

Prokaryotic vs Eukaryotic Cells Quiz PDF

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What type of ribosomes are found in prokaryotic cells?

- 60S
- 70S
- 80S
- 90S

In which type of cell would you find mitochondria?

- Prokaryotic
- Eukaryotic
- Both
- None of the above

How do the cell walls of plants and bacteria differ in composition and function?

Discuss how the presence of membrane-bound organelles in eukaryotic cells contributes to their complexity.

Which of the following organisms is an example of a eukaryote?

- Bacteria
- Archaea
- Fungi
- Virus

Explain the role of plasmids in prokaryotic cells and why they are important.

Why is the evolutionary timeline of prokaryotic and eukaryotic cells significant in understanding cellular evolution?

Describe the differences in DNA organization between prokaryotic and eukaryotic cells.

Which of the following are true about prokaryotic cells? (Select all that apply)

- They have a nucleus.
- They reproduce by binary fission.
- They contain plasmids.
- They have linear DNA.

Which of the following are characteristics of eukaryotic cells? (Select all that apply)

- Presence of a nucleus
- Circular DNA
- Membrane-bound organelles
- Smaller size than prokaryotic cells

What features are unique to eukaryotic cells compared to prokaryotic cells? (Select all that apply)

- Presence of a nucleoid
- Linear DNA
- Larger ribosomes
- Lack of membrane-bound organelles

Which cell type is believed to have appeared first in evolutionary history?

- Prokaryotic
- Eukaryotic
- Both appeared simultaneously
- None of the above

Which of the following structures is absent in prokaryotic cells?

- Ribosomes
- Nucleus
- Cell membrane

Cytoplasm

What is the primary method of reproduction in prokaryotic cells?

- Mitosis
- Meiosis
- Binary fission
- Budding

Which of the following structures can be found in both prokaryotic and eukaryotic cells? (Select all that apply)

- Ribosomes
- Mitochondria
- Cell membrane
- Nucleus

Compare and contrast the processes of mitosis and binary fission. How do these processes reflect the complexity of the cells involved?

Which processes are involved in eukaryotic cell division? (Select all that apply)

- Binary fission
- Mitosis
- Meiosis
- Budding

Which type of cell is generally larger in size?

- Prokaryotic
- Eukaryotic
- Both are the same size
- None of the above

What are some examples of eukaryotic organisms? (Select all that apply)

- Plants
- Animals
- Bacteria
- Fungi

What is the composition of the cell wall in most bacteria?

- Cellulose
- Chitin
- Peptidoglycan
- Lignin