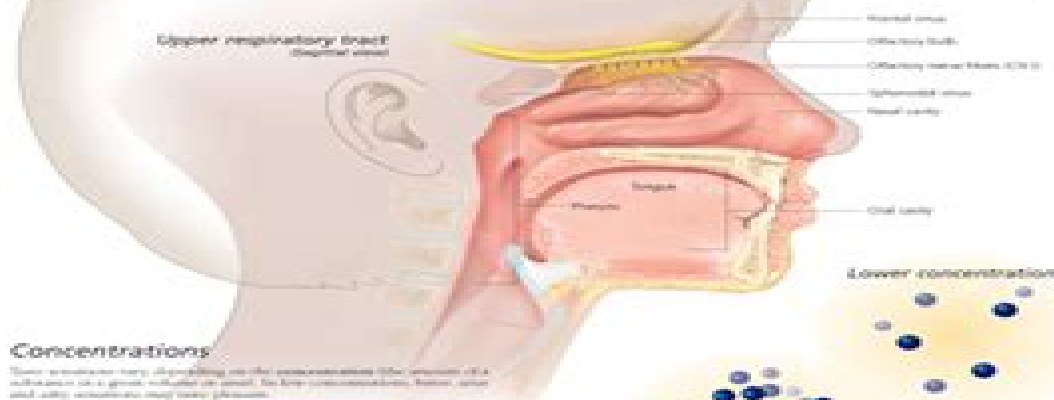




# Taste & Smell

## Taste & smell

Most of our special senses are chemoreception systems: gustation (taste) and olfaction (smell). The degree to which we can respond to taste or olfaction, thereby using smell and taste to control olfactory receptor cells that respond to molecules dissolved in fluid (taste) and solid (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 odors. Taste and olfaction are related to smell, vision and hearing, important with the sense of touch, but taste is particularly affected by the sense of smell.



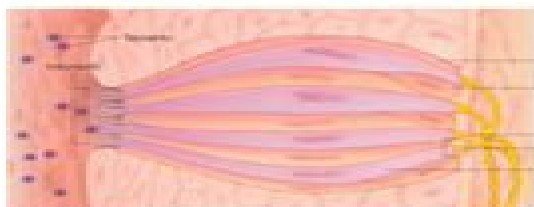
## Concentrations

Taste receptors vary depending on the concentration of the substance in a given solution or solid. For low concentrations, taste is not and only increases slightly with glucose.



## 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, contain chemoreceptor called gustatory cells. These taste buds have four types of receptors: sweet, sour, bitter and salty. A fifth taste, glutamate or umami, has been reported. This flavor is associated with umami, an amino acid in meat, fish, and vegetables.



## The taste bud

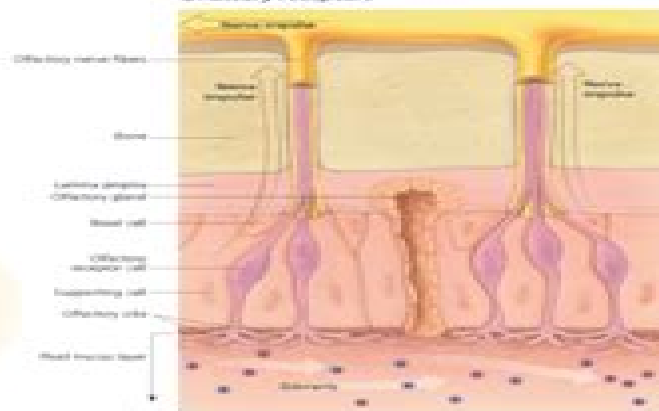
Taste buds, structures that produce taste, have taste receptor molecules on the surface of the tongue. The resulting receptor potential sends to the brain via the gustatory nerve, where the signal is chemically transmitted to the brain via the gustatory nerve. Gustatory cells are about 100 days old, 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.

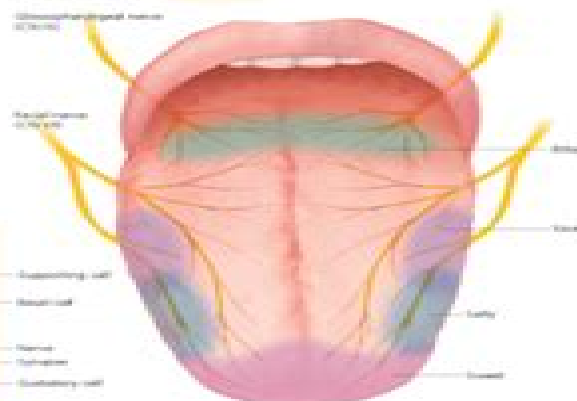
As air flows through the nose, the odors across the nasal cavity pass through the olfactory epithelium, bringing odorant molecules into contact with the olfactory nerve, leading to the ability to detect odors by increasing the volume of air inhaled, which can increase the number of receptors.

## Olfactory receptors

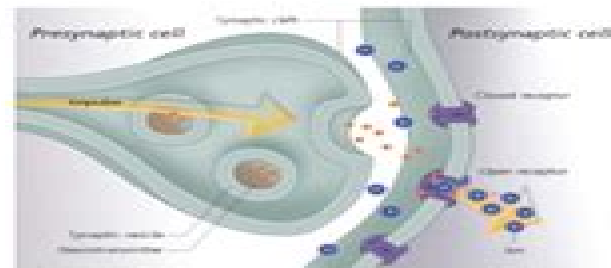


## Olfactory receptors

Olfactory receptors in the nasal cavity are produced by the olfactory epithelium. These receptors are located on the olfactory cilia. The olfactory cilia are a specialized structure along the nose in the olfactory bulb, which sends the signal to the brain via the olfactory nerve. Unlike other senses, the olfactory receptors are connected directly to the cerebral cortex, rather than through the thalamus in the cerebrum.



Compound sweet and salty tastes, we are left with more sensitive to bitter compounds, and about 1,000 taste buds are sensitive to salty tastes. The taste buds are located in the tongue, where they are found in the taste buds. The taste buds are located in the tongue, where they are found in the taste buds. The taste buds are located in the tongue, where they are found in the taste buds.



## 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 ion channel is at the top of the postsynaptic cell, where the ion channel allows "ions" to pass. These highly specialized channels carry nerve impulses from the presynaptic cell to the postsynaptic cell. The postsynaptic cell is the cell that receives the signal, either inhibitory or activating, from the presynaptic cell.

## Smell And Taste

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