

Structure and Function of the Human Body

Structure of the body - is how the body and its parts are arranged and organized

Function of the body - is the purpose of the various parts of the body and how they work

Body Systems

A system is a group of organs working together to perform certain functions. (eg. the urinary system is made up of kidneys, ureters, bladder, urethra). The human body can be divided into ten systems:

SYSTEM	FUNCTION	ORGANS
SKIN	Protects the body against infection, regulates body temperature, eliminates some wastes	Skin, hair, nails, sweat and oil glands
NERVOUS	Coordinates body functions	Brain, spinal cord, spinal nerves, cranial nerves, special senses such as eyes and ears
MUSCULO-SKELETAL	Supports and protects body parts; allows the body to move	Muscles, bone, joints, ligaments, tendons
RESPIRATORY	Brings in oxygen and eliminates carbon dioxide	Nose, pharynx, larynx, trachea, bronchi, lungs, sinuses
CARDIO-VASCULAR	Transports materials around the body. Carries oxygen and nutrients to the cells and carries waste products away	Heart, arteries, capillaries, veins, spleen, lymph nodes, lymphatic vessels, blood, lymph
DIGESTIVE	Digests, transports food, absorbs nutrients, and eliminates wastes	Mouth, esophagus, pharynx, stomach, small intestines, large intestines, salivary glands, teeth, tongue, liver, gallbladder, pancreas
URINARY	Manages fluids and electrolytes of body, eliminates liquid wastes	Kidneys, ureters, urinary bladder, urethra
REPRODUCTIVE	Reproduces the species, fulfills sexual needs, develops sexual identity	<i>Male:</i> Testes, epididymis, urethra, seminal vesicles, ejaculatory duct, prostate gland, bulbo-urethral glands, penis, spermatic cord. <i>Female:</i> Breasts, ovaries, oviducts, uterus, vagina, Bartholin glands, vulva

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ML Morrison

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Carotenoids: Structure and Function in the Human Body Muhammad Zia-Ul-Haq,Saikat Dewanjee,Muhammad Riaz,2021-02-17 Plants produce chemicals as part of their normal metabolic activities These include primary metabolites found in all plants such as sugars and fats as well as secondary metabolites which can have therapeutic effects in humans and be refined to produce drugs Plants synthesize a bewildering variety of phytochemicals but most are derivatives of a few biochemical motifs Numerous herbal derived substances have been evaluated for their therapeutic potential These include alkaloids coumarins saponins plant pigments and flavonoids Flavonoids carotenoids and anthocyanins are probably the best known of these substances due to their antioxidant properties Carotenoids Structure and Function in the Human Body presents comprehensive coverage of carotenoids The text covers the scientific literature and clinical significance of this organic pigment with an emphasis on its therapeutic potential The authors approach carotenoids from a range of perspectives from their structural and physicochemical properties to their distribution in nature interaction with the human metabolism and use as a coloring agent in various products The intake metabolism and secretion of anthocyanins in the human body are covered in depth as are the biosynthetic pathways through which these compounds are synthesized in the natural system Factors affecting stability and extraction are listed and health related uses and biological activities are covered in great detail Present and future trends in carotenoid research are also presented This book provides a solid background in carotenoids for researchers and professionals in food science food technology nutrition biology chemistry and medical sciences

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web oct 23 2023 today amphibians are represented by frogs and toads order anura newts and salamanders order caudata and caecilians order gymnophiona these three orders of living amphibians are thought to derive from a single radiation of ancient amphibians and although strikingly different in body form they are probably the closest

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