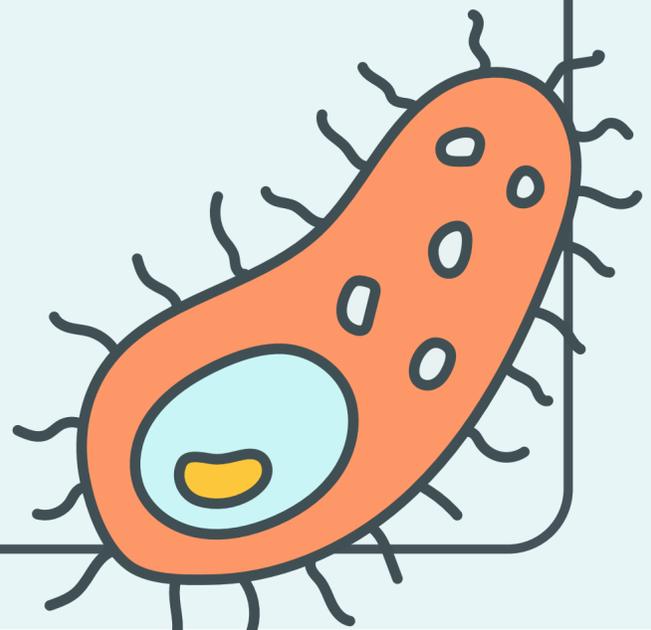
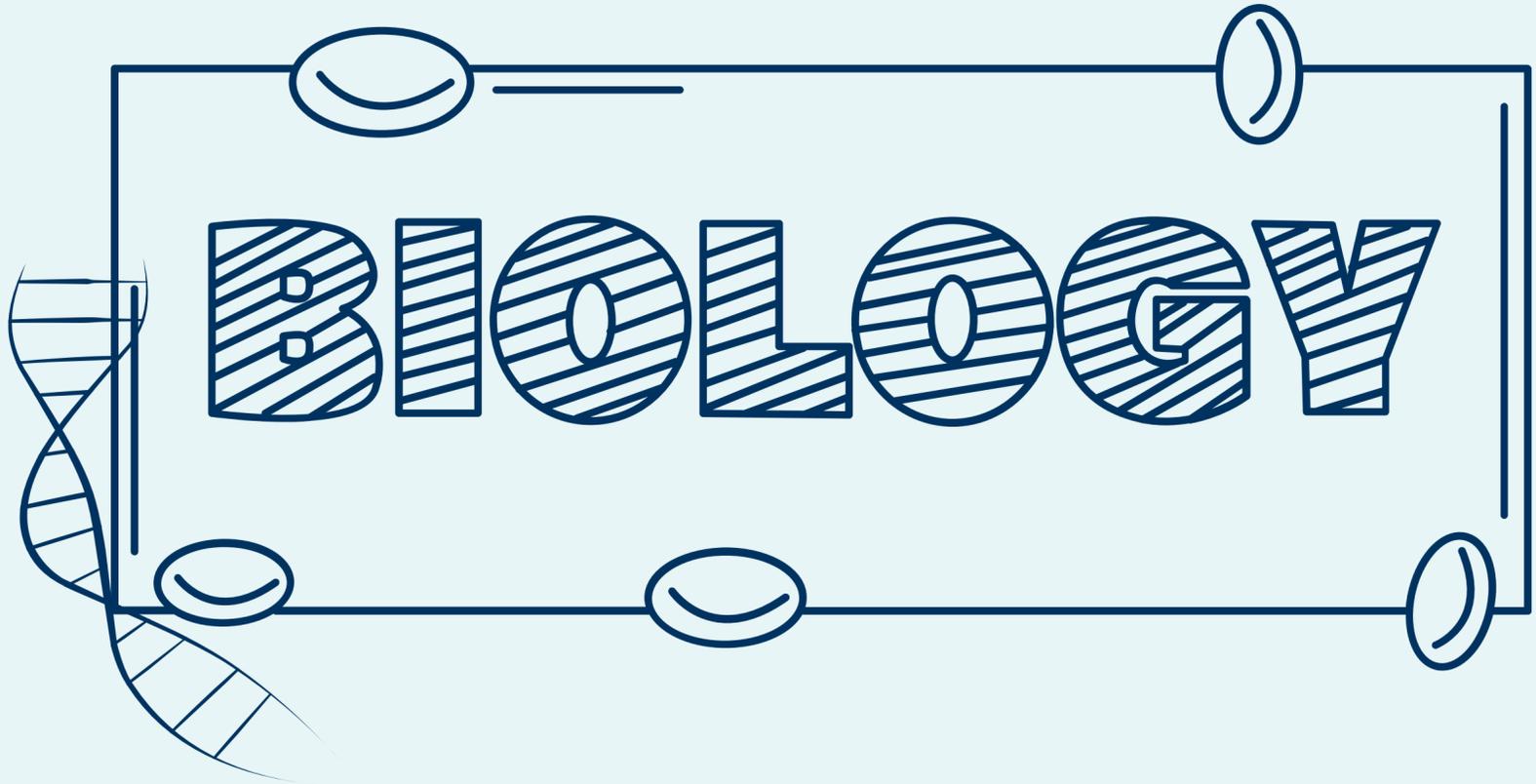


Quiz time

Lec 10



Which of the following is a primary function of the cell nucleus?

- A. Producing ATP for cellular energy
- B. Storing genetic information and controlling cell activities
- C. Breaking down cellular waste
- D. Transporting substances across the cell membrane

Answer: B

Which of the following statements about Pars amorpha is TRUE?

- A. It is the dark-staining part of the nucleolus where proteins are stored.
- B. It is a rounded pale area of the nucleus containing nucleolar organizers responsible for rRNA formation.
- C. It is located in the cytoplasm and helps in ATP production.
- D. It is the site where DNA replication occurs exclusively.

Answer: B

What is nucleoplasm?

- A. The lipid membrane surrounding the nucleus
- B. Dense DNA region forming rRNA
- C. Cytoplasmic fluid outside the nucleus
- D. Semifluid substance inside the nucleus containing proteins and fibrillar structures (nucleoskeleton)

Answer: D

Which of the following statements about chromatin is TRUE?

- A. It is composed of single-stranded RNA and lipids.
- B. Euchromatin is the condensed, inactive form of chromatin.
- C. Chromatin is a thread-like structure of double-stranded DNA combined with histones, with euchromatin being the active form.
- D. Heterochromatin is responsible for the basophilia of the cytoplasm.

Answer: C

