Chapter 23 Fungi

True or False

Fungi are closely related to plants

Fungi are economically valuable.

Many fungi are beneficial to other organisms.

Where have you seen fungus grow?

Some of the most unusual organisms that exists are in this _____

Some grow so fast they can appear

First grouped with plants because they are _______, have a cell wall, and in

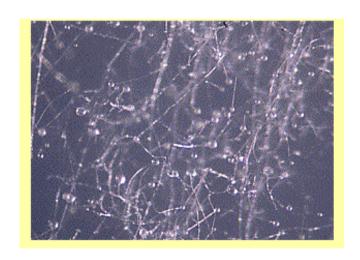


Characteristics of Fungi

Fungi are heterotrophicthey do not contain ______.

They obtain energy by breaking down
molecules that they absorb from
their environment

Fungi have filamentous bodiesthey are made of long slender



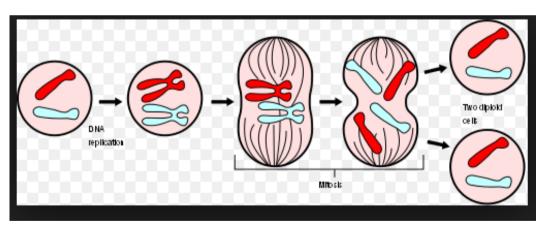
http://www.ucmp.berkeley.edu/fungi/fungimm.html

Fungal cell contain chitin- chitin is a tough polysaccharide found in the shells of _____.

Plants cells are made of _____ not polysaccharide.

Fungi exhibit nuclear mitosis-

the ____ membrane does not disappear so chromosomes are dragged to sides of the ____ not the cell.



http://www.diffen.com/difference/Meiosis_vs_Mitosis

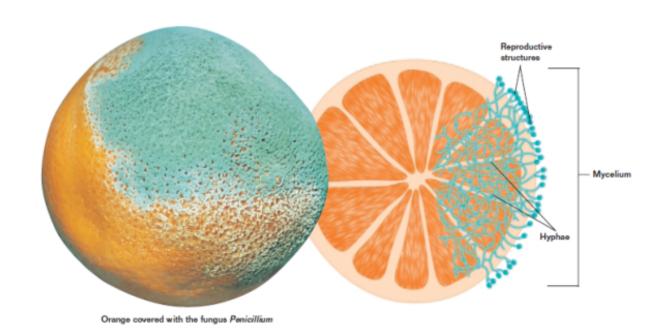
Fungi are well suited for absorbing



http://en.wikipedia.org/wiki/Fungus

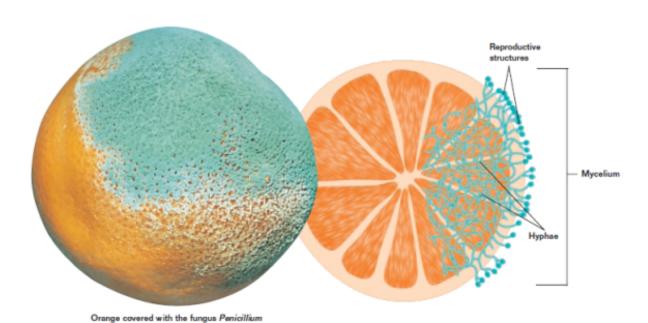


The green and white fuzz is actually the reproductive _____ of the fungus. The _____ of the fungus is inside the orange.



Hyphae- slender _____ in the bodies of fungi

Mycelium-mass of hyphae that form the body if _____



This high surface area to volume ratio makes to best for absorbing

How fungi absorb nutrients.

They secrete _____ enzymes that break down organic matter in their _____.

They can decompose things like leaves, _____, dead animals, and waste

They are recyclers but some are also parasites that live on hosts live



They can cause things like ______ foot and infection



http://commons.wikimedia.org/wiki/File:Severe_athletes_foot.JPG

Bread fruit, vegetables and meat are as ____ as a log. They will also attack paper, ____, cloth, paint, and leather.



http://moldremediation 101.com/types-of-mold/

Unicellular fungi called _____ are useful in baking, brewing, and wine making.

They are also used in making _____ and in making penicillin.



http://www.cookingforengineers.com/article/213/Bakers-Yeast

Fungi reproduce	and
•	

They release spores formed sexually and asexually. The reproductive spores grow the food source so the air can spread them. They can remain in the air for a long time.

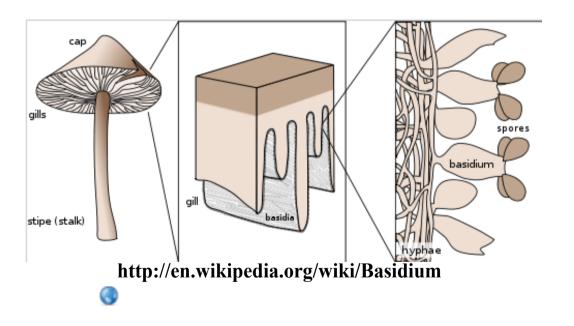
What are all the different ways that organisms are classified?

Fungi are _____ by their sexual reproductive structures

Asexual reproduction

Deuteromycetes- group of fungi with no sexual stage seen This includes things like *Penicillium* (makes penicillian), and Aspergillus (which makes sauce) Also cause things lik athlete's foot and ringworm. bread This is the group for mold.

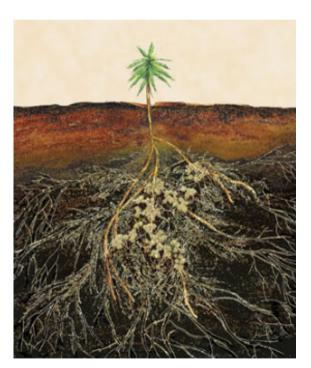
Basidium- the club shaped sexual structure for which this group is names.



Fungi form symbiotic relationships with plant roots

Mycorrhizae

A type of mutalisitc relationship formed between fungi and _____ plant roots



http://www.finegardening.com/how-to/articles/mycorrhizae-help-feed-your-plants.aspx

Hyphae transfers phosphorus and other materials from the soil to the roots of the plant and the plant gives carbohydrates to the _____

Fungi form symbiotic relationships with

Lichen- symbiosis between a fungus and a photosynthetic _____ like green

alga, a cynobacteria, or both



Lichen-covered tree: Grey, leafy

Parmotrema perlatum on upper half of trunk;
yellowy-green Flavoparmelia caperata on
middle and lower half and running up the
extreme right side; and the fruticose
Ramalina farinacea. Tresco, Isles of Scilly,
UK

http://en.wikipedia.org/wil

