

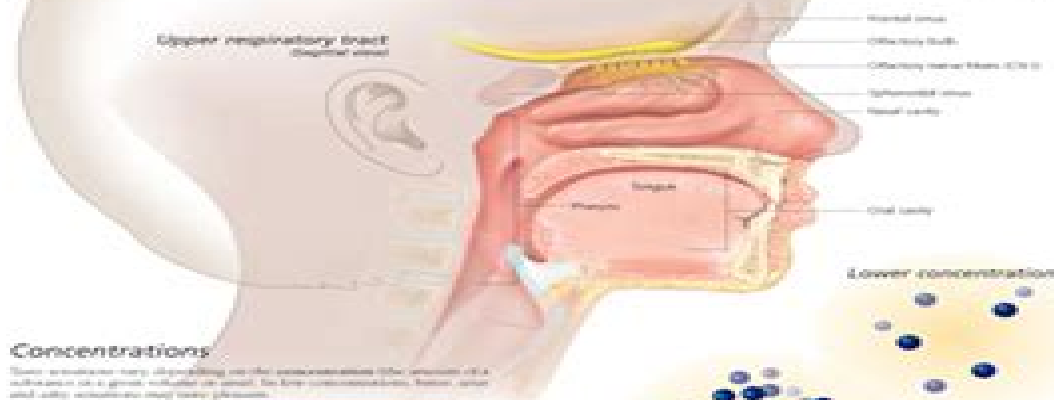


PHYSIOLOGY SERIES

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 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.



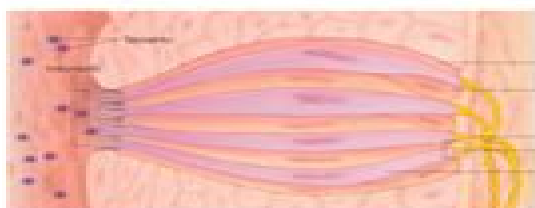
Concentrations

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



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 types of receptors: sweet, sour, salty and bitter. A fifth taste, umami, or savory, has been reported. This flavor is associated with proteins, or its agent, glutamate or inosinate.



The taste bud

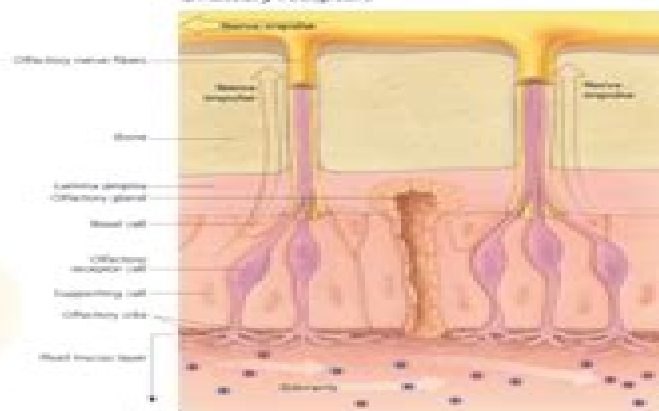
Taste buds, structures that produce taste, have taste receptors on the surface of the tongue. The resulting receptor potential travels to the basal end of the gustatory cell, where the receptor is chemically stimulated. The receptor cell has microvilli, known as taste hairs, that project into the taste fluid. These hairs 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.

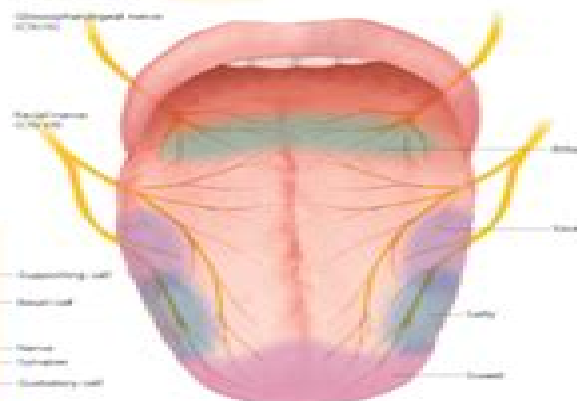
As air flows through the nose, the odors across the nasal cavity pass through the olfactory epithelium, bringing odorous molecules into contact with the olfactory nerve, leading to the ability to detect odors by increasing the volume of an inhaled, which can increase the number of receptors.

Olfactory receptors

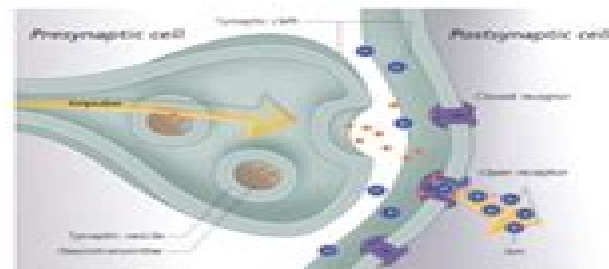


Olfactory receptors

Olfactory receptors in the nasal cavity are produced by the olfactory epithelium. These receptors are located on the olfactory bulb. The olfactory bulb is a specialized structure that is located in the nasal cavity. It is the olfactory bulb, which sends the signal to the brain. 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 compounds, and about 1,000 taste buds are located on the tongue. The taste buds are located on the tongue, and they are replaced by new cells generated from basal cells at the base of 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 impulse enters at the top of the postsynaptic cell, where the impulse enters the cell. The impulse enters the cell, where the impulse enters the cell. The impulse enters the cell, where the impulse enters the cell.

Smell And Taste

**Dr. Ronald DeVere, MD, Marjorie
Calvert**



Smell And Taste:

The Top Books of the Year Smell And Taste The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Smell And Taste : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Smell And Taste : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

https://archive.kdd.org/results/book-search/default.aspx/The_Bible_As_A_Record_Of_Psychic_Phenomena.pdf

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