

# Immunology Study Guide

## Chapter 3

### History of Immunology

- 1661 **Microbes** - first contemporary of immunity (animal plague)
  - 1700s **smallpox inoculation** first purposeful human immunity (only disease's natural disease agent)
- 1877 **Carlisle's children** - spontaneous human immunity
  - 1891 **inbred or inbred-inbred** state of autoimmunity (inbreeding)
- 1900 **early cellular immunity** - immunological development through lymphoid
- 1900 **classical humors** - humoral immunology (cellular immunity gone private)
  - 1902 **inbred mice made antibodies** (one made antibodies that were immunogenic and hyperimmune) (1902)
- 1902 **Paul Ehrlich** - coined **antigen** (antigen-antibody) term
- 1902 **Behring & Kitasato** - first **antibody** (diphtheria) (humoral) (antigen-antibody & antibodies)
- 1902 **Metchnikoff** - discovered the process of **phagocytosis** (cellular immunity)

### Antibodies and Immune Response

TABLE 3.1

Antibodies and Immune Response

Antibody	Immune Response	Effect
Neutralization	Neutralization	Prevents toxins, viruses, bacteria, and other pathogens from acting
Opsonization	Opsonization	Enhances phagocytosis of pathogens by phagocytes
Agglutination	Agglutination	Clumps pathogens, making them easier to remove
Complement activation	Complement activation	Enhances phagocytosis and kills pathogens

- 1902 **antibody** (antibody) - humoral immune response (antibody) (antigen-antibody) (antibody) (antibody)
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