

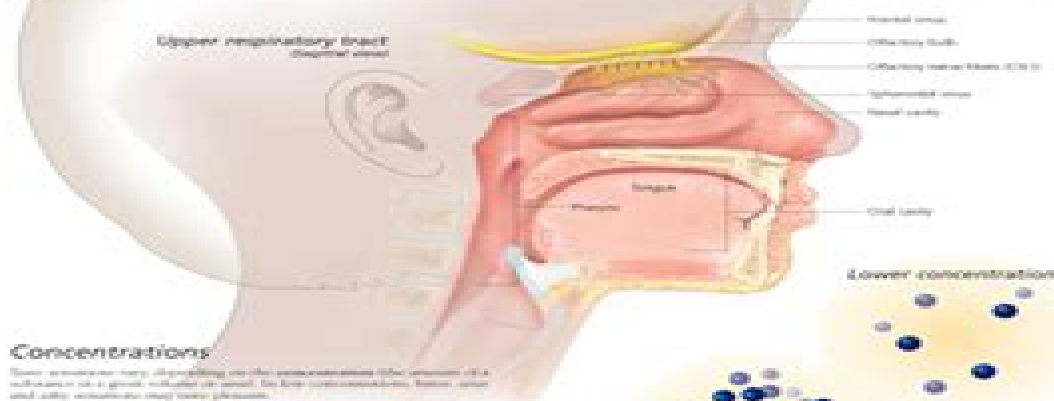


PHYSIOLOGY SERIES

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.



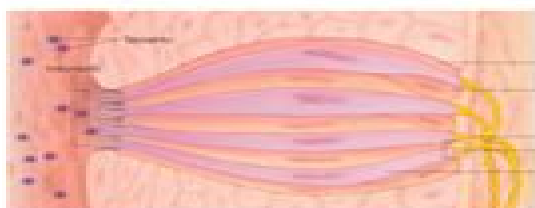
Concentrations

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, salty, and bitter. A fifth taste, umami, or savory, has been reported. This flavor is associated with umami, or the aged flavor of meat broth.



The taste bud

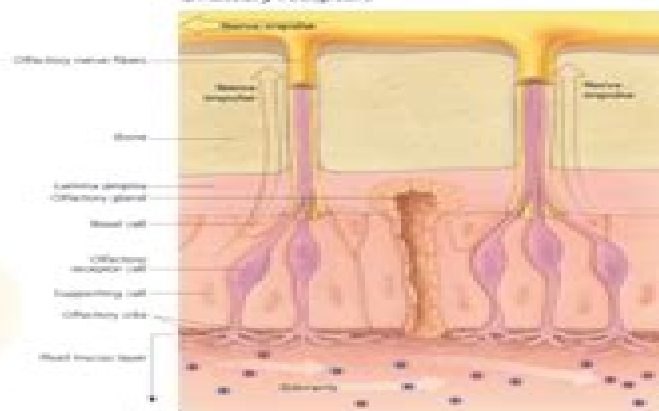
Each taste bud contains gustatory cells that respond to the taste of the food. The resulting receptor potential travels to the brain via the gustatory nerve. The gustatory nerve is composed of the axons of the gustatory cells. The gustatory nerve is composed of the axons of the gustatory cells. The gustatory nerve is composed of the axons of the gustatory cells.

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.

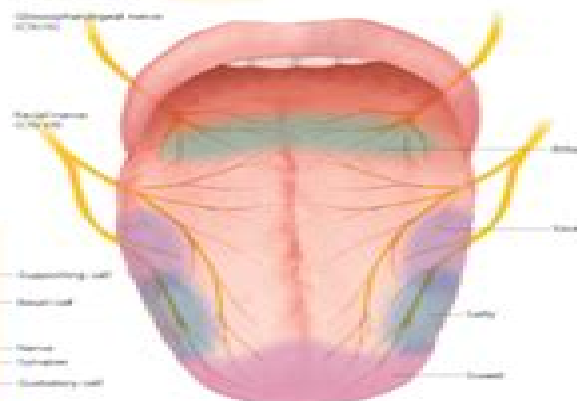
As air flows through the nose, the odors across the nasal cavity pass over the olfactory epithelium. Incoming odorant molecules can interact with the olfactory neurons, leading to the ability to detect odors by increasing the release of an impulse, which can activate the neurons of the brain.

Olfactory receptors

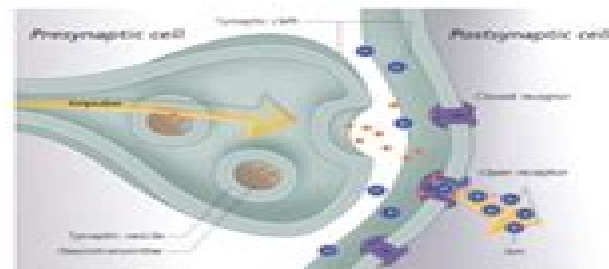


Olfactory receptors

Olfaction depends on the olfactory epithelium, which is located in the upper part of the nasal cavity. The olfactory epithelium is composed of olfactory neurons, supporting cells, and basal cells. The olfactory neurons are specialized to detect odors by increasing the release of an impulse, which can activate the neurons of the brain.



Compound sweet and salty tastes, we can tell more about the taste of a food by combining the signals from the sweet and salty receptors. The brain integrates the input from several different receptors to identify a particular odor. Humans can detect about 10,000 odors.



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 axon hillock, where "trigger" molecules called neurotransmitters. These highly specialized chemicals carry nerve impulses from the presynaptic cell to the postsynaptic cell. The postsynaptic cell can then activate the neurons of the brain.

Smell And Taste

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Smell And Taste:

The Top Books of the Year Smell And Taste The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. 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 captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing 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 captivating 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 speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

https://archive.kdd.org/files/uploaded-files/default.aspx/The_Hand_Cannons_Of_Imperial_Japan.pdf

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