

Specific Host Immunity and Applications

Text: Human Biology, by Mader. (pp. 144 - 153)

1. Acquired Defenses (pp. 144 - 142)
 - A. B Cells and Antibody-Mediated Immunity
 - i. B-cell receptors
 - ii. Plasma Cells
 - iii. Process of Activation (see handout)
 - B. Antibody Classifications (p. 146)
 - i. IgA
 - ii. IgG
 - iii. IgM
 - iv. IgA
 - C. T Cells and Cell-Mediated Immunity (pp. 147 - 149)
 - i. T-cell Receptors
 - ii. Antigen Presenting Cell (APC)
 - iii. Major Histocompatibility Complex
 - a. Class I
 - b. Class II
 - iv. Process of Activation (see handout)

- v. Cell Types and Functions
 - a. Helper T Cells
 - b. Cytotoxic T Cells
 - c. Memory T Cells
- 2. Acquired Immunity (pp. 149 - 152)
 - A. Immunization and Vaccines
 - i. How they work (see handout)
 - ii. Antibody Titer
 - iii. Primary and Secondary Exposures to Vaccines
 - B. Passive Immunity (p. 150)
 - i. IgA
 - ii. IgG
 - iii. Antisera (Gamma globulin)
 - C. Allergies (p. 152)