

Biology Toolkit: Indicator 3.4.2

Student Handout: Biology: Indicator 3.4.2

Goal 3.0 Concepts Of Biology

Expectation 3.4 The student will explain the mechanism of evolutionary change.

Indicator 3.4.2 The student will estimate degrees of relatedness among organisms or species.

Assessment Limits:

classification (recognize relationships among organisms; distinguish between prokaryotes and eukaryotes)

anatomical similarities (evolutionary relationships; homologous structures)

similarities of DNA base and/or amino acid sequence (including results from gel electrophoresis)

Public Release - Selected Response Item - Released in 2009

Biology Indicator 3.4.2

A cell is observed through a microscope. The cell is found to have a cell wall, a cell membrane, and numerous ribosomes. The cell does not have a nucleus. This cell is most likely from a

- A. bacterium
- B. fungus
- C. plant
- D. protist

Correct Answer

- A. bacterium

Item

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