An introduction to Mycobacteria, their phages, and tuberculosis

Introduction by Dr. Vassie Ware

Tuberculosis: A Persistent Threat to Global Health by Dr. John McKinney (iBioseminar)

Mycobacteriophage Genomics by Dr. Graham Hatfull (iBioseminar)


Bioscience in the 21st century, Fall 2011
New course theme: Infectious disease and Microbiology applications

Tuberculosis as a global health threat
~2 million deaths per year globally; death rate declining in US (2010)
1/3 of global population infected (latent)
2010: 9 million sick with TB globally
leading cause of death for HIV-infected individuals

Stages of TB from infection through transmission

Mycobacteriophage Genomics: Why?

Howard Hughes Medical Institute-sponsored Science Education Alliance Program:
National Genomics Research Initiative
Lehigh’s involvement in the Alliance

iBioseminars.org
seminars by Drs. John McKinney and Graham Hatfull
www.iBioseminars.org

**Required homework:**


2) Complete viewing of iBioseminar by Graham Hatfull, Bacteriophages, what are they? (Part 1) and View Part 3 (Mycobacteriophage Genomics). The latter video discusses the relevance of mycobacteriophage studies to the tuberculosis discussion.