

Digestive System Class 10

buccal mass (including the mouth, pharynx, and retractor muscles of the pharynx... 74e4b1088e

Enteric nervous system The ENS is formed from the myenteric plexus, and the submucosal plexus, and consists of a mesh-like system of neurons that governs the functions of the gastrointestinal tract, including motility and secretion, and is often referred to as the "second brain". It is derived from neural crest cells. The word is derived from New Latin and comes The enteric nervous system (ENS) is one of the three divisions of the autonomic nervous system (ANS), the others being the sympathetic nervous system (SNS) and parasympathetic nervous system (PSNS). peristalsis is found in the smooth muscles of the digestive tract to propel contents through the digestive system 74e4b1088e

A number of species have developed special adaptations to feeding, such as the "drill" of some limpets, or the harpoon of the neogastropod genus *Conus*. Filter feeders use the gills, mantle lining, or nets of mucus to trap their prey, which they then pull into the mouth with the radula. The highly modified parasitic genus *Enteroxenos* has no digestive tract at all, and simply absorbs the blood of its host through the body wall. 74e4b1088e In particular, the radula is often highly adapted to the specific diet of the various group of gastropods. Another distinctive feature of the digestive tract is that, along with the rest of the visceral mass, it has undergone torsion, twisting around through 180 degrees during the larval stage, so that the anus of the animal is located above its head. 74e4b1088e The digestive system usually has the following parts: 74e4b1088e The enteric nervous system is capable of operating independently of the brain and spinal cord, but is thought to rely on innervation from the vagus nerve and prevertebral ganglia in healthy subjects.

However, studies have shown that the system is operable with a severed vagus nerve. The neurons of the enteric nervous system control the motor functions of the system, in addition to the secretion of gastrointestinal enzymes. These neurons communicate through many neurotransmitters similar to the central nervous system (CNS), including acetylcholine, dopamine, and serotonin. The large presence of serotonin and dopamine in the intestines are key areas of research for neurogastroenterology. 74e4b1088e

Circulatory system blood cells, and platelets. The digestive system also works with the circulatory system to provide the nutrients the system needs to keep the heart pumping 74e4b1088e

Digestive system of gastropods Gastropods (snails and slugs) as the largest taxonomic The digestive system of gastropods has evolved to suit almost every kind of diet and feeding behavior. Gastropods (snails and slugs) as the largest taxonomic class of the mollusca are very diverse: the group includes carnivores, herbivores, scavengers, filter feeders, and even parasites. The digestive system of gastropods has evolved to suit almost every kind of diet and feeding behavior 74e4b1088e

Digestive enzymes are classified based on their target substrates: lipases split fatty acids into fats and oils; 74e4b1088e

Digestive enzyme Most of the enzymatic activity, and hence absorption takes place in the duodenum. Food consists of macromolecules of Digestive enzymes take part in the chemical process of digestion, which follows the mechanical process of digestion. Initial breakdown is achieved by chewing (mastication) and the use of digestive enzymes of saliva. Food consists of macromolecules of proteins, carbohydrates, and fats that need to be broken down chemically by digestive enzymes in the mouth, stomach, pancreas, and duodenum, before being able to be absorbed into the bloodstream. Digestive enzymes take part in the chemical process of digestion, which follows the mechanical process of digestion. Digestive gastric enzymes take part in some of the chemical process needed for absorption. Once in the stomach further mechanical churning takes place

mixing the food with secreted gastric juice 74e4b1088e

amylases split... 74e4b1088e == Structure... == 74e4b1088e

Immune system foreign substances by the immune system. Conversely, non-self molecules are those recognized as foreign molecules. One class of non-self molecules is called 74e4b1088e

Reproductive system of gastropods reproductive system of gastropods (slugs and snails) varies greatly from one group to another within this very large and diverse taxonomic class of animals 74e4b1088e

Digestive enzymes are found in the digestive tracts of animals (including humans) and in the tracts of carnivorous plants, where they aid in the digestion of food, as well as inside cells, especially in their lysosomes, where they function to maintain cellular survival. 74e4b1088e

Ruminant The word ruminant comes from the Latin *rūminārī*, "to ruminate", from *rūmen*, the first stomach. The process of rechewing the ingesta to further break down plant matter and stimulate digestion is called rumination or chewing the cud. microbial actions. The process, which takes place in the front part of the digestive system and therefore is called foregut fermentation, typically requires the Ruminants are herbivorous grazing or browsing artiodactyls belonging to the suborder Ruminantia that are able to acquire nutrients from plant-based food by fermenting it in a specialized stomach prior to digestion, principally through microbial actions. The process, which takes place in the front part of the digestive system and therefore is called foregut fermentation, typically requires the fermented ingesta (known as cud) to be regurgitated and chewed again 74e4b1088e

The roughly 200 species of ruminants include both domestic and wild species. Ruminating mammals include cattle, all domesticated and wild bovines, goats, sheep, giraffes, deer, gazelles, and antelopes. It has also

been suggested that notoungulates also relied on rumination, as opposed to other atlantogenatans that rely on the more typical hindgut fermentation, though this is not entirely certain. 74e4b1088e == Skeletal system == 74e4b1088e

Bird anatomy development of a beak has led to evolution of a specially adapted digestive system. Birds have a light skeletal system and light but powerful musculature which, along with circulatory and respiratory systems capable of very high metabolic rates and oxygen supply, permit the bird to fly. Birds have many bones that are hollow (pneumatized) with criss-crossing Bird anatomy, or the physiological structure of birds' bodies, shows many unique adaptations, mostly aiding flight. The development of a beak has led to evolution of a specially adapted digestive system 74e4b1088e

proteases and peptidases split proteins into small peptides and amino acids; 74e4b1088e Ruminants represent the most diverse group of living ungulates. The suborder Ruminantia includes six different... 74e4b1088e

Endocrine system [citation needed] The pancreatic endocrine cells include alpha. The acini secrete digestive enzymes. organ's endocrine cells that secrete hormones, and acini 74e4b1088e

Sympathetic nervous system Sympathetic nervous system stimulation causes vasoconstriction of most blood vessels, including many of those in the skin, the digestive tract, and the kidneys 74e4b1088e

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