

Taste (gustatory)

Taste buds:

- sensory structures that detect taste
- located on papillae on tongue, hard palate, throat
- inside each taste bud are 40 taste cells
- Each taste cell has taste hairs that extend into taste pores

Papillae - Contains taste bud

Forms:

1. **filiform** - most numerous papillae on the surface of the tongue but have no taste buds.
 - Provide a rough surface on the tongue, allowing it to manipulate food more easily.
2. **vallate** - largest but least numerous of the papillae.
3. **foliate** - distributed in folds on the sides of the tongue and contain the most sensitive of the taste buds.
4. **fungiform** - scattered irregularly over the entire superior surface of the tongue

Histology

3 major types of specialized epithelial cells:

1. **sensory cells** - each taste bud w/ 50 taste cells, or gustatory cells.
2. **basal cells** - precursor cells that differentiate into mature taste cells
3. **Supporting cells** - play a role in the clearance of excess neurotransmitters after their release from taste receptor cells.

- Like olfactory cells, taste cells are exposed and are replaced continuously

- normal lifespan of a taste cell - **10 days**.

Taste Process:

1. Taste buds pick up taste and send it to taste cells.
2. Taste cells send taste to taste hairs.
3. Taste hairs contain receptors that initiate an action potential which is carried to the parietal lobe.
4. Brain processes taste.

Neuronal Pathways for Taste

- **Facial nerve (VII)**: the chorda tympani transmits taste sensations from the anterior two-thirds of the tongue, except from the vallate papillae.
- **Glossopharyngeal nerve (IX)**: carries taste sensations from the posterior one-third of the tongue, the vallate papillae, and the superior pharynx.

Vagus nerve (X): carries a few fibers for taste sensation from the epiglottis.

Types of Tastes

- Sweet
- Sour
- Salty
- Bitter
- Umami

Taste - linked to smell.

Vision - Includes the eyes, the accessory structures, and the optic nerves (II), tracts, and pathways

The Eye and Accessory Structures

- **Eyebrow** - protects from sweat, shade from the sun
- **Eyelid** - lubricates by blinking

- **Palpebral fissure** - space between 2 eyelids

- **Canthi** - angles where eyelids join at the medial & lateral margins of the eye

- **Caruncle** - small, reddish-pink mound in medial canthus housing some modified sebaceous & sweat glands

Eyelid Layers:

- **Skin**
- **Areolar connective tissue**
- **Skeletal muscle**: orbicularis oculi & levator palpebrae superioris muscles
- **Dense connective tissue**: tarsal plate (helps maintain shape of eyelid)
- **Palpebral conjunctiva**
- **Eyelashes** - attached as a double or triple row of hairs to the free edges of the eyelids
- **Ciliary glands** - modified sweat glands that open into the follicles of the eyelashes to keep them lubricated
- **Stye** - forms when one of these glands becomes inflamed
- **Meibomian glands, or tarsal glands** - are sebaceous glands near the inner margins of the eyelids
- **Chalazion** - meibomian cyst, is an infection or a blockage of a meibomian gland.
- **Conjunctiva** - a thin, transparent mucous membrane associated with the eyelids and the exposed areas of the eye
- **palpebral conjunctiva** - covers the inner surface of the eyelids
- **bulbar conjunctiva** - covers the anterior white surface of the eye

Taste And Sight Anatomy Study Guide

Daniela Niemeyer



Taste And Sight Anatomy Study Guide:

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