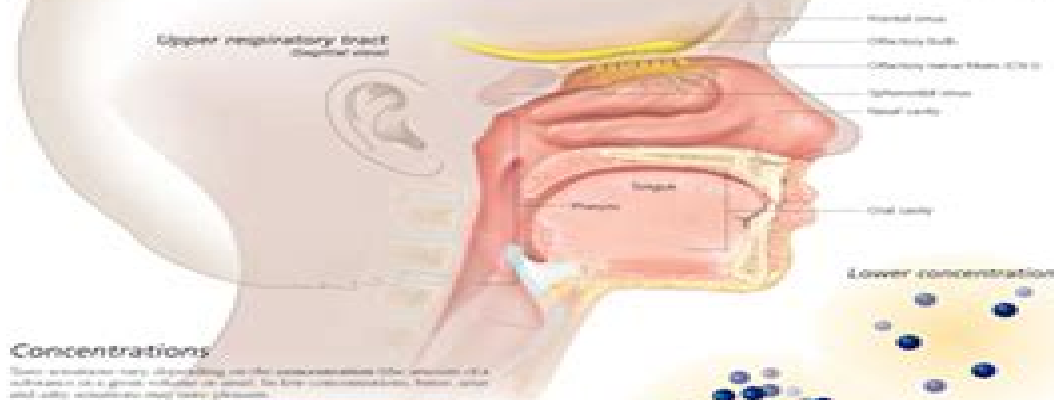




# Taste & Smell

## 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 monitor our environment, is related to the number of chemoreceptor cells that respond to molecules dissolved in fluid (taste) and in the 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 odors. 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.



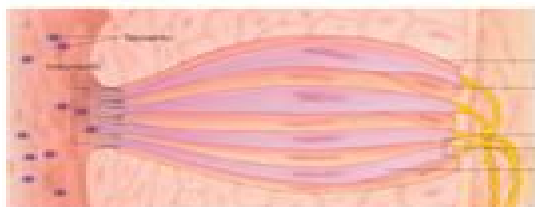
## Concentrations

Taste receptors vary depending on the concentration of substances in a given solution or solid. For low concentrations, bitter, sour and salty receptors may taste pleasant.



## 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 basic components: sweet, salty, bitter and sour. 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

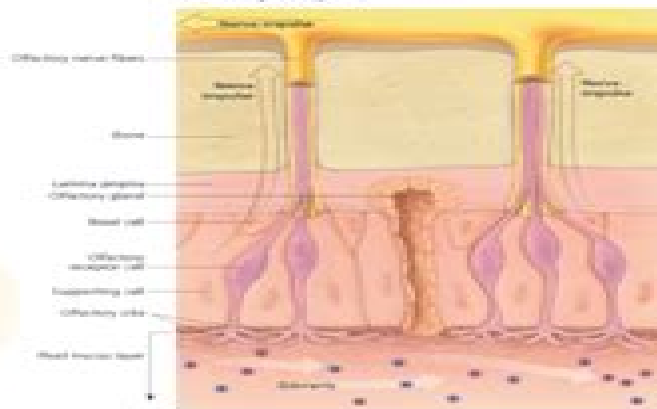
Umami, substances that produce taste, bind to receptor molecules on the surface of the gustatory cell. The resulting receptor potential travels to the basal end of the gustatory cell, where the gustatory cell is chemically stimulated to release the gustatory cell for molecular receptors. Gustatory cells live about 10 days, 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.

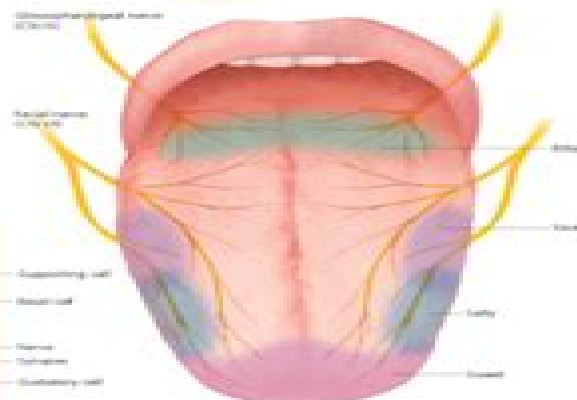
As air flows through the nose, the odors across the nasal cavity pass through the olfactory epithelium, bringing odorous molecules into contact with the olfactory nerve, leading to the ability to detect odors by increasing the release of an impulse, which can activate the neurons of the brain.

## Olfactory receptors

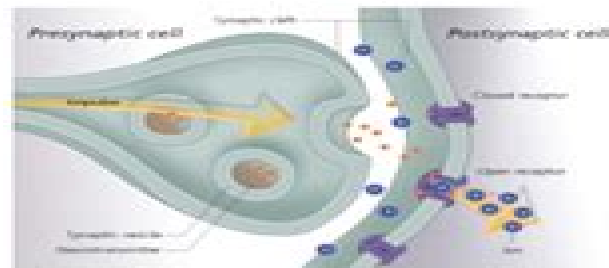


## Olfactory receptors

Olfactory receptors in the nasal cavity are produced by the olfactory epithelium. These receptors are located on the olfactory cilia. The olfactory cilia are located in the nasal cavity, where they are exposed to the air. The olfactory cilia are located in the nasal cavity, where they are exposed to the air. The olfactory cilia are located in the nasal cavity, where they are exposed to the air.



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



## 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 'messenger' molecules called neurotransmitters. These highly specialized chemicals carry nerve impulses from the presynaptic cell to the postsynaptic cell, where they are released into the synaptic cleft, where they are released into the synaptic cleft, where they are released into the synaptic cleft.

# Smell And Taste

**Antje Welge-Lüssen, Thomas Hummel**



**Smell And Taste:**

## Reviewing **Smell And Taste**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Smell And Taste**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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