

Simulation Summary: Joe Eats a Hamburger

Name _____

Organ	Enzyme/Hormone	Stimulus	From	To	Action
mouth	salivary amylase	start sight/smell stop no food in mouth	salivary glands	mouth	break down starch partially
	gastrin	start stop no food in stomach		blood and back to stomach lining	
	pepsin	start stop enterogasterone			
	hydrochloric acid	start stop enterogasterone			activate pepsin pepsinogen → pepsin stop pepsin/HCl production
	secretin	start stop	intestine → intestine →	stomach pancreas	
	bicarbonate	start stop	pancreas		
	cholecystokinin	start food in intestine stop		pancreas gall bladder	secrete enzymes release bile
	bile	start CCK stop		small intestine	
	pancreatic amylase	start CCK stop		intestine	
	pancreatic trypsin		~ ~ ~ ~ ~		
	pancreatic chymotrypsin		~ ~ ~ ~ ~		
	pancreatic lipase		~ ~ ~ ~ ~		
	enterogastrone	start stop	intestine		
	dipeptidase	start food in intestine stop no food " "	intestinal lining	intestine	
	maltase		~ ~ ~ ~ ~		maltose → glucose glucose
	sucrase		~ ~ ~ ~ ~		
	lactase		~ ~ ~ ~ ~		