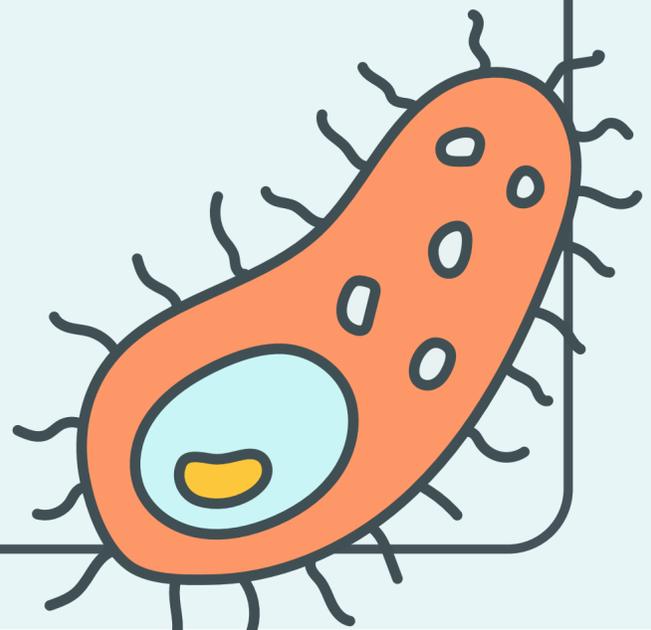
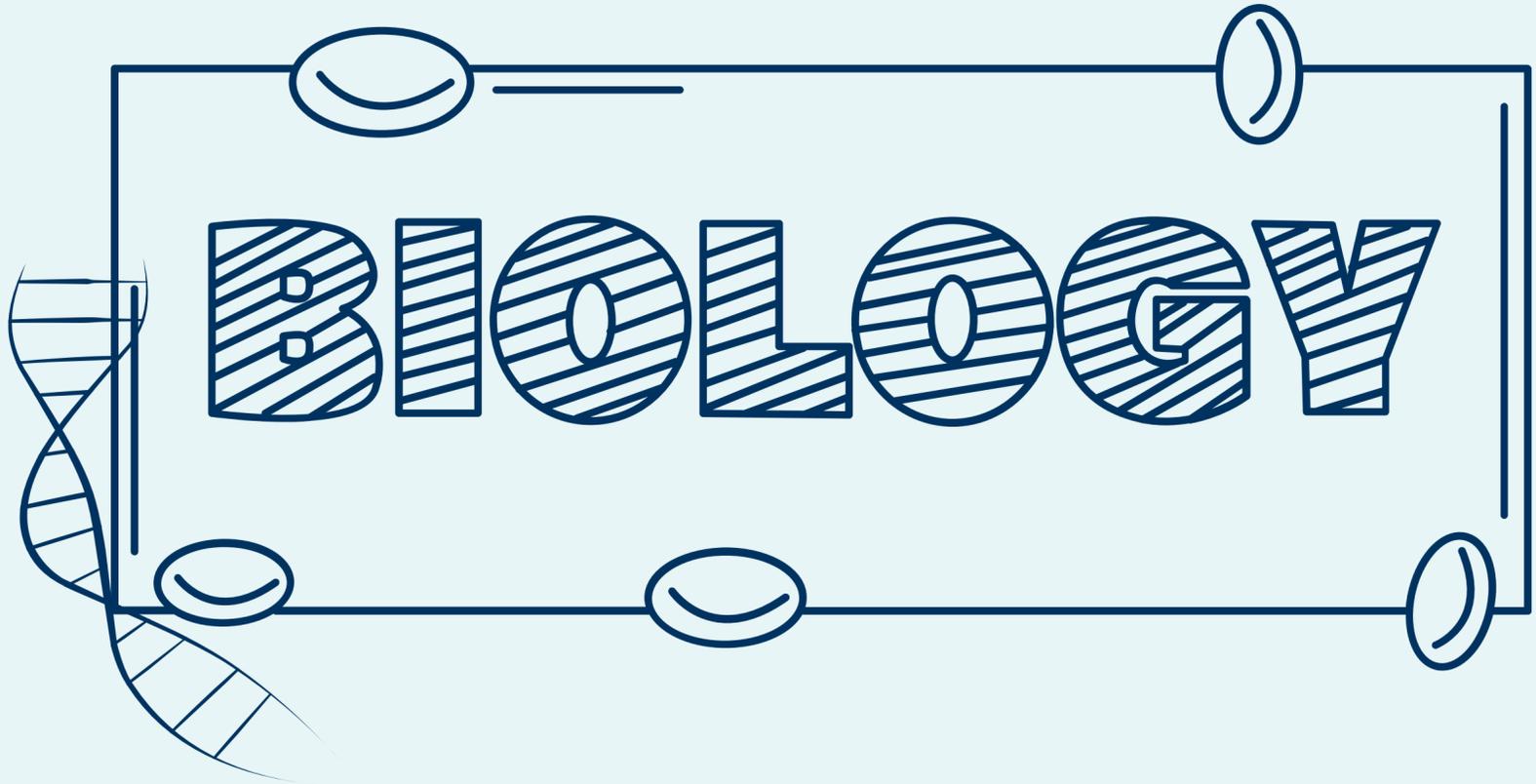


