

Domain Eukarya
Kingdom Fungi

- Eukaryotic- haploid cells from two mating strains will fuse their cytoplasm
- Eukaryotic- fusion of the nuclei to become a diploid zygote
- Chytridiomycota, Zygomycota, Ascomycota, Basidiomycota



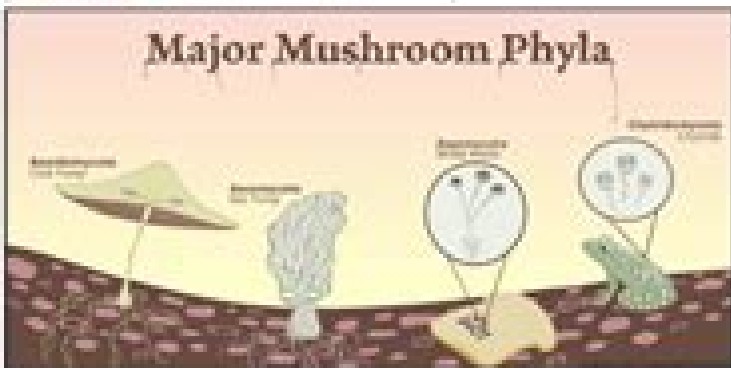
Diversity of Fungi

First, A Review of the phyla belonging to Kingdom Fungi

- The four fungal phyla can be distinguished by their reproductive features.

Table 21.1 Review of Fungal Phyla

Phylum	Key Reproductive Feature
Chytridiomycota	Single spore with flagellum
Zygomycota	Sexual reproduction in zygote stage
Ascomycota	Sexual spores borne externally in sac called ascus
Basidiomycota	Sexual spores borne externally on club shaped structure called basidium



Phylum	Size	Characteristics	Reproduction	Reproduction
Zygomycota	Broad mold, microscopic to large fungus	Cellular cell walls, Coenocytic + hyaline (clear) mycelium	Collapses around stage from zygospore	Sexual spores from the zygote
Ascomycota	Fungi, yeasts, truffles		External on basidiophores	Spores in 8 - from the ascus, development in ascus
Basidiomycota	Mushrooms, bracket fungi, toadstools, etc.	Cellular walls in hyphae	External to cells of basidiophores, which produce basidiospores	Sexual spores from basidium in basidium to produce basidiospores

- Chytridiomycota**
- Ascomycetes (phylum Ascomycota) live in marine, freshwater, and terrestrial habitats
 - The phylum is defined by production of sexual spores in a sac-like, usually rounded or flask-like structure called a zygospore
 - Ascomycetes are commonly called **ascomycetes**
- Basidiomycota**
- Ascomycetes only in size and complexity from microscopic yeasts to elaborate tree fungi and mushrooms
- Basidiomycota**
- Basidiomycetes (phylum Basidiomycota) include mushrooms, puffballs, and shelf fungi, rusts, and plant parasites
 - The phylum is defined by a clublike structure called a **basidium**, a transient diploid stage in the life cycle
 - The basidiomycetes are also called **club fungi**



- Zygomycota**
- The zygomycetes (phylum Zygomycota) exhibit great diversity of life histories
 - They include fast-growing molds, parasites, and commercial mycelium
 - The zygomycetes are named for their sexually produced zygospore
 - Zygomycetes, which are resistant to freezing and drying, can survive unfavorable conditions

Fungi Study Guide

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Fungi Study Guide:

Identifying Mushrooms David Norman Pegler, Brian Spooner, 1994 **A Guide to the Study of Basic Medical Mycology** Kee Peng Ng, Shiang Ling Na, Tuck Soon Soo-Hoo, 2014-09-11 Mycotic diseases are gaining importance because of the increase in opportunistic fungal infections in patients whose immune systems are compromised The identification of fungi isolated from clinical material has posed a variety of problems to many laboratories because of lack of expertise and experience especially in the identification of recently emerged rare fungi that had not been previously reported A Guide to the Study of Basic Medical Mycology offers an overview of the basic characteristics of fungi frequently isolated from clinical specimens This comprehensive guide developed by authors Kee Peng Ng Tuck Soon Soo Hoo and Shiang Ling Na from the Department of Medical Microbiology University Malaya Medical Centre Malaysia details the macro and microscopic features of each fungus through graphics and illustrations Including specimens not often found in all teaching modules A Guide to the Study of Basic Medical Mycology serves to help medical students identify and learn to deal with clinically important fungi and fungal pathogens Student Study Guide to Accompany Botany, Second Edition, Moore, Clark, Vodopich Rebecca McBride DiLiddo, Randy Moore, 1998 **Student Study Guide for Biology [by] Campbell/Reece** Martha R. Taylor, 2002 Marty Taylor Cornell University Provides a concept map of each chapter chapter summaries a variety of interactive questions and chapter tests **Study Guide to Accompany Microbiology, Fourth Edition** George A. Wistreich, 1984 **A Nature Study Guide** William S. Furneaux, 1912 *Test Items and Interactive Electronic Study Guide Questions for Starr's Biology : Concept and Applications* Larry G. Sellers, 2000 Study Guide for Starr and Taggart's Biology, the Unity and Diversity of Life Jane B. Taylor, 1989 *SCM Studyguide to Science and Religion* Jean Dorricott, 2005 This undergraduate level one textbook provides an introduction to the apparently incompatible subjects of religion and science Each chapter contains references for finding out more about particular arguments be they scientific or religious areas for discussion Where particularly difficult concepts are referred to in the body of the text further explanations are provided in boxed sections *Readers' Guide* , 1912 Journal of Applied Microscopy and Laboratory Methods L. B. Elliott, 1899 *Journal of the Royal Society of New Zealand* , 1984-09 **Teacher's Wraparound Edition: Two Biology Everyday Experience** Albert Kaskel, 1994-04-19 *Journal of applied microscopy and laboratory methods* , 1899 **Journal of Applied Microscopy** , 1899 **Glencoe iScience: From Bacteria to Plants, Student Edition** McGraw Hill, 2001-05-23 With the 15 Life Earth and Physical Science titles in the Glencoe series you can select the specific topics you want to cover and customize your science curriculum any way you want Integrate topics from other content area to meet any curriculum requirements As students complete each book they see the progress they re making and feel a sense of accomplishment Only from Glencoe Foldables are unique hands on tools that help students create an interactive strategy for organizing what they read As they work through each chapter your students add more detail to their Foldables until they ve created a comprehensive snapshot

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