

Biology Guide 31 Fungi

Outline of cell biology outline is provided as an overview of and topical guide to cell biology: Cell biology - A branch of biology that includes study of cells regarding their physiological The following outline is provided as an overview of and topical guide to cell biology: 2042dcb8ba

Edible mushroom Edible mushrooms are consumed for their nutritional and culinary value. Mushrooms, especially dried shiitake, are sources of umami flavor. mushrooms are the fleshy fruit bodies of numerous species of macrofungi (fungi that bear fruiting structures large enough to be seen with the naked eye) Edible mushrooms are the fleshy fruit bodies of numerous species of macrofungi (fungi that bear fruiting structures large enough to be seen with the naked eye). Mushrooms that have a particularly desirable taste are described as "choice". Edibility may be defined by criteria including the absence of poisonous effects on humans and

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desirable taste and aroma 2042dcb8ba

A characteristic that places fungi in a different kingdom from plants, bacteria, and some protists is chitin in their cell walls. Fungi, like animals, are heterotrophs; they acquire their food by absorbing dissolved molecules, typically by secreting digestive enzymes into their environment. Fungi do not photosynthesize. Growth is their means of mobility, except for spores (a few of which are flagellated), which may travel through the air or water. Fungi are the... 2042dcb8ba

Bruce A. Fuhrer OAM (31 December 1930 - 31 March 2023) was an Australian botanist and photographer, specialising in cryptogams. His photographic collection of fungi numbers more than 3000 species. His photographic collection of fungi numbers Bruce Alexander Fuhrer OAM (31 December 1930 - 31 March 2023) was an Australian botanist and photographer, specialising in cryptogams 2042dcb8ba

History of biology The history of biology traces the study of the living world from ancient to modern times. Prominent in this movement were Vesalius and Harvey, who used experimentation and careful observation in physiology. This ancient work

was further developed in the Middle Ages by Muslim physicians and scholars such as Avicenna. During the European Renaissance and early modern period, biological thought was revolutionized in Europe by a renewed interest in empiricism and the discovery of many novel organisms. Although the concept of biology as a single coherent field arose in the 19th century, the biological sciences emerged from traditions of medicine and natural history reaching back to Ayurveda, ancient Egyptian medicine and the works of Aristotle, Theophrastus and Galen in the ancient Greco-Roman world. Although the concept of biology as a single coherent field arose The history of biology traces the study of the living world from ancient to modern times 2042dcb8ba

Arbuscular mycorrhiza type of mycorrhiza in which the symbiont fungus (Arbuscular mycorrhizal fungi, or AMF) penetrates the cortical cells of the roots of a vascular plant An arbuscular mycorrhiza (AM) (plural mycorrhizae) is a type of mycorrhiza in which the symbiont fungus (Arbuscular mycorrhizal fungi, or AMF) penetrates the cortical cells of the roots of a vascular plant forming arbuscules. Arbuscular mycorrhiza is a type of endomycorrhiza along with ericoid mycorrhiza and orchid mycorrhiza (not to be confused with ectomycorrhiza). They are characterized by the

formation of unique tree-like structures, the arbuscules. In addition, globular storage structures called vesicles are often encountered 2042dcb8ba

To ensure safety, wild mushrooms must be correctly identified before their edibility can be assumed. Deadly poisonous mushrooms that are frequently confused with edible mushrooms include several species of the genus *Amanita*, particularly *A. phalloides*, the death cap. Some mushrooms that are edible for... 2042dcb8ba A large proportion of all life on Earth lives in the ocean. The exact size of this "large proportion" is unknown, since many ocean species are still to be discovered. The ocean is a complex three-dimensional world, covering approximately 71% of the Earth's surface. The habitats studied in marine biology include everything from the tiny layers of surface water in which organisms and abiotic items may be trapped in surface tension between the ocean and atmosphere, to the depths of the oceanic... 2042dcb8ba Cell biology - A branch of biology that includes study of cells regarding their physiological properties, structure, and function; the organelles they contain; interactions with their environment; and their life cycle, division, and death. This is done both on a microscopic and molecular level. Cell biology research extends to both the great diversities of single-celled organisms like bacteria and the complex

specialized cells in multicellular organisms like humans. Formerly, the field was called cytology (from Greek κύτος, kytos, "a hollow;" and -λογία, -logia). 2042dcb8ba

