Forming Immunity TOC #3

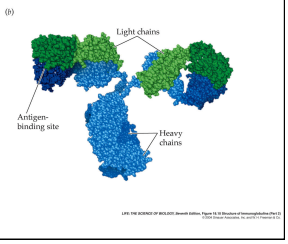
- Homework: Create a study guide or flash card set of all cell types
  - Due: Tomorrow
  - Must create something for binder (TOC#2)

Immune System Notes: Specific

C. Antibody Shape:

- *Y- Shaped*
- *Top of the Y has 2 spots that "Fit" an antigen*

(Antibody) (Antigen)

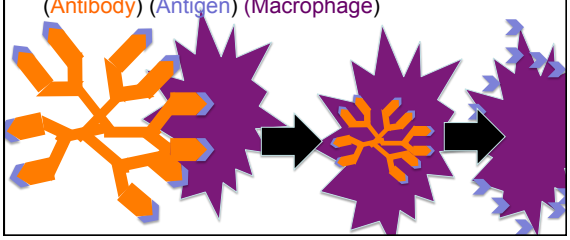


Immune System Notes: Specific

D. Antibody Function:

- *Grab Antigens and clump up*
- *Macrophages can come up and eat them pile of antibodies and antigen*

(Antibody) (Antigen) (Macrophage)

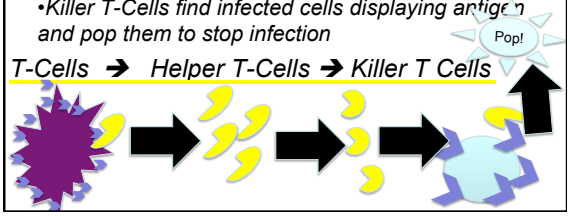


Immune System Notes: Specific

E. Cell-mediated Immunity

- *T-Cells identify and attach to the antigens on the macrophage and the T cell divides*
- *Those new T Cells can become helper T-Cells and then Killer T-Cells*
- *Killer T-Cells find infected cells displaying antigen and pop them to stop infection*

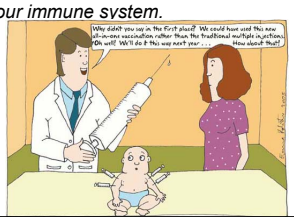
T-Cells ➔ Helper T-Cells ➔ Killer T Cells



Immune System Notes: Acquired

F. Active Immunity

- *Immunity after first exposure*
- *We can prepare our bodies so we have an active immunity if our bodies see the pathogen again.*
  - *Vaccine: Injecting a weakened form of the pathogen to "train" your immune system.*

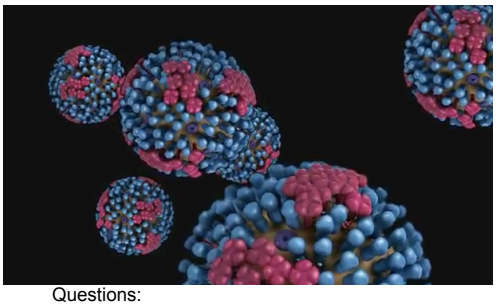


H1N1 Vaccine Production

B Cells - Specific Memory Cells

- A few b-cells become **memory cells**!
  - Vaccination triggers the immune system response, leaving you with memory cells.)

Flu Vaccine: Keeping Up With The Virus

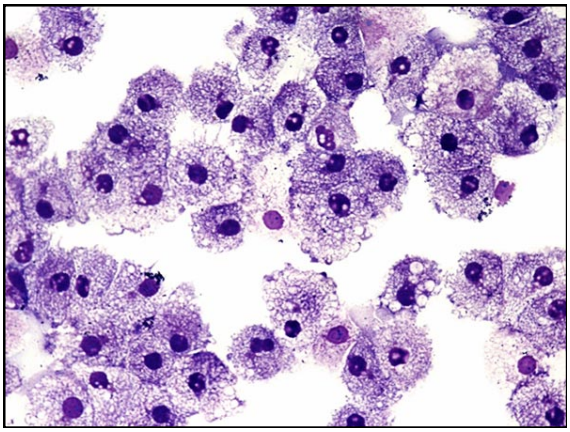


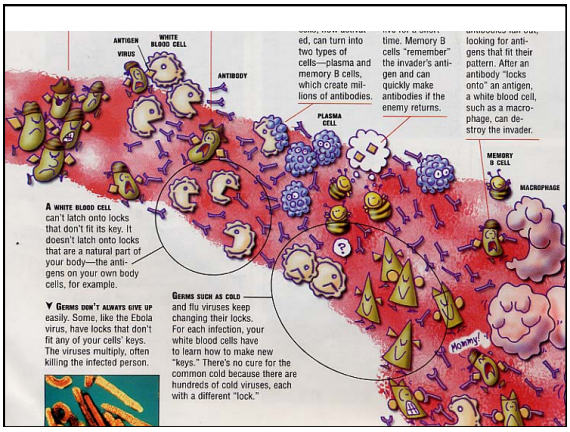
Questions:
1. Why do you need a vaccine every year?
2. What changes about viruses?

Immune System Notes: Acquired

G. Passive Immunity

- *Putting antibodies into our bodies*
  - *Natural: From your mom*
  - *Unnatural: Injected (ex: rabies vaccine)*





Immune system cartoon or user's manual
Due: Thurs/Friday, 2/28 or 3/1

- Include:
  - specific and nonspecific defenses
  - White blood cell
  - B cell
  - T Cell
  - Helper T Cell
  - Antibody
  - Antigen
  - Pathogen
  - Immune response
- At least a complete pencil-drawn layout of the whole cartoon.