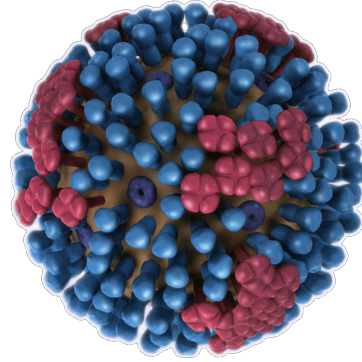


VIROLOGY DISCUSSION
MCB529
SYLLABUS



INSTRUCTOR:

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ABOUT ME:

I run a research group that studies how RNA viruses replicate, evolve, and cause disease. In particular, we explore how heterogeneity and collective interactions within viral populations shape the dynamics of influenza virus infection. We also study how the unique structure of the influenza virus genome influences how the virus evolves to evade host immune pressure.

COURSE DESCRIPTION:

Viruses are everywhere. They are intimately involved in the lives of all major life forms on earth and impose enormous public health and economic burdens upon human society. This course will use group discussion of primary literature focus to explore fundamental questions in virology.

COURSE OBJECTIVES:

1. Critically read primary scientific literature and evaluate experimental data and design.
2. Understand how to formulate specific research questions and define specific approaches to answer those questions.
3. Expand understanding of experimental approaches commonly used in virology research.

TEXTBOOK:

Required: Assorted articles that will be provided as PDFs

EVALUATION:

Each student will also be expected to lead discussion for one class session by presenting a paper of their choice to the class, as well as regularly participate in class discussion when they are not presenting. Grading will be based on regular active participation in class discussion, as well as performance in leading discussion.