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Crash Course BIOLOGY (2012 SERIES) 40 Episode Series Bundle

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Crash Course Biology (2012) #39: Fungi

Name: _____ Date: _____

You can access the video here → <https://youtu.be/m4DUZheN04s?si=827op2TbaQB8611T>

- _____ are heterotrophs that absorb nutrients rather than ingesting food.
- Most multicellular fungi grow as tiny filaments called _____ that infiltrate their food.
- Fungal cell walls are strengthened by _____, a nitrogenous carbohydrate also found in arthropod exoskeletons.
- The interwoven feeding network of hyphae is the _____, enabling massive surface area.
- To digest outside their bodies, fungi secrete powerful _____ before absorbing the products.
- Decomposer fungi absorb nutrients from _____ organic material such as fallen trees.
- Many plant roots rely on _____ to boost phosphate uptake in exchange for sugars.
- Specialized hyphae called _____ penetrate root tissues during these mutualisms.
- Some fungi are _____, using hyphal loops to snare nematodes.
- The "zombie ant" manipulator, _____, times spore release with ant behavior.
- In sexual cycles, cytoplasmic fusion between partners—_____—precedes spore formation.
- Morels produce spores in sac-like _____ housed within ascocarps.
- For long-distance dispersal, fungi release vast numbers of _____ to wind, water, or animals.
- In unicellular fungi, such as _____, asexual reproduction often occurs by budding.
- Heating beverages to ~55–60 °C for short periods—a process called _____—inhibits spoilage microbes.

Crash Course Biology (2012) #39: Fungi - KEY

- Fungi are heterotrophs that absorb nutrients rather than ingesting food.
- Most multicellular fungi grow as tiny filaments called **hyphae** that infiltrate their food.
- Fungal cell walls are strengthened by **chitin**, a nitrogenous carbohydrate also found in arthropod exoskeletons.
- The interwoven feeding network of hyphae is the **mycelium**, enabling massive surface area.
- To digest outside their bodies, fungi secrete powerful **enzymes** before absorbing the products.
- Decomposer fungi absorb nutrients from **nonliving** organic material such as fallen trees.
- Many plant roots rely on **mycorrhizae** to boost phosphate uptake in exchange for sugars.
- Specialized hyphae called **haustoria** penetrate root tissues during these mutualisms.
- Some fungi are **predators**, using hyphal loops to snare nematodes.
- The "zombie ant" manipulator, **Ophiocordyceps**, times spore release with ant behavior.
- In sexual cycles, cytoplasmic fusion between partners—**plasmogamy**—precedes spore formation.
- Morels produce spores in sac-like **asci** housed within ascocarps.
- For long-distance dispersal, fungi release vast numbers of **spores** to wind, water, or animals.
- In unicellular fungi, such as **yeast**, asexual reproduction often occurs by budding.
- Heating beverages to ~55–60 °C for short periods—a process called **pasteurization**—inhibits spoilage microbes.

15 Questions

Answer Key Included

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