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tissues are organized into four broad categories based on structural and functional similarities these categories are epithelial connective muscle and nervous the primary tissue types work together to contribute to the overall health and maintenance of the human body although there are many types of cells in the human body they are organized into four broad categories of tissues epithelial connective muscle and nervous each of these categories is characterized by specific functions that contribute to the overall health and maintenance of the body as we saw above every organ is made up of two or more tissues groups of similar cells that work together to perform a specific task humans and other large multicellular animals are made up of four basic tissue types epithelial tissue connective tissue muscle tissue and nervous tissue tissues are groups of cells that have a similar structure and act together to perform a specific function the word tissue comes from a form of an old french verb meaning to weave there are four different types of tissues in animals connective muscle nervous and epithelial 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 i define tissue and describe the importance of tissue level organization to an organism ii describe the structure and function of epithelial connective muscle and nervous tissue iii identify the distinguishing characteristics of these tissues iv give examples to most common locations of these tissues the term tissue is used to describe a group of cells found together in the body the cells within a tissue share a common embryonic origin microscopic observation reveals that the cells in a tissue share morphological features and are arranged in an orderly pattern that achieves the tissue s functions in biology tissue is an assembly of similar cells and their extracellular matrix from the same embryonic origin that together carry out a specific function tissues occupy a biological organizational level between cells and a complete organ accordingly organs are formed by the functional grouping together of multiple tissues tissue in physiology a level of organization in multicellular organisms it consists of a group of structurally and functionally similar cells and their intercellular material by definition tissues are absent from unicellular organisms learn more about tissues in this article although there are many types of cells in the human body they are organized into four broad categories of tissues epithelial connective muscle and nervous each of these categories is characterized by specific functions that contribute to the overall health and maintenance of the body the trillions of cells working together form 4 basic tissue types epithelial connective muscle and nerve fig 4 2 four types of tissue epithelial tissue also referred to as epithelium refers to the sheets of cells that cover exterior surfaces of the body line internal cavities and passageways and form certain glands connective tissue identify the three major germ layers identify the main types of tissue membranes the term tissue is used to describe a group of cells found together in the body the cells within a tissue share a common embryonic origin 61k 5 6m views 9 years ago anatomy physiology in this episode of crash course anatomy physiology hank gives you a brief history of histology and introduces you to the different types and groups of connected cells form tissues the cells in a tissue may all be the same type or they may be of multiple types in either case the cells in the tissue work together to carry out a specific function there are four main types of human tissues connective epithelial muscle and nervous tissues there are four main types of human tissues connective epithelial muscle and nervous tissues we use tissues to build organs and organ systems the 200 types of cells that the body can produce based on our single set of dna can create all the types of tissue in the body epithelial tissue epithelial tissue although there are many types of cells in the human body they are organized into four broad categories of tissues epithelial connective muscle and nervous each of these categories is characterized by specific functions that contribute to the overall health and maintenance of the body the term tissue is used to describe a group of cells found together in the body the cells within a tissue share a common embryonic origin microscopic observation reveals that the cells in a tissue share morphological features and are arranged in an orderly pattern that achieves the tissue s functions connective tissue is a term used for various types of tough fibrous matter like tendons or ligaments most of the time in first aid we refer to tissues more than cells cells are typically microscopic while tissues can 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