

BIOLOGICAL FRAMEWORKS FOR ENGINEERS

Session #10 [nm: Immunology]

General Objectives:

- ✓ Introduction to components of the immune system
- ✓ Identify and discuss the basis for mutations

Central Framework:

- ✓ The immune response is a coordinated defense action consisting of identification, targeting and removal of foreign materials or organisms

Interactive Activity:

- ✓ Worksheet on blood type

Session Outline:

I. Immune System

A. Lymphatic System

B. Cells of the Immune System

T-Lymphocytes (T Cells)

Natural Killer Cells

B Lymphocytes (B Cells) / Plasma Cells

Monocyte / Macrophage

Granulocytes

C. Antibodies

D. Antigens

II. Immune Response

A. Complement System

B. Adaptive Immune System