

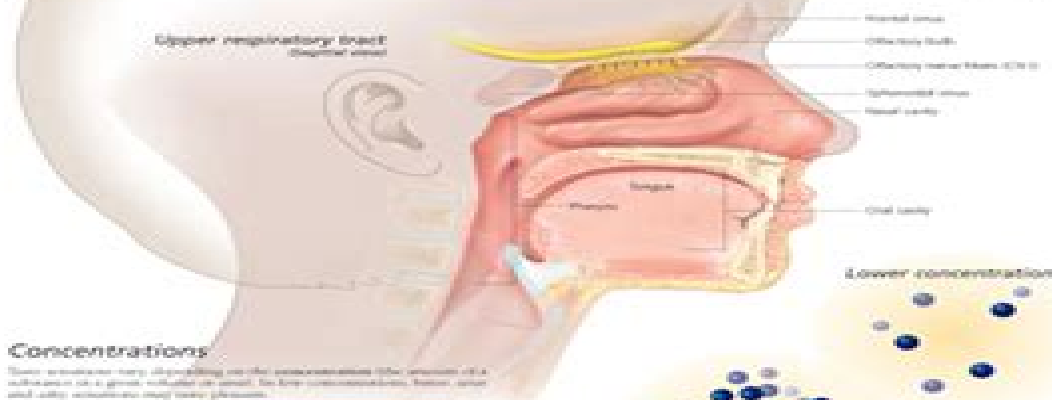


# PHYSIOLOGY SERIES

## 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 and smell, is largely determined by our environment. In fact, olfaction, thereby and smell, is largely determined by our environment. In fact, olfaction, thereby and smell, is largely determined by our environment. In fact, olfaction, thereby and smell, is largely determined by our environment.



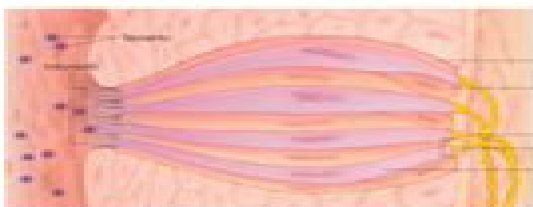
### Concentrations

Taste receptors vary depending on the concentration of the substance in a given solution or solid. For low concentrations, taste is sweet and salty; moderate concentrations are sour and bitter; and high concentrations are very sweet and very salty.



### 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 chemoreceptors called gustatory cells. These taste buds have four basic components: sweet, sour, bitter and salty. A fifth taste, umami, is the taste of glutamate, an amino acid. It is the taste of meat, cheese, and other foods.



### The taste bud

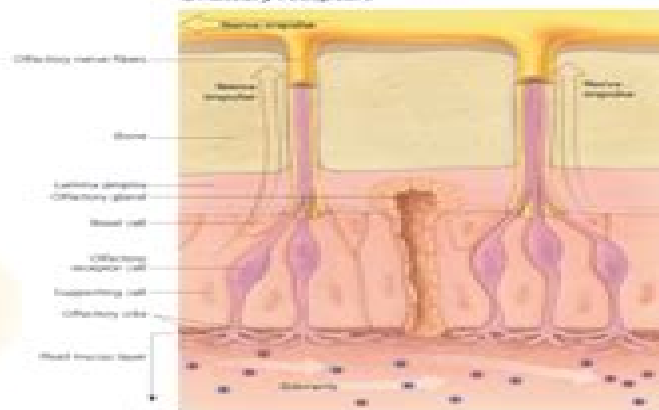
Each taste bud contains gustatory cells. These cells are the primary gustatory organ, the tongue, contain chemoreceptors called gustatory cells. These taste buds have four basic components: sweet, sour, bitter and salty. A fifth taste, umami, is the taste of glutamate, an amino acid. It is the taste of meat, cheese, and other foods.

### 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 interprets the input from these olfactory receptors to identify a particular odor. Humans can detect about 10,000 odors.

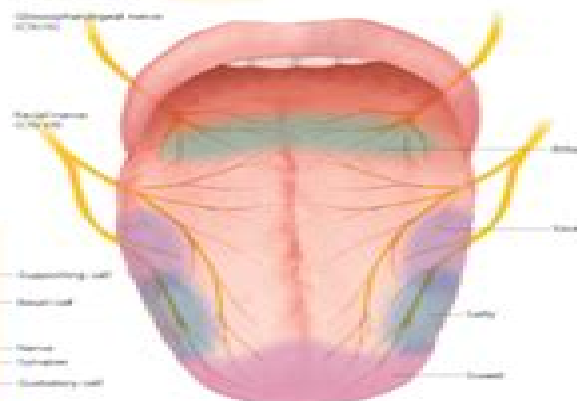
As air flows through the nose, the odors across the nasal cavity pass over the olfactory epithelium. Incoming odorous molecules can interact with the olfactory neurons, leading to the ability to detect odors by increasing the release of an impulse, which can activate the neurons of the brain.

### Olfactory receptors

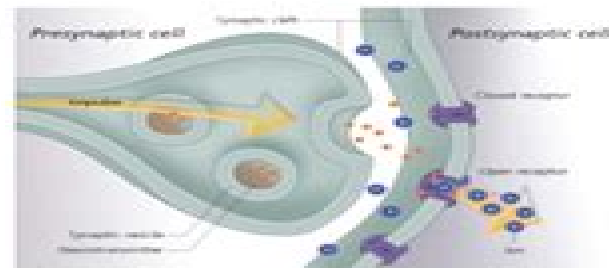


### Olfactory receptors

Olfactory receptors are located in the olfactory epithelium. These receptors are designed to respond to small amounts of an odorant, a molecule that can be smelled. The brain interprets the input from these olfactory receptors to identify a particular odor. Humans can detect about 10,000 odors.



Compound sweet and salty tastes, we are left with sour tastes, which are the most common. These tastes have a sour taste, which is the taste of lemons and other fruits. These tastes have a sour taste, which is the taste of lemons and other fruits.



### 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 top of the postsynaptic cell, the impulse travels down the postsynaptic cell, the impulse travels down the postsynaptic cell, the impulse travels down the postsynaptic cell.

# Smell And Taste

**S Ashworth**



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