

What are the Domain, Kingdom and Phylum of the organism below?

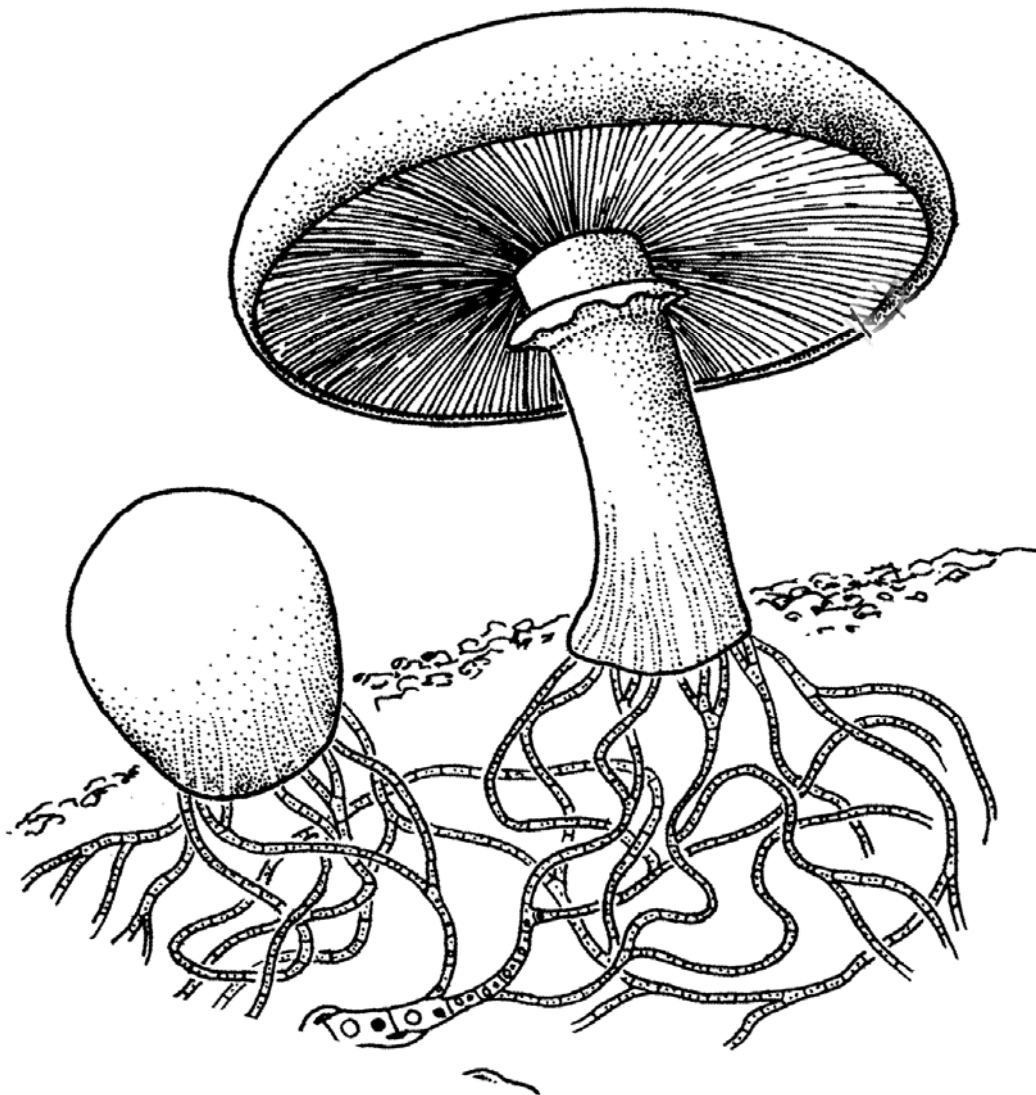
Is this organism autotrophic or heterotrophic?

How does this organism get its food?

