

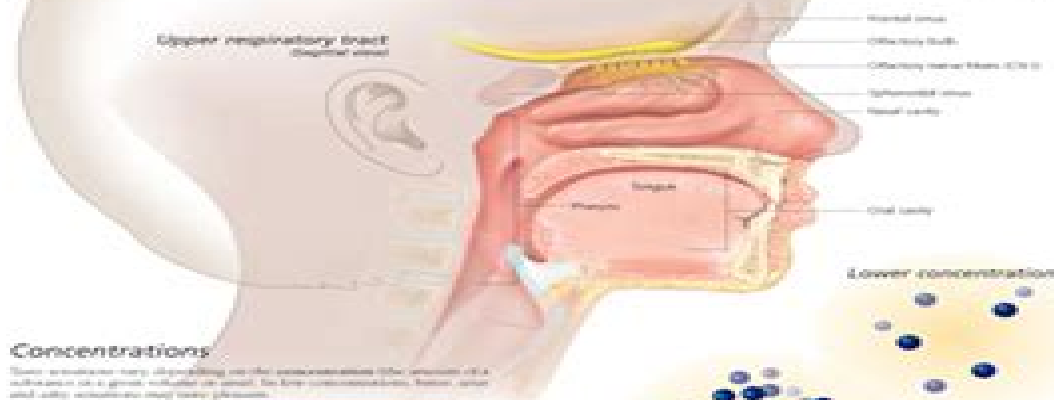


# PHYSIOLOGY SERIES

## 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 controlled by the number of receptors in the nose and mouth. 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.



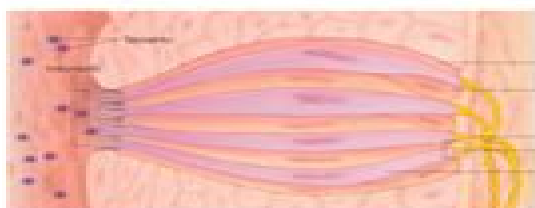
### Concentrations

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

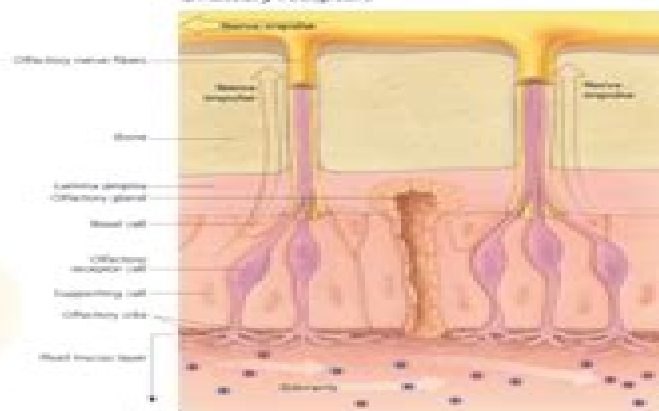
Umami, substances that produce taste, bind with receptor molecules on the surface of the gustatory cell. The resulting receptor potential travels to the basal end of the gustatory cell, where the gustatory cell is chemically stimulated to release the gustatory cell for molecular receptors. Gustatory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

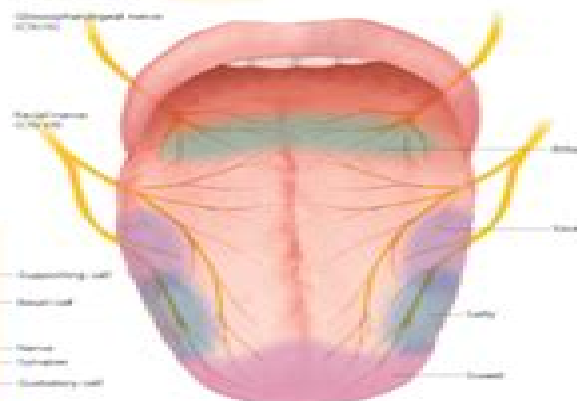
As air flows through the nose, the odors across the nasal cavity produce molecules. Incoming odorous molecules can interact with the olfactory nerve, leading to the ability to detect odors by increasing the release of an impulse, which can activate the neurons of the brain.

### Olfactory receptors

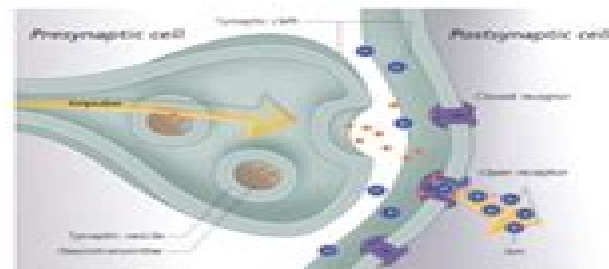


### Olfactory receptors

Olfactory receptors in the nasal cavity are produced by the olfactory gland, then travel to receptor molecules on the olfactory cilia. The receptor potential that is generated travels along the axon to the olfactory bulb, where it meets the input to the higher brain centers. 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 receptors to taste umami, and about 1,000 taste buds are sensitive to taste buds. The taste buds are located in the tongue, where they can taste the sweet and salty tastes. The taste buds are located in the tongue, where they can taste the sweet and salty tastes. The taste buds are located in the tongue, where they can taste the sweet and salty tastes.



### 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 and the adjacent neurons or cells, either inhibiting or activating neural impulses in the target cells.

# Smell And Taste

**Mary Murphy**



**Smell And Taste:**

## Smell And Taste Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Smell And Taste**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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