Taste Receptors

Each taste bud contains about 40-100 receptor cells and many small stem cells, called basal cells. The basal cells continually divide to produce daughter cells that mature in stages.

Gustatory receptor cells) what the cells \(\bar{} \) at the last stage are called. Replaced every 10 days.

Taste pore) a narrow opening. Gustatory receptor cells that extend microvilli, sometimes called taste hairs.

Gustatory Pathways

Taste buds are innervated by cranial nerves VII (facial), IX (glossopharyngeal), ald X (vagus).

The combination of taste and smell is what provides the *flavor*, or overall distinctive quality of a particular food or drink. Consider the flavor of taste and smell is what provides the *flavor*, or overall distinctive quality of a particular food or drink. Consider the flavor of taste and smell is what provides the *flavor*, or overall distinctive quality of a particular food or drink. Consider the flavor of taste and smell is what provides the *flavor*, or overall distinctive quality of a particular food or drink.

- Sweet
- Salty
- Sour
- Bitter

Two Additional Taste Sensations:

- **Umami:** (Japanese for deliciousness) is a pleasant savory taste corresponding to the flavor of beef broth, chicken broth, and Parmesan cheese.
- **Water receptors:** in the pharynx. Sensory output of these receptors is processed in the hypothalamus.