BIOL-GA 1023 Hot Topics in Infectious Diseases

Instructor:
Carol Reiss

Course Description:
A detailed survey of some of the most important human microbial pathogens. Investigates these agents in detail and includes the most cutting-edge basic research findings, as well as epidemiology, treatment, and prevention of infections.

Pre-requisite:
Immunology (BIOL-UA 50) or Microbiology and Microbial Genomics (BIOL-UA 44) or Virology (BIOL-GA 1080)

Textbook and Required Materials:
N/A

Grading:
Exams 60%
Presentation 30%
Class discussion 10%

Topics:
Evolution & emergence of vector-borne viruses
Perinatal infections
Legionella
Streptococcal infections
HIV prevention & eradication
Cholera
Cytomegalovirus entry & tropism
Predatory bacteria
Association of HHV-6 and HHV-7 with Alzheimer’s Disease
Treatment of Plasmodium infections
Interferons
Antibiotic treatment of tuberculosis