

Digestion

DIGESTIONS -----> process of breaking down complex organic molecules to be absorbed and utilized in body

(1) Physical/Mechanical Digestion

(2) Chemical Digestion - w/ enzymes

components - ingestion, digestion, absorption (into tissue), egestion

Peristalsis - muscle contractions (mechanical digest)

Gland - (endocrine: secrete into blood, eg. hormone - pituitary) + (exocrine- secrete into own ducts, eg. salivary)

OVERVIEW

(A) food -> ATP for tissue and body func

(B) food(polymer) ---hydrolysis + enzymes---> monomers

(C) Protection - mucosa lining + enzyme activation in digestive tract

(D) Gastrointestinal tract (food tube) - Oral cavity, Pharynx, Esophagus, Stomach, SI, LI

(E) Accessory Organs - teeth+tongue, salivary glands, liver, pancreas, gall bladder

Oral digestion

TONGUE - move food around, assists in swallowing, taste buds

SOFT PALATE + UVULA -

TEETH - mechanical

SALIVARY BACTERIA - has enzymes(chem digest), pH 6-7, 1st chem digest of polysaccharides

PHARYNX - trachea(wind pipe) + epiglottis, esophagus - mucous lines, uses peristalsis to move food to stomach



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