Endoplasmic Reticulum (ER):

- 1. Rough ER (RER): Studded with ribosomes; involved in protein synthesis.
- Smooth ER (SER): Lacks
 ribosomes; involved in lipid
 synthesis and detoxification.

Golgi Complex: Involved in protein sorting, glycosydation, and sulfupation.

Lysosomes: Contain hydrolytic enzymes for digestion; known as the cell's "suicidal bags."

Peroxisomes: Contain enzymes for oxidation reactions and lipid metabolism.