

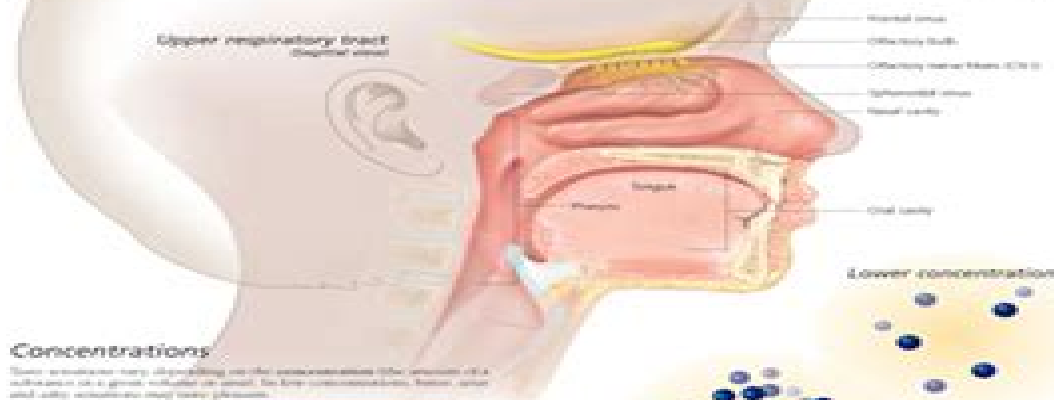


PHYSIOLOGY SERIES

Taste & Smell

Taste & smell

Most of our special senses are chemoreception systems: gustation (taste) and olfaction (smell). The degree to which we respond to taste or olfaction, how many and how well we respond to different molecules depends on their chemical structure and on the number of receptors that respond to molecules dissolved in fluid (taste) and in air (smell). The sense of taste is less discriminatory than the sense of smell, and there is an overlap between taste receptors. The sense of smell is highly discriminatory, with several types of olfactory receptors, each responding to particular molecules. Taste and olfaction are related to smell, vision and hearing, important with the sense of food substances, but taste is particularly affected by the sense of smell.



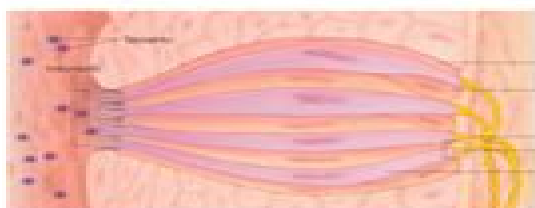
Concentrations

Taste molecules vary depending on the concentration. The amount of a substance in a given volume of air, for low concentrations, taste, color and odor molecules may vary linearly.



Gustation

Gustation, the sense of taste, gives us information about the food and drink that we consume. Taste buds on the primary gustatory organ, the tongue, have taste buds containing chemoreceptor cells called gustatory cells. These taste buds have four types of receptors: sweet, sour, bitter and salty. A fifth taste, umami, or savory, has been reported. This flavor is associated with umami, or the good flavor of meat, fish, and other foods.



The taste bud

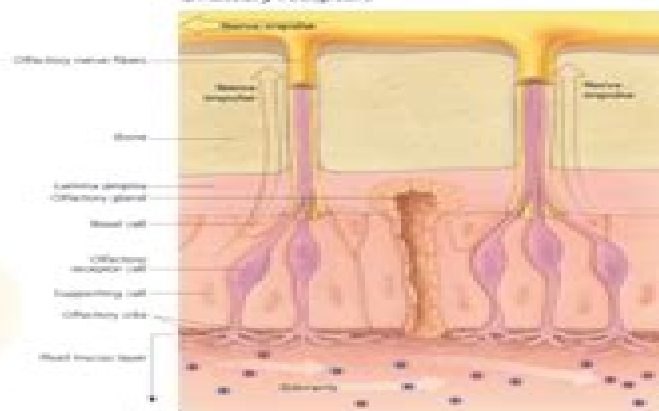
Umami, substances that produce taste, bind to receptor molecules on the surface of the microvilli. The resulting receptor potential travels to the basal end of the gustatory cell, where the signal is chemically transmitted to the supporting cell by molecular messengers. Supporting cells then release taste buds, after which they are replaced by new cells generated from basal cells at the base of the taste buds.

Olfaction

The sense of smell is called olfaction, or the detection of odors. Olfaction depends on specialized chemical receptors, or chemoreceptors, located within the olfactory epithelium. These receptors are designed to respond to small amounts of an odorant, a molecule that can be smelled. The brain integrates the input from several different receptors to identify a particular odor. Humans can detect about 10,000 odors.

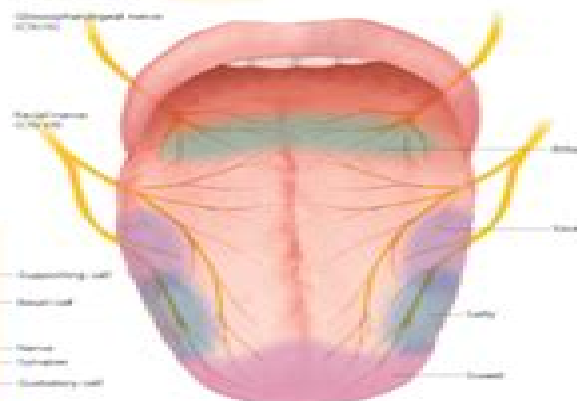
As air flows through the nose, the odors across the nasal cavity pass through the olfactory epithelium, bringing odorant molecules into contact with the olfactory nerve, leading to the ability to detect odors by increasing the volume of air inhaled, which can increase the number of receptors.

Olfactory receptors

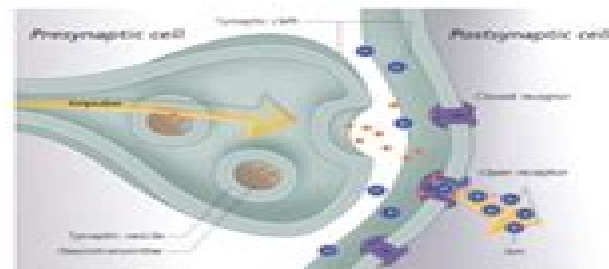


Olfactory receptors

Olfaction depends on the olfactory epithelium, which is located in the olfactory bulb. The olfactory epithelium is a specialized tissue that is located in the upper part of the nasal cavity. It is made up of olfactory cells, supporting cells, and olfactory cilia. The olfactory cells are connected directly to the olfactory bulb, rather than through the olfactory nerve.



Compound sweet and salty tastes, we are left with more receptors to detect umami, and about 1,000 receptors are sensitive to bitter tastes. The taste buds are located on the tongue, and the taste hairs (microvilli) extend into the taste pore. The taste hairs are made of keratin, and they are covered with taste hairs (microvilli). The taste hairs are made of keratin, and they are covered with taste hairs (microvilli). The taste hairs are made of keratin, and they are covered with taste hairs (microvilli).



The synapse

Neurons communicate with other cells at a synapse, the site of a nerve impulse transmission. The space between the presynaptic, or sending, neuron and the postsynaptic, or receiving, cell is called the synaptic cleft. An impulse enters at the tip of the axon, the terminal button, where "neurotransmitter" molecules called neurotransmitters. These highly specialized chemicals carry nerve impulses from the presynaptic cell to the postsynaptic cell, where they bind to receptors on the postsynaptic cell, which then release the signal to the next cell.

Smell And Taste

J Ma



Smell And Taste:

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