

FUNGI

24 February 2009, Bonine II

Here are some questions to help you review the material and comprehend important points. I will finish the remaining slides on Thurs 26 Feb. -KEB



Define:

chitin, saprobe, mycelium, hypha, lichen, haploid, diploid, mitosis, meiosis, spore, sex, reproduction, genetic recombination

1. What are the three domains of life? How long ago did Eukarya arise? When in biogeological history did the Opisthokonts last share a common ancestor?
2. Draw a simple, but correct, phylogenetic tree with three terminal taxa: plants, animals, and fungi.
3. How is absorptive nutrition different than what some other organisms do?
4. Unicellular fungi that are not Chytrids are called _____.
5. Are fungi the only decomposers on earth?
6. Explain how the mycorrhizae mutualism works. What does each partner gain?
7. Contrast EMF and AMF in the context of the above question.
8. What would happen to life on earth if there were no decomposers like fungi?
9. How does sexual reproduction differ from asexual.
10. Differentiate among alternation of generations, haplontic, and diplontic.
11. What is unique about the dikaryotic lifestage?
12. How do fission and budding differ?
13. Which fungal phylum has flagella and swimming sperm and is linked to amphibian die offs?
14. Which fungal phylum helps us produce lots of tasty foods like beer, bread, some cheeses – and provides us a common antibiotic.
15. Which fungal phylum do we typically eat on pizza and in salad. Are these tasty morsels haploid, diploid, or dikaryote?