# Quiz time

## Lec 8



1. Lysosomes are also known as:

- A) The powerhouse of the cell
- B) The digestive system of the cell
- C) The storage center of RNA
- D) The protein synthesis site

Answer:B

2. Lysosomal enzymes are synthesized in the:

- A) Smooth endoplasmic reticulum
- B) Rough endoplasmic reticulum rER
- C) Golgi apparatus
- D) Ribosomes only

Answer:B

3. Lysosomal enzymes are sorted and packaged in the:

- A) Nucleus
- B) Plasma membrane
- C) Golgi complex
- D) Endosome

Answer:C

4. The contents of secondary lysosomes appear:

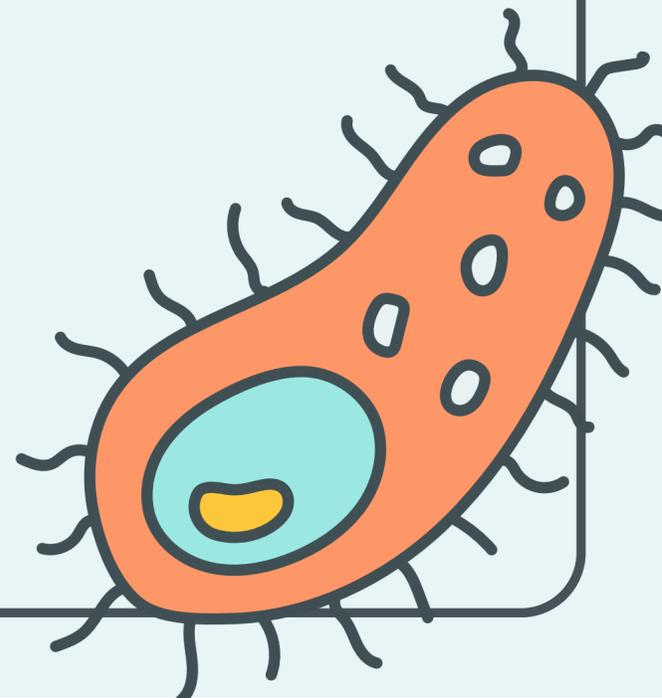
- A) Homogeneous
- B) Heterogeneous
- C) Empty
- D) Uniform

Answer:B

5- Peroxisomal enzymes are synthesized on:

- A) Rough ER
- B) Free polyribosomes
- C) Golgi apparatus
- D) Nuclear matrix

Answer:B



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6. The main function of peroxisomes is:

- A) Digestion of phagocytosed particles
- B) Oxidation of long-chain fatty acids and detoxification
- C) Synthesis of steroids
- D) Protein secretion

Answer: B

7. Which of the following statements is *\*true\** regarding endosomes?

- A) They lack membranes
- B) They store materials before reaching lysosomes
- C) They contain mitochondrial DNA
- D) They are identical to proteasomes

Answer: B

8. Early endosomes are located:

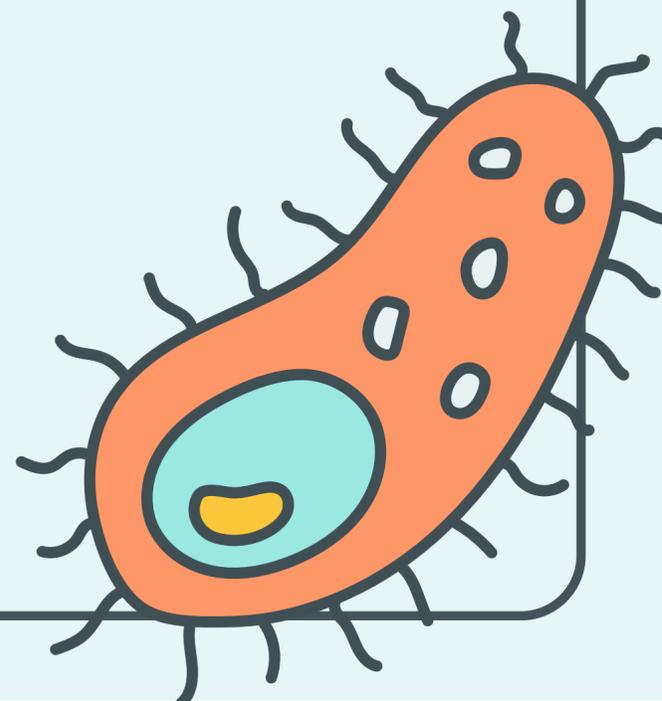
- A) Close to the nucleus
- B) Near the cell membrane
- C) Inside the mitochondria
- D) Near lysosomes

Answer: B

9. Proteasomes differ from lysosomes in that they are:

- A) Membrane-bound
- B) Non-membranous
- C) Vesicular organelles
- D) Larger than nuclei

Answer: B



10. The main function of proteasomes is to:

- a) Synthesize new polypeptides
- b) Store amino acids for protein synthesis
- c) Degrade non-functional polypeptides and unneeded proteins
- d) Transport proteins across the plasma membrane

answer: c)

11. Structurally, proteasomes are:

- A) Barrel-shaped protein complexes
- B) Vesicular sacs with a membrane
- C) Thread-like filaments
- D) Crystalline lattice structures

Answer: A

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أصلح لي شأني كله  
ولا تكلني إلى نفسي طرفة عين

