

Function of Golgi body The function of the Golgi apparatus is processing and packaging proteins that have exited the rough endoplasmic reticulum to be transported inside or outside the cell. The Golgi body contains Golgi stacks, These Golgi stacks contain anywhere from 3 to 20 flattened membrane sacs, which are called cisternae, that contain different processing enzymes that work in modifying protein. Transport vesicles pick up the molecules from the rough endoplasmic reticulum and transport them to the cis face of the Golgi stacks, where they fuse with the Golgi membrane and are sorted. They are then moved through the Golgi cisternae and undergo remodeling and other modifications. The modified protein or lipid molecules then depart from the trans face of the Golgi stacks.

Function

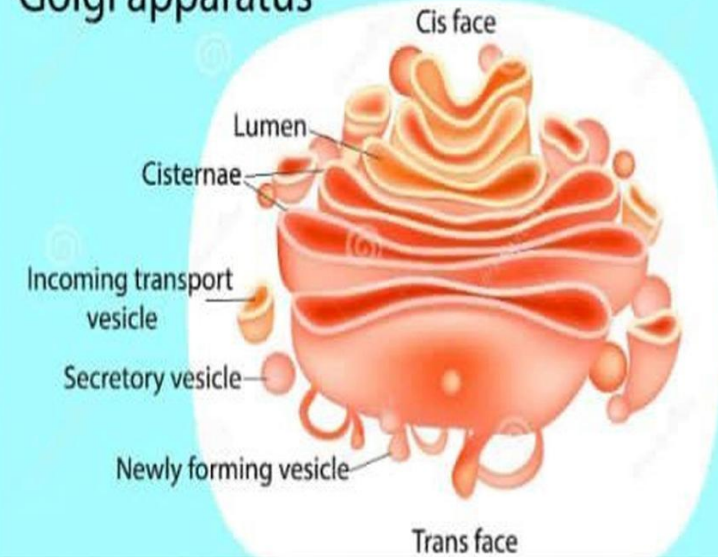
Where is the Golgi apparatus located?

Golgi apparatus is a series of stacked membranes that are located within the cytoplasm like fluid held in the cell membrane) in all eukaryotic cells (complex cells).

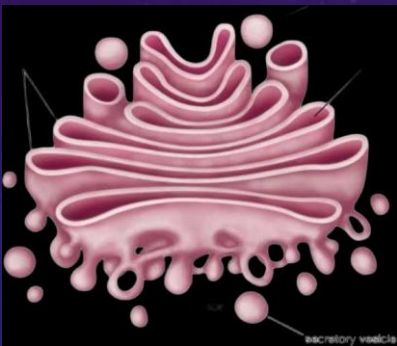
Structure

A: Flattened vesicle These are series (3-12 number) of parallel, elongated, smooth membranous sacs forming stacks. They have a convex surface (immature or cis face) and a concave face (mature or trans face). These sacs are continuous in their central regions while peripherally they often show dilatations and pores and may be connected with the ER. **B: Microvesicles** These are smooth surfaced small spherical vesicles arising by budding from RER and seen around the periphery of the stack. They migrate through the cytoplasm to fuse with the immature face where they discharge their contents thus causing expansion of the saccules. **C: Macrovesicles** These are smooth surfaced, large spherical vesicles, present at the mature face and contain formed substances. They either migrate to fuse with the cell membrane and discharge their contents through it to outside forming secretory granules or remain in the cytoplasm as lysosomes.

Golgi apparatus



Shahd Taher Naffe	22110464
Habiba Yasser Zaki	22110477
Omar Hesham Abd Alhamed	22110528
Esraa Sobhy Hamza	22110300
Amira Mahmoud Hasaneen	22110674
Mwda Ibrahim Ali Mahmoud	22110668
Rahma Abdelrahman Salah	22110597
Abdulrahman Mohamed Mostafa	22110527
Ammar Abdu	22110520
Mohamed Ibrahim Saber	22110525



Dr. Sherein Abdelgayed