

Free epub Chapter 35 immune system and disease workbook answers Full PDF

your immune system is a large network of organs white blood cells proteins and chemicals these parts all work together to protect you from germs and other invaders your immune system also helps your body heal from infections and injuries the immune system is the body's tool for preventing or limiting infection its complex network of cells organs proteins and tissues enable the immune system to defend the immune system the complex group of defense responses found in humans and other advanced vertebrates that helps repel disease causing entities immunity from disease is conferred by two cooperative defense systems innate immunity and acquired immunity the immune system is a network of biological systems that protects an organism from diseases it detects and responds to a wide variety of pathogens from viruses to parasitic worms as well as cancer cells and objects such as wood splinters distinguishing them from the organism's own healthy tissue many species have two major subsystems of the immune system protects your child's body from outside invaders these include germs such as bacteria viruses and fungi and toxins chemicals made by microbes the immune system is made up of different organs cells and proteins that work together the immune system is designed to defend the body against foreign or dangerous invaders such invaders include microorganisms commonly called germs such as bacteria viruses and fungi parasites such as worms cancer cells transplanted organs and tissues the immune system has a vital role it protects your body from harmful substances germs and cell changes that could make you ill it is made up of various organs cells and proteins as long as your immune system is running smoothly you don't notice that it's there what is the immune system your immune system is a complex network of cells tissues and organs together they help the body fight infections and other diseases when germs such as bacteria or viruses invade your body they attack and multiply this is called an infection the infection causes the disease that makes you sick the immune system fights germs on the skin in the tissues of the body and in bodily fluids such as blood it is made up of the innate general immune system and the adaptive specialized immune system these two systems work closely together and take on different tasks go to the innate immune system fast and general effectiveness the immune system responds to antigens by producing cells that directly attack the pathogen or by producing special proteins called antibodies antibodies attach to an antigen and attract cells that will engulf and destroy the pathogen the main cells of the immune system are lymphocytes known as b cells and t cells your immune system works to root out germs and other invaders that have no business in your body for example if you inhale a cold virus through your nose your immune system is made up of individual cells and proteins as well as entire organs and organ systems the organs of the immune system include skin and mucous membranes blood and the organs of the lymphatic system the overall function of the immune system is to prevent or limit infection an example of this principle is found in immune compromised people including those with genetic immune disorders immune debilitating infections like hiv and even pregnant women who are susceptible to a range of microbes that typically do not cause infection in t cell receptors are protein complexes found on the surfaces of t cells these receptors are made of gene segments that can be mixed and matched to form up to 10¹⁵ different sequences when a t cell receptor finds a foreign antigen that it recognizes it signals the t cell to multiply and begin the process of eliminating the cells that display when we're younger the immune system quickly detects and neutralizes these mutant cells preventing them from growing however the immune system doesn't

recognize cancerous cells as easily as we age your immune system is your body's defense against infections and other harmful invaders without it you would constantly get sick from bacteria or viruses your immune system is made up of special cells tissues and organs that work together to protect you your immune system is a complex network of organs cells and tissues that defend your body against foreign substances such as bacteria viruses and toxins the immune response is recorded in your body so that if a foreign substance enters your body again the immune system can often quickly remove it the role of the immune system a collection of structures and processes within the body is to protect against disease or other potentially damaging foreign bodies the immune system defends the body from infection and includes a complex network of cells chemicals tissues and organs the immune system recognises invaders such as bacteria viruses and fungi as well as abnormal cells like cancer cells and then helps the body fight the invasion the immune system includes primary lymphoid organs secondary lymphatic tissues and various cells in the innate and adaptive immune systems learning objectives recognize the cells and organs of the immune system and their functions

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