

FUNGI ON THE WEB

I. Visit <http://www.ucmp.berkeley.edu/fungi/fungi.html> and answer the following:

1. What is the ecologic role of fungi?
2. How are fungi important to plants?
3. How are fungi economically important?
4. List two human fungal diseases.
5. List four plant fungal diseases.
6. What fungus serves as a "model organism" for studying problems in genetics and molecular biology?

II. Click the **Life History and Ecology** link and answer the following:

1. As part of their life cycle, fungi produce _____.
2. Summarize the sexual phase of the fungi life cycle.
3. Describe how fungi obtain nutrients.
4. What is a saprophyte?
5. How does *Arthrobotrys* feed?
6. Explain how mycorrhizae are important to plants.

III. Now click the **Systematics** link and answer the following:

1. List the four fungal phyla.
2. What are lichens?

IV. Follow the **More on Morphology** link and answer the following:

1. Explain how the following terms relate to fungi: hyphae, mycelium, coenocytic, septate, and chitin.
2. What other group of organism contains chitin?

V. Visit <http://herbarium.usu.edu/fungi/FunFacts/factindx1.htm> and answer the following:

1. What is a "fairy ring" and how do they form?
2. Summarize the life cycle of *Pilobus* a "fungal shotgun."
3. Define biocontrol and provide a fungal example ("Terminators").
4. Return to the **Fun Facts About Fungi** page and select a link find interesting. Summarize.