

Chapter 31: Fungi

Concept 31.1 Fungi are heterotrophs that feed by absorption

- Fungi are heterotrophs that acquire their nutrients by absorption.
 - Powerful hydrolytic enzymes secreted by the fungus break down food outside its body into simpler compounds that the fungus can absorb and use.
 - Fungi then absorb small organic molecules from the surrounding medium.
- The absorptive mode of nutrition is associated with the ecological roles of fungi as decomposers.
- Decomposer fungi break down and absorb nutrients from nonliving organisms.

The ecological success of fungi is partially due to a body structure that increases the efficiency of nutrient absorption.

- Yeasts are single-celled fungi, but most species of fungi are multicellular.
- The vegetative bodies of multicellular fungi are constructed of tiny filaments called **hyphae** that form an interwoven mat called a **mycelium** that infiltrates the material on which the fungus feeds.
 - Fungal mycelia can be huge, but they usually escape notice because they are subterranean.
- Fungal hyphae have cell walls built mainly of **chitin**, a strong but flexible nitrogen-containing polysaccharide identical to that found in arthropods.
- The filamentous structure of the mycelium provides an extensive surface area that suits the absorptive nutrition of fungi.
- Most fungi are multicellular with hyphae divided into cells by cross walls, or **septa**.
 - Septa generally have pores large enough for ribosomes, mitochondria, and even nuclei to flow from cell to cell.
- Mutually beneficial relationships between fungi and plant roots are called **mycorrhizae**.
- Mycorrhizal fungi can improve the delivery of phosphate ions and other minerals to plants because the vast mycelial networks of fungi can effectively acquire these minerals from the soil.
 - In exchange, the plants supply the fungi with organic nutrients such as carbohydrates.

Concept 31.2 Fungi produce spores through sexual or asexual life cycles

- Fungi reproduce by producing vast numbers of spores, either sexually or asexually.
 - The output of spores from one reproductive structure can be enormous: puffballs release trillions of spores in cloud-like bursts.
- Dispersed widely by wind or water, spores germinate to produce mycelia if they land in a moist place where there is food.
- Sexual reproduction in fungi begins when hyphae from two genetically distinct mycelia fuse.

Concept 31.5 Fungi play key roles in nutrient cycling, ecological interactions, and human welfare

Fungi and animals may be mutualistic symbionts.

- Some fungi break down plant material in the guts of cows and other grazers.
- Many species of ants and termites raise fungi in “farms” and feed them leaves.
 - The fungi break the leaves down into a substance that the insects can digest and feed the ants with specialized swollen hyphal tips that are rich in proteins and carbohydrates.

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