

BMB 401 Self Assessment Lecture 31a: Proteases that Hydrolyze Dietary Proteins

- 1) Protein digestion begins in the Stomach
- 2) The zymogen released in this organ becomes activated to produce a protease that specifically acts in this environment.
 - a) This zymogen is Pepsinogen
 - b) The activated protease is Pepsin
 - c) This zymogen is activated by Low pH
- 2) Where is the protease enteropeptidase found?
on the luminal surface of enterocytes (Note: enterocytes are epithelial cells that line the luminal surface of the small intestine).
- 3) Enteropeptidase activates a specific zymogen that initiates a protease cascade.
 - a) What is this zymogen? Trypsinogen
 - b) Where is this zymogen produced?
Pancreas
 - c) What is the name of the activated protease formed from this zymogen?
Trypsin
- 4) Please name two zymogens activated by the protease in 3c and their activated counterparts.
 - a) Zymogen Chymotrypsinogen
 - b) Protease Chymotrypsin
 - c) Zymogen Proelastase
 - d) Protease Elastase
 - e) Zymogen Procarboxypeptidase
 - f) Protease Carboxypeptidase