

## Chapter 15b - Vesicular Transport

### I. Background

1. transport vesicles

### II. Vesicle Budding = Vesicle formation

#### A. Protein capturing

1. transport signals
2. cargo receptors
3. adaptins

#### B. Coat proteins

- a. COPII
- b. COPI
- c. Clathrin

#### C. Polymerization

- a. Sec12
- b. GBP

1. driving force

#### D. Pinching off

1. dynamin

#### E. Disassembly

### III. Vesicle Movement

#### A. Motor proteins

1. kinesins
2. dyneins

#### B. Structure

#### C. Movement

### IV. Vesicle Docking

#### A. Tethering

1. Rab proteins

#### B. Docking

1. v-SNARE
2. t-SNARE
3. Dissociation