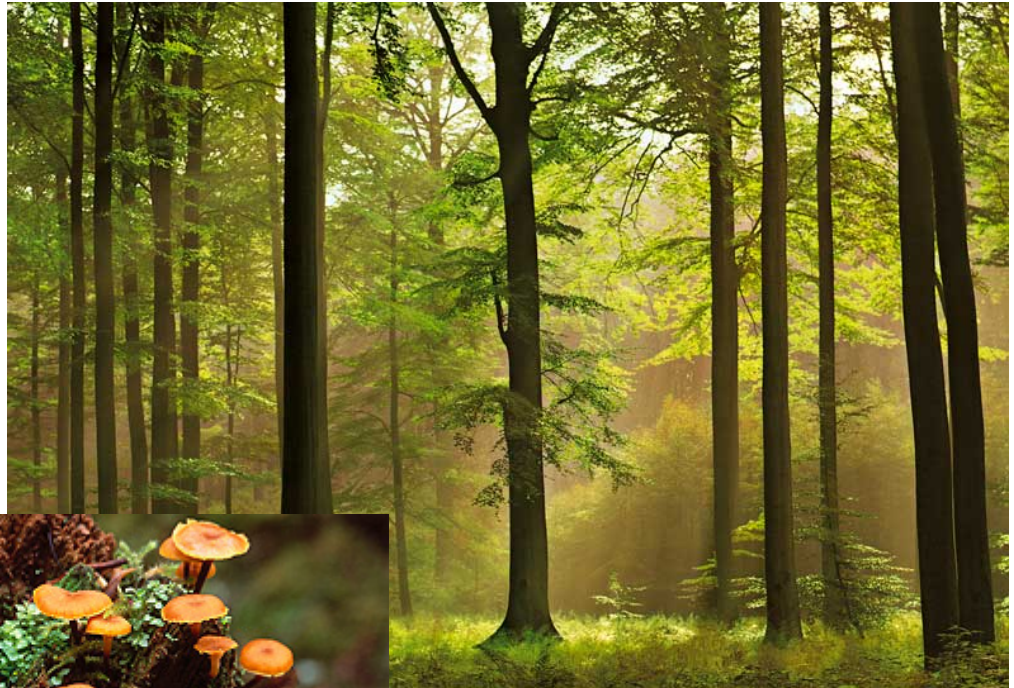
What are the unique characteristics of this kingdom?

Where is the hyphae?

Where is the fruiting body?



Name at least two ecological roles of fungi.

