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it is subdivided into two broad systems muscular system which includes all types of muscles in the body skeletal muscles in particular are the ones that act on the body joints to produce movements besides muscles the muscular system contains the tendons which attach the muscles to the bones the muscular system is an organ system consisting of skeletal smooth and cardiac muscle it permits movement of the body maintains posture and circulates blood throughout the body 1 the muscular systems in vertebrates are controlled through the nervous system although some muscles such as the cardiac muscle can be completely autonomous human muscle system the muscles of the human body that work the skeletal system that are under voluntary control and that are concerned with movement posture and balance broadly considered human muscle like the muscles of all vertebrates is often divided into striated muscle or skeletal muscle smooth muscle and cardiac muscle the muscular system is a set of tissues in the body with the ability to change shape muscle cells connect together and eventually to elements of the skeletal system when the muscle cells contract force is created as the muscles pull against the skeleton overview the muscular system is made up of muscle tissue and is responsible for functions such as maintenance of posture locomotion and control of various circulatory systems this includes the beating of the heart and the movement of food through the digestive system human body maps muscular system muscular the primary job of muscles is to move the bones of the skeleton but muscles also enable the heart to beat and constitute the walls of other vital key terms the musculoskeletal system in the musculoskeletal system the muscular and skeletal systems work together to support and move the body the bones of the skeletal system serve to protect the body s organs support the weight of the body and give the body shape human musculoskeletal system the human musculoskeletal system also known as the human locomotor system and previously the activity system is an organ system that gives humans the ability to move using their muscular and skeletal systems the musculoskeletal system provides form support stability and movement to the body muscular system cardiovascular system respiratory system nervous system central nervous system peripheral nervous system somatic and autonomic nervous systems digestive system urinary system endocrine system lymphatic system reproductive system integumentary system sources related articles show all skeletal system the musculoskeletal system also known as the human locomotor system is the framework of the body it is controlled by the nervous system and comprised of bones muscles joints and the many connective tissues that bind them together among its many important functions the musculoskeletal system gives your body shape how your muscular system works emma bryce youtube ted ed 20m subscribers subscribed 32k 2 5m views 6 years ago check out our patreon page teded view full lesson the muscular system is an organ system responsible for providing strength keeping up the balance maintaining posture allowing movement and producing heat it includes all the muscle tissues such as the skeletal muscle tissues smooth muscle tissues and cardiac muscle tissues 1 mobility the muscular system s main function is to allow movement when muscles contract they contribute to gross and fine movement gross movement refers to large coordinated motions and muscles are tissue smooth muscle tissue lines some of your organs but most organs are also made of other types of tissue too providers sometimes refer to the muscular system as one anatomical group that includes all your muscles they might also include muscles as parts of other systems throughout your body biology molecular computational biology september 1 2020 different responses in individual cells give muscles more control by university of tokyo skeletal muscle tissue credit 04 mar 2010 2 min read erico guizzo is ieee spectrum s digital innovation director kojiro is an advanced musculoskeletal humanoid robot under development at the university of tokyo s jsk robotics laboratory kojiro s creators designed its body to mimic the way our skeleton muscles and tendons work to generate motion article artificial muscles review article robotics published 20 april 2022 volume 61 pages 270 293 2022 cite this article download pdf journal of computer and systems sciences international aims and scope a p aliseichik d a gribkov a r efimov i a orlov v e pavlovsky a v podoprosvetov i v khaidukova the muscular system learn about the three types of muscle as you use our 3d models to explore the anatomical

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