

## Properties and Overview of Immune Responses

## Chapter 1

- I. Definitions
  - A. Immunity
  - B. Immune system
  - C. Immune response
  - D. Immunology
- II. Innate Immunity
  - A. Defined
    - 1.+ rapid
    - 2.- limited recognition
    - 3.- same response level
  - B. Components
    - 1.physical & chemical barriers
    - 2.cells
    - 3.blood proteins
    - 4.cytokines
  - C. Defense lines
- III. Adaptive immunity
  - A. Defined
    - a. - delay
    - b. + large recognition
    - c. + increase in magnitude
  - B. Types of adaptive immune responses
    - 1.humoral
      - 1)antibodies
      - 2)antigens
    - a. active immunity
      - 1)naive
    - b. passive immunity
  - 2.cell mediated
- C. Properties of Adaptive Immune Responses
  - 1.diversity
    - a. clonal selection
  - 2.specifity
    - a)epitope
  - 3.memory
    - a. 1° immune response
    - b. 2° immune response
  - 4.contraction and homeostasis
    - a. apoptosis
  - 5.immunological self tolerance