

Topic: Cell Organelles
B.Sc. Botany Hons. III
Paper: V Group: A

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Endosomes

- ❖ Endosomes are membrane-bound compartments within a cell originating from the Golgi network

Structure

- There are different types of endosomes based on morphology and the time it takes for the endocytosed materials to reach them.
- The early endosomes are made with the tubular-vesicular network while the late endosomes lack tubules but contain many close-packed intraluminal vesicles.
- The recycling endosomes are found with microtubules and are mainly composed of tubular structures.

Endosomes



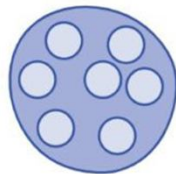
Early 1



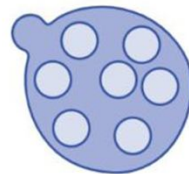
Early 2



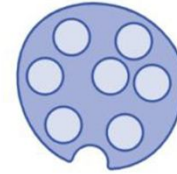
Early 3



Late 1



Late 2



Late 3

Functions

- Endosomes allow the sorting and delivery of internalized materials from the cell surface and transport of materials to the Golgi or the lysosomes.