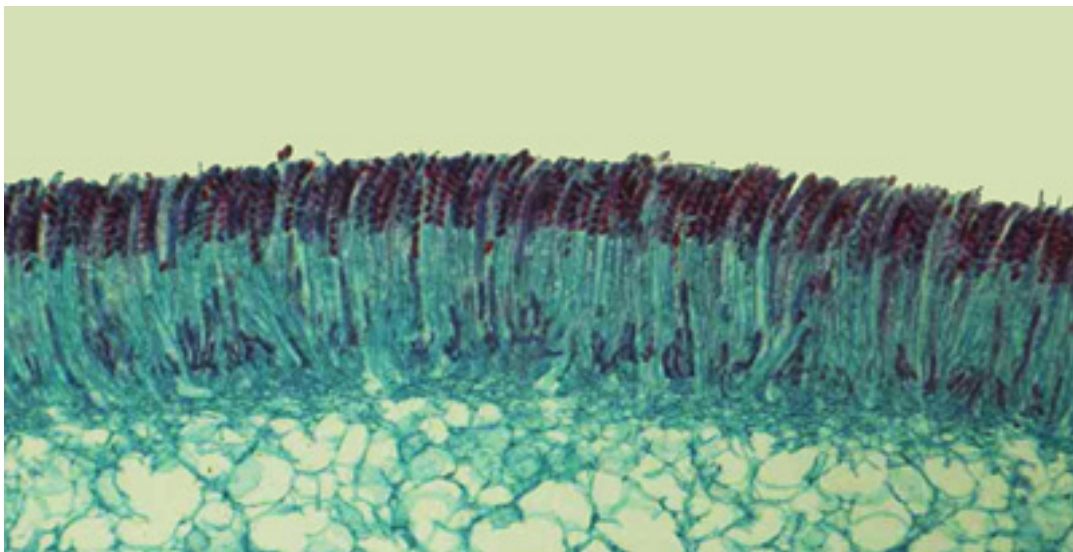
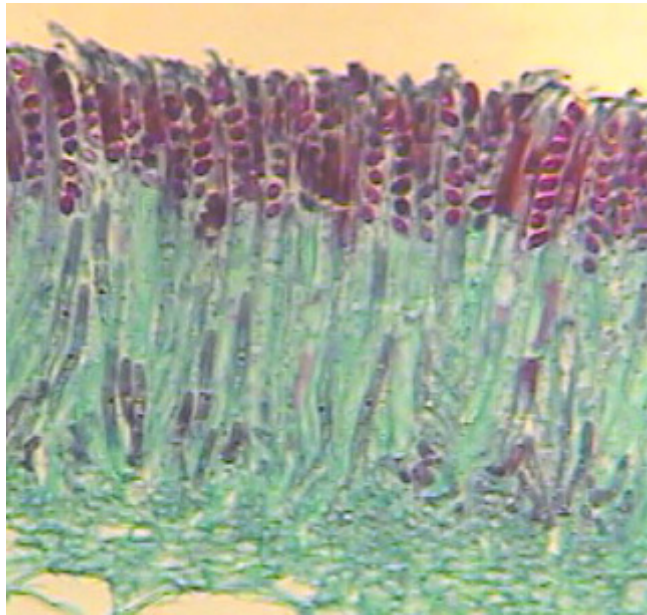


How are fungi economically valuable? Give at least three examples.



Is this a sac fungi or club fungi?

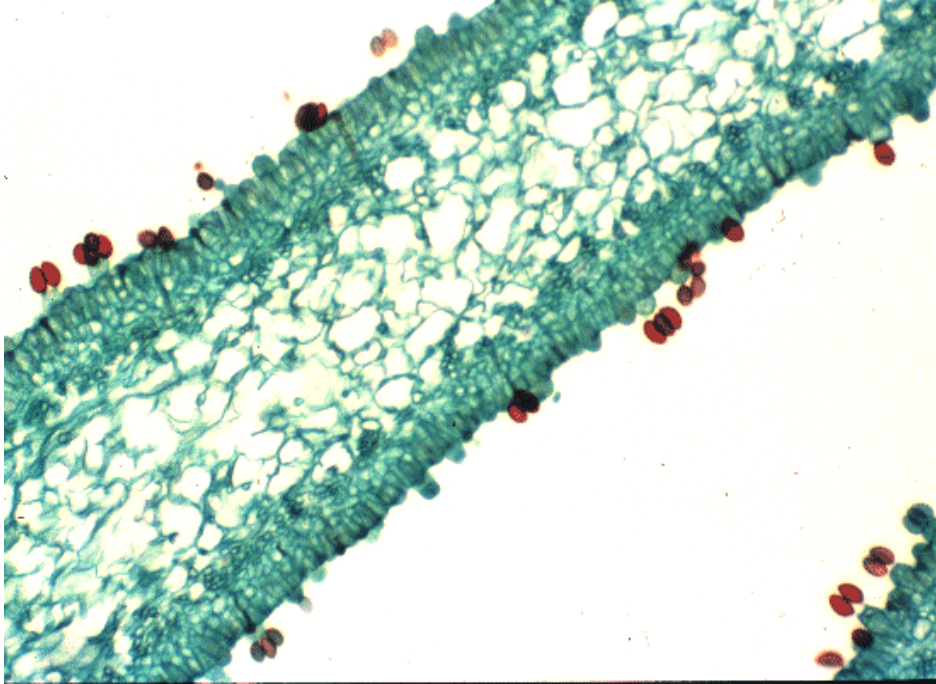
Locate the asci sacs and the spores.



