

## MODULE 8 L03

# Digestive Functions of Oral Cavity

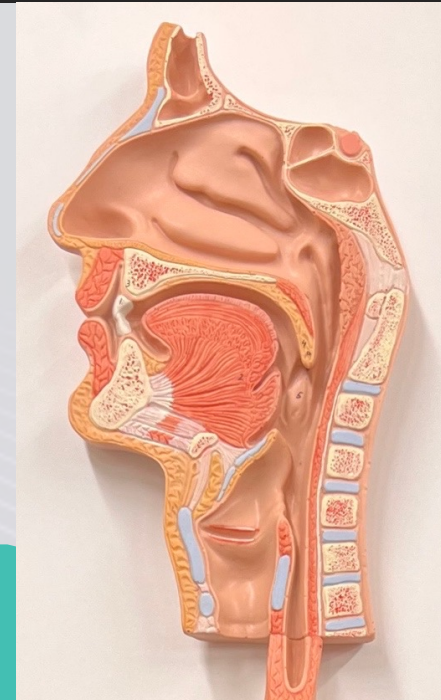
Dr. Lisa Brinn

[lbrinn@fiu.edu](mailto:lbrinn@fiu.edu)



# 3) Oral Cavity

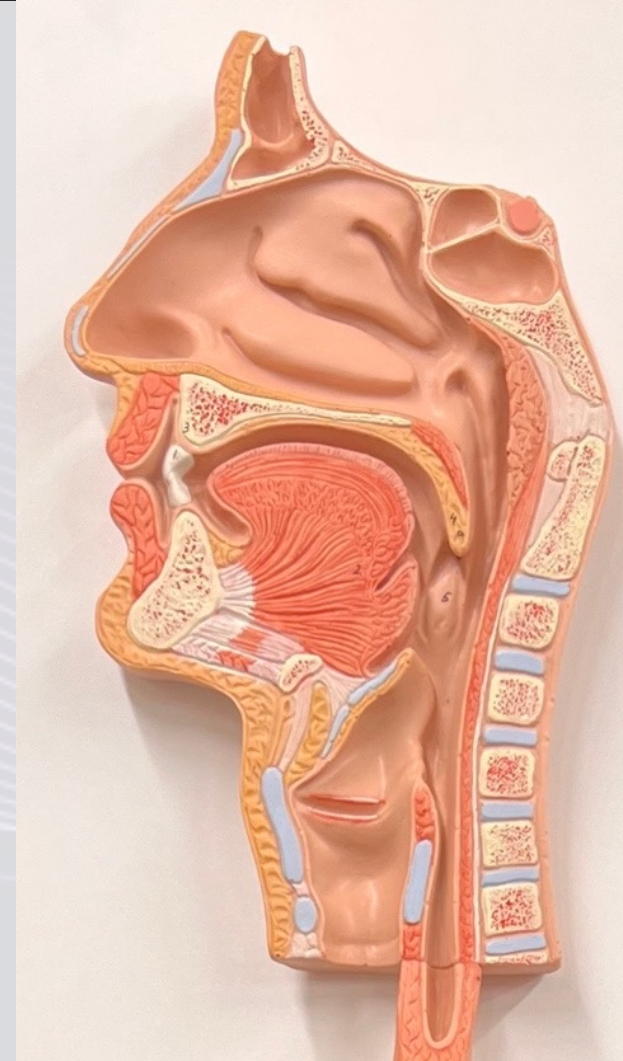
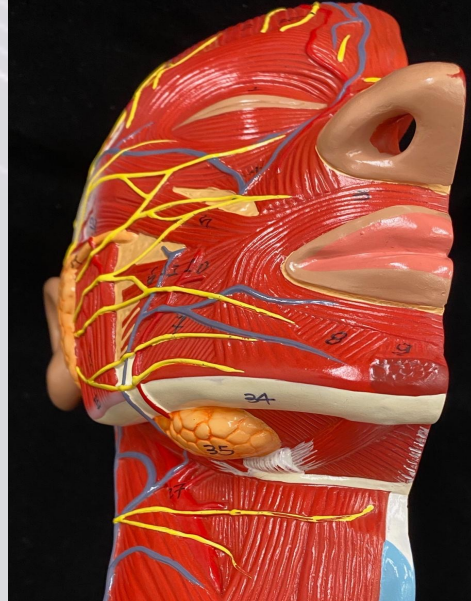
- Major functions:
  - ❖ Food ingestion
  - ❖ Chewing and mixing of food
  - ❖ Begins chemical breakdown of carbohydrates
  - ❖ Moves food into the pharynx
  - ❖ Begins breakdown of lipids via lingual lipase
- Other functions:
  - ❖ Moistens and dissolves food
  - ❖ Cleans and lubricates teeth and oral cavity
  - ❖ Antimicrobial activity





# Oral Cavity Accessory Organs

- Lips and cheeks
- Teeth
- Tongue's extrinsic muscles
- Tongue's intrinsic muscles
- Taste buds
- Lingual glands
- Salivary glands



# Oral Cavity Digestive Properties

- Lingual lipase
  - ❖ Secreted by lingual glands
  - ❖ Activated first in the stomach
  - ❖ Breaks down triglycerides

- Saliva

- ❖ Water – 99.4%
- ❖ Ions
- ❖ Glycoproteins
- ❖ Enzymes
- ❖ Growth factors
- ❖ Waste products

0.6%



- Salivary amylase
- Bicarbonate ions
- Phosphate ions
- Mucus
- IgA