

The structure of mammalian teeth and their role in digestion

The function of teeth is to physically break down food into smaller pieces and so increase the surface area for enzyme activity (chemical breakdown).

Humans have four types of teeth: incisors, canines, premolars and molars. They are shown in Figure 2.8.3.

Incisors are flat sharp teeth specialised for cutting and biting. Humans have four upper and lower incisors in the centre of the mouth. On either side of the four incisors are two canines—one on each side. They are less prominent in humans than in carnivores but they still show the characteristic pointed shape. They are adapted for ripping and tearing food. Premolars and molars are on either side of the canines and are used for grinding and crushing food. They are especially important in herbivores as they have projections on their surface called *cusps*, which can be used to grind and crush plant food for long periods of time.

Herbivore teeth differ from carnivore teeth in that the canines are absent or very small. The premolars and molars are the most prominent teeth. They physically break down the plant food. Plant food contains cellulose, which can only be broken down to release the cell contents after much crushing and grinding. Some herbivores have no upper incisors. The upper incisors are replaced by a thick pad and the lower incisors bite against this pad. The diagrams in Figure 2.8.4 of a carnivore and herbivore skull show the position and relative size of the teeth.

A review of the human digestive system

Like all mammals, the digestive system of a human contains a tube through the body from mouth to anus; it is called the **alimentary canal**. This is considered to be 'outside' the body and entry to the blood is entry to the internal environment of the cells.

The human digestive system is an example of a mammalian digestive system. Figure 2.8.5 shows the structure of the human digestive system.

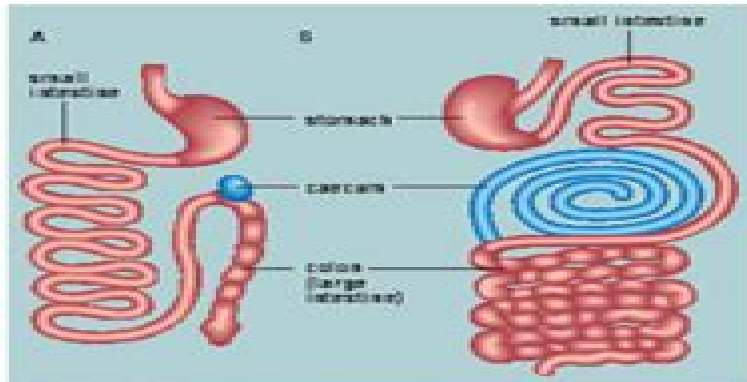


Figure 2.8.6 The digestive systems of (A) a carnivore (a dog) and (B) a herbivore (a horse)

A comparison of the digestive system of a carnivore and a herbivore

Many animals are herbivores—they eat grass. The main material in grass is cellulose. But are you aware that no animal system can digest cellulose? Different animals have different solutions to this problem.

One solution is the presence of a long caecum. In carnivores, the caecum is short and has no function. The problem for herbivores is that the cellulose cell wall is a good source of nutrients, for example, glucose and animals do not have the enzyme cellulase to digest the cellulose. They overcome this problem by grinding up the food for some time and then utilising bacteria and/or protozoa that exist in the caecum and contain cellulase. Not only do the microbes digest the cellulose to glucose but they convert some of the sugar to other nutrients required by the animal. The relation between the microbes and the herbivores is symbiotic, i.e. both organisms benefit. The microbes have a constant environment containing an ample food supply. The long caecum provides a large surface area for the action of bacterial enzymes to digest cellulose and release the nutrients into the small intestine for digestion. A longer



The mesh-coiled intestine of the tadpole is far longer relative to the size of the animal than the intestine of the adult frog

Figure 2.8.7 A comparison of the digestive system of a tadpole and an adult frog

Biology In Context The Spectrum Of Life

Clemens Wendtner



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