

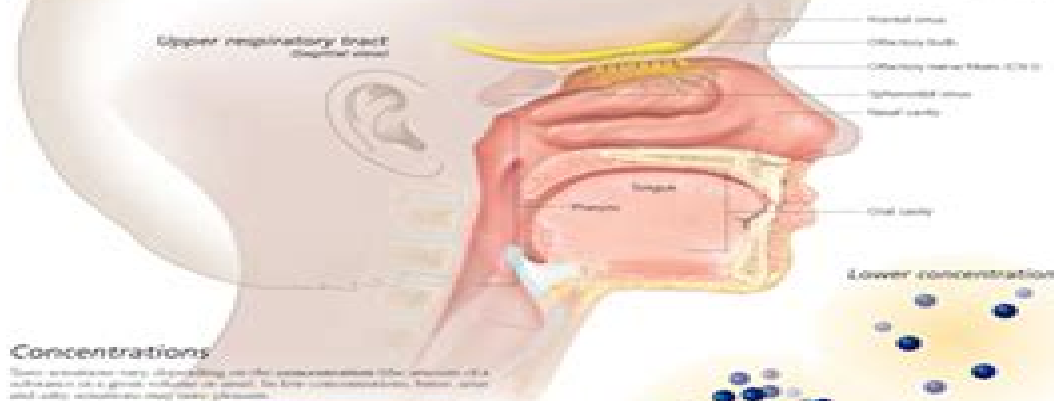


PHYSIOLOGY SERIES

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.



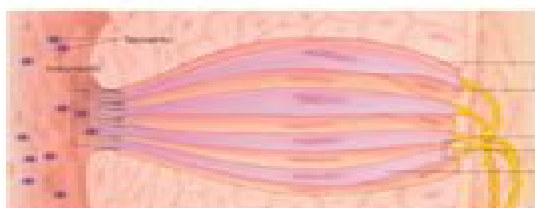
Concentrations

Taste receptors vary depending on the concentration of the substance in a given solution or food. 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, is also present. The tongue is covered with papillae, or small bumps, which contain taste buds.



The taste bud

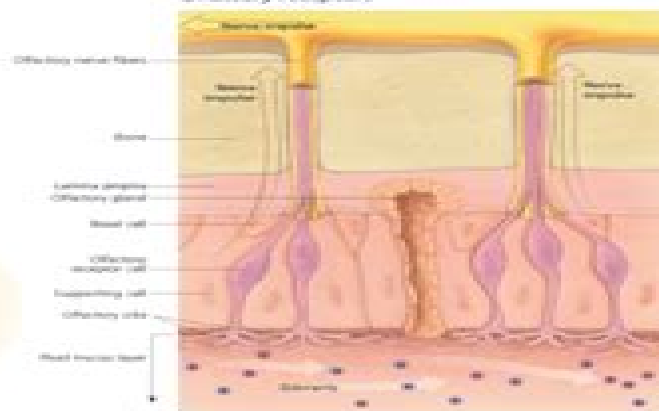
Each taste bud contains gustatory cells that project into the oral cavity. The gustatory cells are located in the taste bud, which is a small structure on the tongue. The gustatory cells are located in the taste bud, which is a small structure on the tongue. The gustatory cells are located in the taste bud, which is a small structure on the tongue.

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.

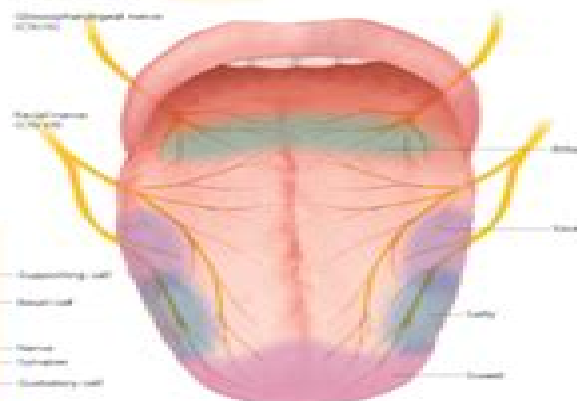
As air flows through the nose, the odors across the nasal cavity pass over the olfactory epithelium. Incoming odorant molecules can interact with the olfactory neurons, leading to the ability to detect odors by increasing the release of an impulse, which can activate the neurons.

Olfactory receptors

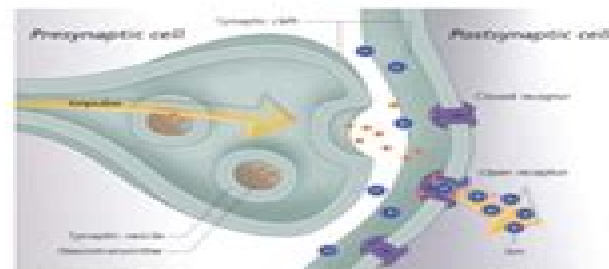


Olfactory receptors

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 can tell more about the nature of the substance than we can with a single taste. This is because the tongue has a central taste bud, which can detect sweet and salty tastes. The tongue has a central taste bud, which can detect sweet and salty tastes. The tongue has a central taste bud, which can detect 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 "messenger" molecules called neurotransmitters. These highly specialized chemicals carry nerve impulses across the synaptic cleft to meet the nerve and the adjacent neurons or cells, either inhibiting or activating them in the target cells.

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Table of Contents Smell And Taste

1. Understanding the eBook Smell And Taste
 - The Rise of Digital Reading Smell And Taste
 - Advantages of eBooks Over Traditional Books
2. Identifying Smell And Taste
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Smell And Taste
 - User-Friendly Interface
4. Exploring eBook Recommendations from Smell And Taste
 - Personalized Recommendations
 - Smell And Taste User Reviews and Ratings
 - Smell And Taste and Bestseller Lists
5. Accessing Smell And Taste Free and Paid eBooks
 - Smell And Taste Public Domain eBooks
 - Smell And Taste eBook Subscription Services
 - Smell And Taste Budget-Friendly Options
6. Navigating Smell And Taste eBook Formats
 - ePub, PDF, MOBI, and More
 - Smell And Taste Compatibility with Devices
 - Smell And Taste Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Smell And Taste
 - Highlighting and Note-Taking Smell And Taste
 - Interactive Elements Smell And Taste
8. Staying Engaged with Smell And Taste

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Smell And Taste
- 9. Balancing eBooks and Physical Books Smell And Taste
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Smell And Taste
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Smell And Taste
 - Setting Reading Goals Smell And Taste
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Smell And Taste
 - Fact-Checking eBook Content of Smell And Taste
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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