincott Williams & Wilkins.
2. Field's Virology, David M. Knipe, Peter M. Howley ed., 5th ed, 2007, Lippincott Williams & Wilkins.
3. Bacterial Pathogenesis: A Molecular Approach, Salgers & Whitt 2002, ASM Press.
4. Cellular Microbiology, Cossart et al. 2000, ASM Press.

Grading: Written examinations and/or assigned written report; Midterm Exam (50%), Final Exam (50%)

2012/8/23 v3 final