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# CSU Life 103 Final Exam 2024

Eukaryotic cells evolved when an ancestral host cell, probably a \_\_\_\_\_, formed a mutualistic, endosymbiotic relationship with \_\_\_\_\_ - Answer-Archaeon; an alphaprotobacteria

Snowball Earth Hypothesis suggests the hardened, spiny exoskeleton evolved as a result of: - Answer-Release of calcium after global glaciations

You find a colony of single celled organisms that are living (thriving and reproducing) in an extreme environment, such as an alkaline or reducing environment. Which group are they most likely to belong to? - Answer-Archaea

Which of the following is a way that prokaryotes generate new genetic variation? - Answer-Transformation (exchange with the environment)

Conjugation (exchange with other cells)

Transduction (exchange via viruses)

Which of the following metabolic strategies are NOT found in eukaryotes? - Answer-Photoheterotrophy

The host cell that is thought to be the ancestor of all eukaryotes was probably: - Answer-Anaerobic

What do all members of the eukaryotic group Unikonta have in common? - Answer-Chemoheterotrophy

When does meiosis happen in the fungal life cycle? - Answer-Immediately after karyogamy

Which eukaryotic group colonized terrestrial landscapes first? - Answer-Fungi

Lichens are: - Answer-A mutualism between fungi and algae

In ALL land plants, the sporophyte is: - Answer-The multicellular structure that produces spores

# Final Exam Cs

**K Morrison**



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