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introduction to the three types of muscle tissue skeletal smooth and cardiac learn about their structure and functions here muscle tissue is characterized by properties that allow movement muscle cells are excitable they respond to a stimulus they are contractile meaning they can shorten and generate a pulling force this chapter will begin with a general overview of all muscle tissue types comparing and contrasting basic location structure and function this chapter ends with a discussion of muscle tissue physiology the effect of exercise on muscle tissue and aging muscle is the tissue in animals that allows for active movement of the body or materials within the body there are three types of muscle tissue skeletal muscle cardiac muscle and smooth muscle most of the body s skeletal muscle produces movement by acting on the skeleton muscle tissue is a specialized tissue found in animals which functions by contracting thereby applying forces to different parts of the body muscle tissue consists of fibers of muscle cells connected together in sheets and fibers muscle is the tissue in animals that allows for active movement of the body or materials within the body there are three types of muscle tissue skeletal muscle cardiac muscle and smooth muscle most of the body s skeletal muscle produces voluntary movement by acting on the skeleton it has striations long rod shaped cells muscle is the tissue in animals that allows for active movement of the body or materials within the body there are three types of muscle tissue skeletal muscle cardiac muscle and smooth muscle most of the body s skeletal muscle produces movement by acting on the skeleton identify the three types of muscle tissue compare and contrast the functions of each muscle tissue type explain how muscle tissue can enable motion muscles are pieces of soft tissue throughout your body they help you do everything from holding your body still to running a marathon muscles also move and support your organs your heart is a hard working muscle that beats thousands of times a day to keep you alive these tissues include the skeletal muscle fibers blood vessels nerve fibers and connective tissue each skeletal muscle has three layers of connective tissue called myofascia that enclose it and provide structure to the muscle as a whole and also compartmentalize the muscle fibers within the muscle figure 10 3 a muscle is a group of muscle tissues which contract together to produce a force a muscle consists of fibers of muscle cells surrounded by protective tissue bundled together many more fibers all surrounded in a thick protective tissue a muscle uses atp to contract and shorten producing a force on the objects it is connected to in the muscular system muscle tissue is categorized into three distinct types skeletal cardiac and smooth each type of muscle tissue in the human body has a unique structure and a specific role skeletal muscle moves bones and other structures cardiac muscle contracts the heart to pump blood muscle tissue is a soft tissue that makes up most of the tissues in the muscles of the human muscular system other tissues in muscles are connective tissues such as tendons that attach skeletal muscles to bones and sheaths of connective tissues that cover or line muscle tissues learning objectives by the end of this section you will be able to identify the three types of muscle tissue compare and contrast the functions of each muscle tissue type explain how muscle tissue can enable motion muscle tissue is characterized by properties that allow movement muscle cells are excitable they respond to a stimulus 1 3 synonyms cardiac striated muscle myocardium show more muscle cells commonly known as myocytes are the cells that make up muscle tissue there are 3 types of muscle cells in the human body cardiac skeletal and smooth cardiac and skeletal myocytes are sometimes referred to as muscle fibers due to their long and fibrous shape there are four basic tissue types defined by their morphology and function epithelial tissue connective tissue muscle tissue and nervous tissue epithelial tissue creates protective boundaries and is involved in the diffusion of ions and molecules introduction the musculoskeletal system comprises one of the body s major tissue organ systems the three main types of muscle tissue are skeletal cardiac and smooth muscle groups 1 2 3 skeletal muscle attaches to the bone by tendons and together they produce all body movements muscle tissue is subdivided into three broad categories skeletal muscle cardiac muscle and smooth muscle the three types of muscle can be distinguished by both their locations and their microscopic features introduction there are three major muscle types found in the human body skeletal cardiac and smooth muscle each muscle type has unique cellular components physiology specific functions and pathology skeletal muscle is an organ that primarily controls movement and posture muscle is one of the four primary tissue types of the body and the body contains three types of muscle tissue skeletal muscle cardiac muscle and smooth muscle figure 10 2

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