



Principles of Virology and Viral Pathogenesis

Pathobiology 494-Offered Spring 2008

This course will emphasize basic principles of virus structure, replication and virus-cell/virus-host interaction that underlie the molecular biology, pathogenesis and transmission of viral disease

The Virus

“...a piece of bad news wrapped up in protein”

Viral structure, genomics and methods of study

Viruses and Cells

“ Win lose or draw”

From one to thousands: how inanimate virus particles enter cells, coordinate synthesis of their own macromolecules and assemble in the context of cellular structure and response

Viral Disease

“An intimate tango between virus and host”

How viruses choose their battlefield (tissue tropism), induce, evade and antagonize host immune responses, emerge, evolve and persist in hosts and populations.

Coverage of general principles will be complemented by discussion of selected viral and prion diseases including HIV/AIDS, influenza and bovine spongiform encephalopathy

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