Pathogenic Bacteriology (Biol. 3711, 2016F)

Lecture: 11:30 - 1:00 pm, Tuesday and Thursday, RC1003 Instructor: Kam Leung CB 4024 (ktleung@lakeheadu.ca) Office Hours: Monday 2:30 - 3:30 pm or by appointment.

Outline of topics

- 1. Introduction
- 2. Approaches and methods in studying bacterial diseases.
- 3. First line of defense against bacterial infections.
- 4. Second line of defense against bacterial infections.
- 5. Vaccination.
- 6. Bacterial strategies against the human immune system.
- 7. Bacterial Exotoxins.
- 8. Antimicrobial compounds and antibiotic resistance.
- 9. Selective bacterial pathogens (may be changed depending on the progress of the course):
 - E. coli
 - Food-borne pathogens: Salmonella, Listeria and Campylobacter.
 - Staphylococcus, Streptococcus (Enterococcus) and Streptococcus pneumoniae
 - Pseudomonas aeruginosa and related species
 - Sexually transmitted bacterial infections: *Neisseria, Chlamydia* and *Treponema pallidum*

Examinations

Quizzes: Sept 20 (Tue), Oct 4 (Tue), Nov 10 (Thu), Nov 24 (Thu).

Mid-term exam: Oct 25, 2016 (Tue).

Final exam: TBA

Last day to Add: Sept 19, 2016 Last day to Drop: Nov 7, 2016 Last day of class: Dec 5, 2016

Four Quizzes total of 30%. One Mid-term Exam is worth 30%. The Final

exam is 40% and will cover materials in the whole course.

Textbook

Salyers and Whitt. 2011. Bacterial Pathogenesis: A molecular approach (3rd Edition). ASM Press, Washington, D.C.