

Immune System Study Guide

Name: _____

1. State what the lymphatic system is and its purpose.

Like the cardiovascular system, the lymphatic system consists of vessels and fluid and contains white blood cells (lymph). However, the fluid in the lymphatic system is called - leukocytes (not blood). Another difference is the presence of lymph nodes, which are small pea or bean-shaped structures that contain white blood cells. When we are sick, white blood cells accumulate in the lymph nodes, causing them to become swollen.

The lymphatic system "disinfects" excess fluid from the tissues before returning the fluid to the cardiovascular system via the right and left subclavian veins.

Word Bank: cardiovascular, fluid, leukocytes, lymph, nodes, sub-clavian veins

2. State the three lines of defense.

Line of Defense	Description
First	integumentary system and mucous membranes
Second	inflammatory response
Third	immune response

Word Bank: first, third, second

3. Describe the functions of white blood cells.

Term	Description
Mast cells	exocytose histamine to promote vasodilation
Neutrophils	destroy bacteria via phagocytosis (endocytosis)
Macrophages	destroy bacteria via phagocytosis (endocytosis); called monocytes when in the lymphatic vessels or blood vessels
B cells (B lymphocytes)	can become memory cells or plasma cells that produce antibodies
Killer T cells (cytotoxic T lymphocytes)	destroy infected cells, cells with specific antigens, and cancer cells by exocytosing cytotoxic molecules

Word Bank: B cells (B lymphocytes), killer T cells (cytotoxic T lymphocytes), macrophages, mast cells, neutrophils

Study Guide For Bio The Immune System

Albert Kaskel

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Complementary and Alternative Medicine, Part II: Herbal Supplements and Vitamins,

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