

Vesicular Pathways

C15c

I. Exocytosis

- A. Defined
- B. ER modifications
 - 1. disulfide bond formation
 - 2. glycosylation
 - a. glycocalyx
 - 3. quality control
 - 4. ex. cystic fibrosis
 - 5. UPR
- C. Golgi apparatus
 - 1. location
 - 2. structure - cisternae
 - 3. faces
 - a. *cis*
 - b. *trans*
- D. Lipids
- E. Secretion
 - 1. constitutive exocytosis pathway
 - 2. regulated exocytosis pathway
 - a. secretory vesicles

II. Endocytic Pathways

- A. Endocytosis
 - 1. process
 - a. endocytic vesicle
 - 2. pinocytosis
 - 3. phagocytosis
 - a. phagosome
- B. Process
 - 1. phagocytosis
 - a. pseudopods
 - b. phagosome
 - 2. pinocytosis
- C. Receptor-mediated endocytosis
 - 1. ex. cholesterol import
- D. Endosomes
 - 1. compartment
 - 2. early
 - 3. late
 - 4. function
 - a. transcytosis
- E. Lysosomes
 - 1. membrane proteins
 - 2. marker
 - a. mannose 6-phosphate
 - 3. autophagy