Marine biology Given that in biology many phyla, families and genera have some species that live in the sea and others that live on land, marine biology classifies species based on the environment rather than on taxonomy. Marine biology is the scientific study of the biology of marine life, organisms that inhabit the sea. Given that in biology many phyla, families and genera Marine biology is the scientific study of the biology of marine life, organisms that inhabit the sea 2042dcb8ba

Nidulariaceae Commonly known as the bird's nest fungi, their fruiting bodies resemble tiny egg-filled birds' nests. Bird's nest fungi were first mentioned by Flemish The Nidulariaceae (from "nidulus": "small nest") are a family of fungi in the order Agaricales. The five genera within the family, namely, Crucibulum, Cyathus, Mycocalia, Nidula, and Nidularia, are distinguished from each other by differences in morphology and peridiole structure; more recently, phylogenetic analysis and comparison of DNA sequences is guiding new decisions in the taxonomic organization of this family. As they are saprobic, feeding on decomposing organic

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matter, they are often seen growing on decaying wood and in soils enriched with wood chips or bark mulch; they have a widespread distribution in most ecological regions. comparison of DNA sequences is guiding new decisions in the taxonomic organization of this family 2042dcb8ba

Fungus The discipline of biology devoted to the study of fungi is known as mycology (from the Greek *μύκης*, mykes 'mushroom') A fungus (pl. : fungi or funguses) is any member of the group of eukaryotic organisms that includes microorganisms such as yeasts and molds, as well as the more familiar mushrooms. (slime molds) and oomycetes (water molds). These organisms are classified as one of the traditional eukaryotic kingdoms, along with Animalia, Plantae, and either Protista or Protozoa and Chromista 2042dcb8ba

Ammonia fungi Ammonia fungi that develop sporophores after applications of nitrogen-containing materials are currently being studied in the field and laboratory for their mechanisms of colonization, establishment, and occurrence of fruiting. These fungi naturally occur after decomposition events like animal excretion or death. Reproduction can be classified into two categories including early and late

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phase ammonia fungi. The addition of high amounts of ammonia, urea, or other nitrogen-containing materials can cause ideal soil conditions that the ammonia fungi thrive in and then revert to pre-application conditions. Ammonia fungi are characterized by the rapid development and high germination rates of fruiting bodies in the presence of ammonia or other nitrogen-containing Ammonia fungi are characterized by the rapid development and high germination rates of fruiting bodies in the presence of ammonia or other nitrogen-containing materials with alkaline soil conditions 2042dcb8ba

AM fungi help plants... 2042dcb8ba Arbuscular mycorrhizae are formed by fungi in the subphylum Glomeromycotina. This subphylum, along with the Mortierellomycotina, and Mucoromycotina, form the phylum Mucoromycota, a sister clade of the more well-known and diverse dikaryan fungi. 2042dcb8ba

Phylum Nomenclature for algae, fungi, and plants accepts the terms as equivalent. Traditionally, in botany the term division has been used instead of phylum, although the International Code of Nomenclature for algae, fungi, and plants accepts the terms as equivalent. : phyla) is a level of classification, or taxonomic rank, that is

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below kingdom and above class. Depending on definitions, the animal kingdom Animalia contains about 31 phyla, the plant kingdom Plantae contains about 14 phyla, and the fungus kingdom Fungi contains about eight phyla. Current research in phylogenetics is uncovering the relationships among phyla within larger clades like Ecdysozoa and Embryophyta 2042dcb8ba

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