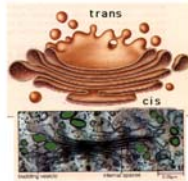


GOLGI APPARATUS

- Flattened stacks of membranes (**cisternae**)
- Collecting, packaging and distribution of proteins made in cell via **secretory vesicles**
- Front side of Golgi = “Cis” Face
 - Faces ER
- Back side of Golgi = “Trans” Face
 - Faces cell membrane

BioMed



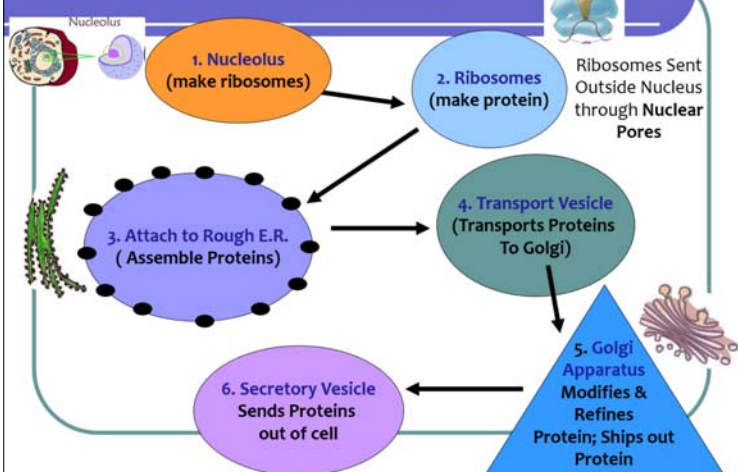
GOLGI JOBS

1. **Separates** proteins according to their destinations
2. **Modifies** proteins (added with sugar and make glycoproteins; added with lipids make lipoproteins)
3. **Packages** materials **into vesicles** which are exported (secreted) outside cell

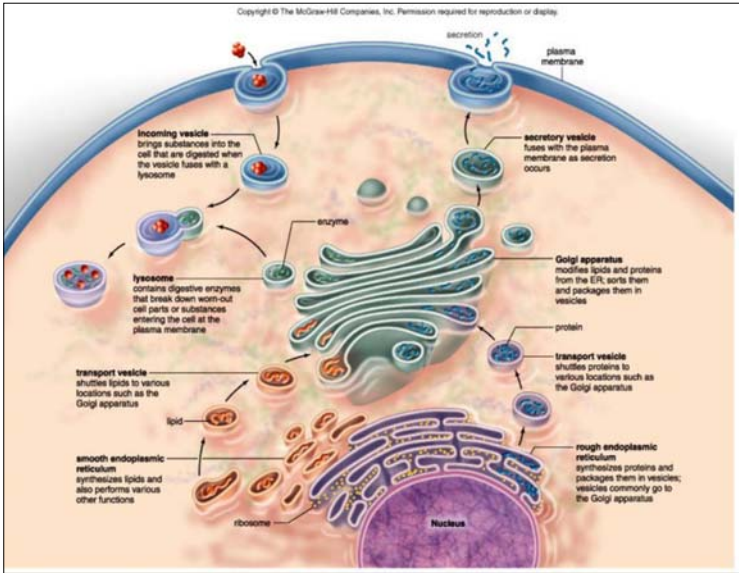
BioMed



How Proteins are Made

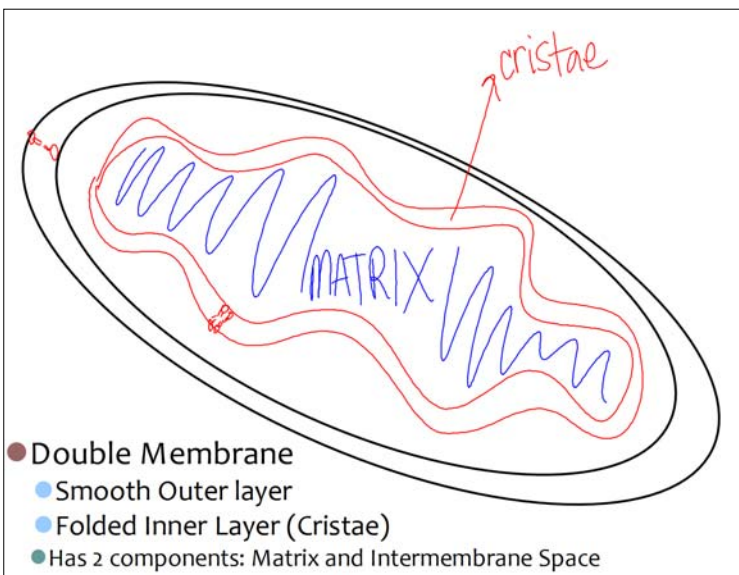
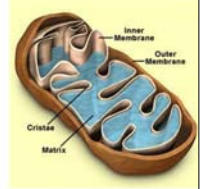


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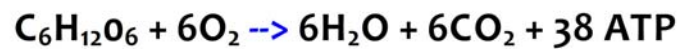
MITOCHONDRIA

- “Powerhouse” of Cell
 - Produces Energy in the form of ATP
 - Cellular Respiration
- Contains it’s own DNA



CELLULAR RESPIRATION:

(Reactants) --> (Products)



ATP

Adenosine Tri-Phosphate



- **HIGH ENERGY!**

- ATP powers most of cell's chemical rxn's
 - Highly active cells (Ex: Muscle cells) can have 100's
 - Fat storage cells have few mitochondria; not very active

