L41 BIOL5358: Biochemical and Biophysical Investigations of Infectious Diseases Journal Club

Course syllabus; Spring 2016

Time and place: 11:00AM-noon Wed, Large conference room BJC-IH

Coursemasters:
Jeff Henderson  jhenderson@dom.wustl.edu
Tom Brett  tbrett@dom.wustl.edu

Synopsis: Biochemical and approaches continue to advance as powerful approaches to understand molecular mechanisms underlying human disease processes. This journal club covers recent papers in which these approaches address aspects of infectious diseases or inflammation. Each week, one student will present 1-2 papers along with accompanying background. Papers to be presented must be suggested by or approved by the coursemasters. The paper to be presented each week will be distributed to all students the week of the presentation. Students enrolling for credit will be expected to participate in weekly presentation discussions of data acquisition and interpretation. Presentations should be prepared to be about 25-30 minutes with the following general format:

1- Background describing scientific area and open questions/debates
2- State authors hypothesis/questions/goals
3- Slide(s) summarizing overall approach
4- present all figures/tables
5- overall critique: Summary; major and minor issues; alternative approaches
6- How could/will the findings of the paper be translated into new therapies/disease understandings (biomarkers), etc.

Prerequisites: Prior introductory coursework or labwork in biochemistry, physical chemistry, or Chemistry and Physics of Biomolecules (Bio 5357); coursework in microbiology or immunology is not required.