

# Quiz 2 Material

Endomembrane System; ER (Protein Import); ER (Protein Folding); Intracellular Vesicle Transport; Golgi; Endocytosis & Lysosomes; Exocytosis

## *ER: Protein Folding*

# Heat Shock Proteins (Hsp70)

- give proteins more time to reach their native conformation
- **Hsp70**
  - acts early in life of proteins by binding to a short stretch of hydrophobic AAs before polypeptide leaves ribosome
  - binds hydrophobic region of protein when protein starts to fold improperly
  - MAIN GOAL: to prevent protein aggregation, giving them more time to find correct conformation
  - ATP hydrolysis provides energy used for protein folding