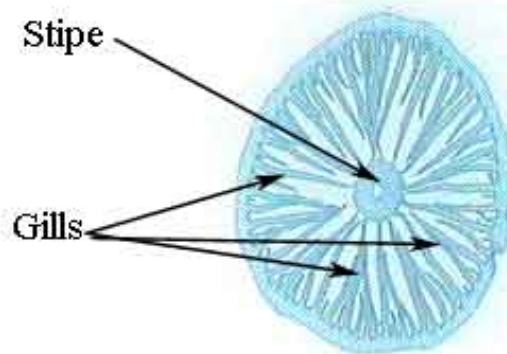


Is this a sac fungi or club fungi?

Locate the basidia (or clubs) and the spores.



*Coprinus sp.* Inky Cap Mushroom  
40x

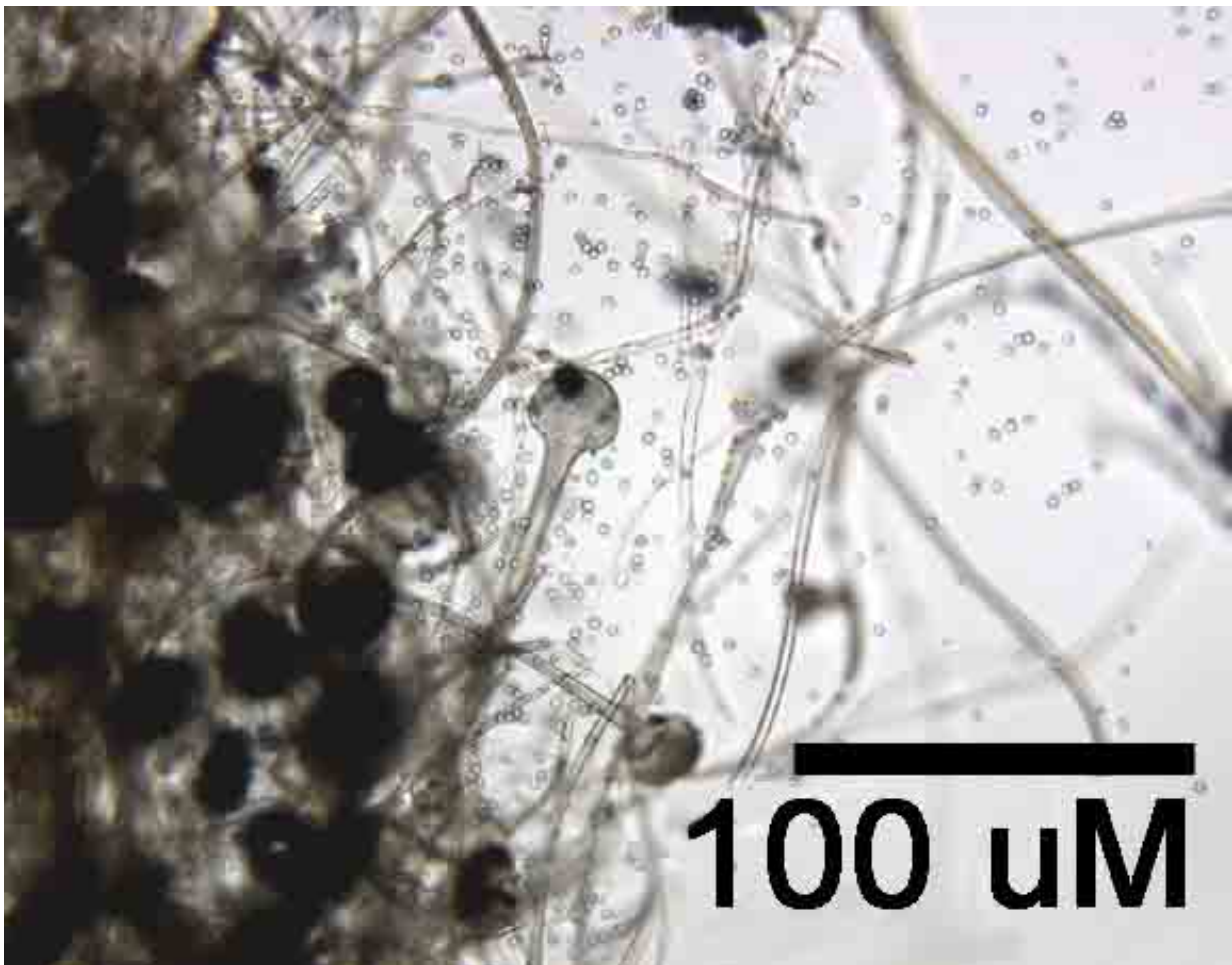


**Section through the cap showing the gills**  
(Gills bear the basidia along their surfaces)

What is the phylum of fungi shown here?

Identify hyphae, sporangium, and spores.

Is this an example of sexual or asexual reproduction?



What are two requirements for fungal growth?



A lichen is made up of two kinds of organisms, from two different kingdoms. Name the organisms and the kingdoms.



These three pictures represent three different forms of lichens. What are they?

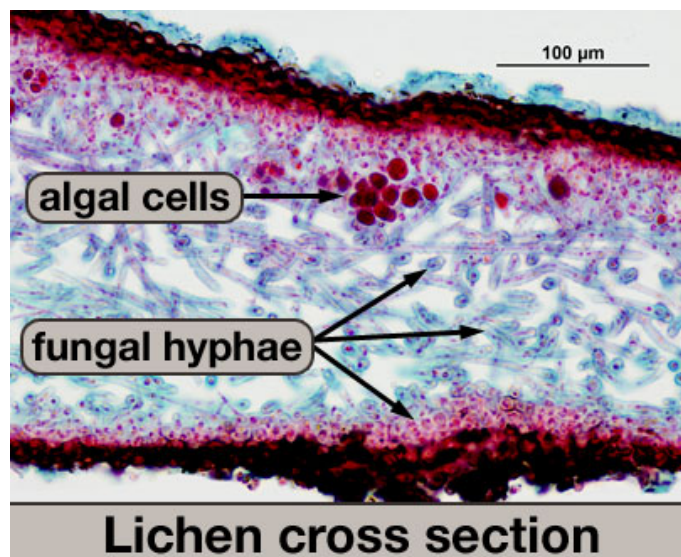
Which organism in a lichen is autotrophic and which is heterotrophic?

Which organisms absorbs H<sub>2</sub>O and mineral nutrients?

Which provides sugar nutrients?

Lichen are an example of which of the following types of symbiosis:

- a) parasitic
- b) commensal
- c) mutualistic



Asexual reproduction: what is the spore-producing structure? In Basidiomycota? Ascomycota? Zygomycota?

Sexual reproduction: What is the spore-producing structure? In Basidiomycota? Ascomycota? Zygomycota?

What are the three phylums of Fungi?

Briefly describe the major characteristics of each phylum.

Give two examples of each phylum.

Why do you think Fungi do both, asexual and sexual reproduction?

Advantages and disadvantages of both?

What is a mushroom?

On a button mushroom, why are the gills so flat and thin?

What is a fruiting body?

What is an example of a fruiting body of a Basidiomycete?



Are spores on a mushroom produced sexually or asexually?

Where are spores produced on Club Fungi? On Puffballs?

In Ascomycota, how many spores are in an ascus?

Is an ascus associated with sexual or asexual reproduction?

What happens to the spores after they are released from the ascus?

What is the gas released during fermentation?

Briefly describe how a fungus gets its nutrients.