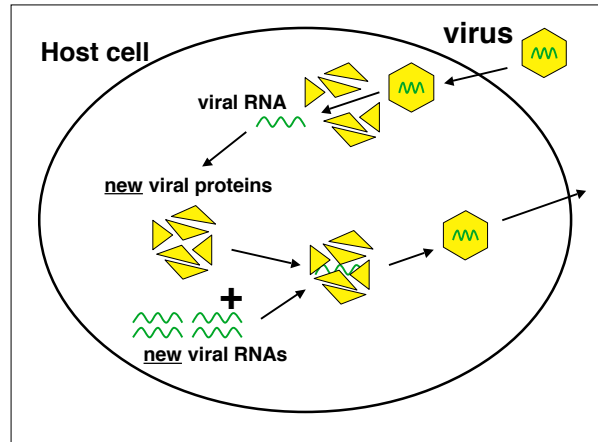
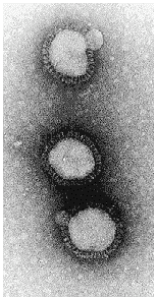


Influenza

- How does influenza virus:
 - Infect cells
 - Escape the immune system?
- Influenza 1918: PBS video
- Looking back and forward

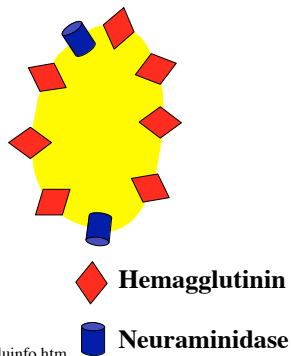


Influenza virus



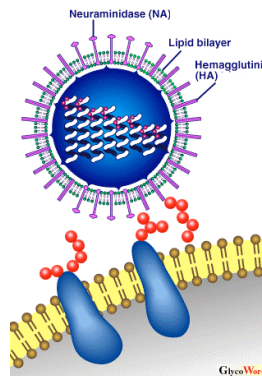
Electron micrograph

<http://www.cdc.gov/ncidod/diseases/flu/fluinfo.htm>



How does influenza virus recognize cells it will infect?

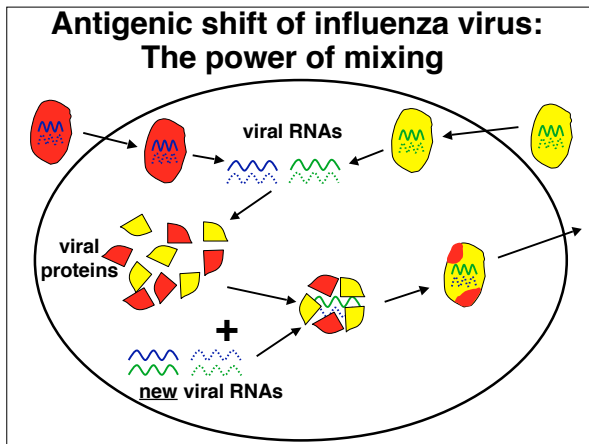
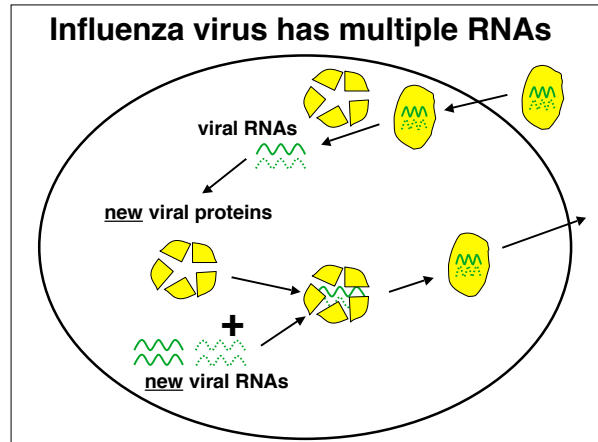
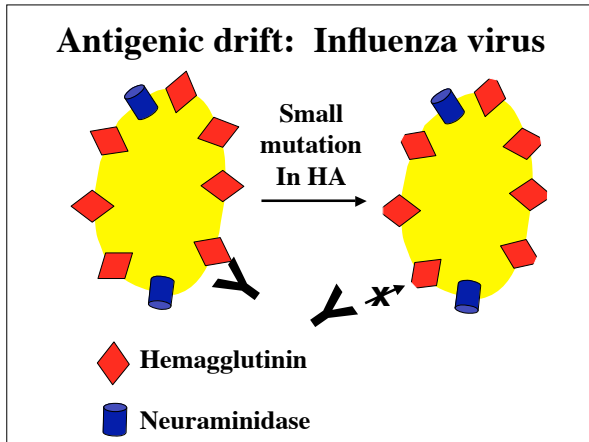
Hemagglutinin binds to sialic acid on cells!



GlycoWord

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<http://www.glycoforum.gr.jp/science/word/glycolipid/GLB01E.html>



Politics, science and epidemics

**“It’s hard to separate
likelihoods from consequences”**

Harvey Fineberg as quoted by L. Garrett
in *The Coming Plague*, p. 163

Looking back and forward

[Emerging Infectious Disease](#)
[Jan. 2006 special issue: Influenza](#)
http://www.cdc.gov/ncidod/eid/vol12no01/contents_v12n01.htm