

Fungi of the Southern Otway Region

Welcome to the Kingdom Fungi! The Southern Otways region is home to a wide and fascinating diversity of fungi.

The fungi shown in this guide were recorded during Southern Otway Landcare Network (SOLN) field trips in autumn 2009-2011. Fungi were surveyed in a variety of habitats including wet forest, cool temperate rainforest, riparian forest, damp heath scrub, coastal tussock grasslands, as well as a *Pinus radiata* plantation.

Many hundreds, possibly thousands more fungal species exist in the Southern Otways and a selection of fungi field guides are listed below to assist you further with identifications.

Fungus identification

In order to accurately identify fungi, one must first be familiar with the major field characteristics of the various parts of a fungus fruiting body (i.e. features that are visible to the naked eye). The accompanying diagram will help you recognise the major parts.

All living organisms have a scientific name composed of two words, genus followed by species. Many also have common names. Fungus identification to species level often requires examination of microscopic structures such as spores. Therefore, some of the images in this guide were only identifiable to genus level. Keep in mind that it's usually not possible to identify fungi from images alone. The most accurate and efficient way to identify fungi to species level is through taxonomic keys which provide written descriptions of the diagnostic features. You can also further your identification skills by participating in the Field Naturalists Club of Victoria Fungi Group or Fungimap forays.

Edible & poisonous fungi

Many people enjoy collecting wild edible fungi, but be aware that knowledge about edibility of Australian fungi is scant and deadly species are known to exist in Australia. Many cases of poisonings are reported each year, including fatalities. Despite the myriad of folklore 'rules', there are NO rules of thumb to identify the edibility or toxicity of a species. Most poisonous fungi cannot be detoxified by cooking, drying, freezing, or other treatments. The only way to avoid poisoning is to avoid eating toxic species. In the event of a poisoning or suspected poisoning (as some species have delayed symptoms), contact the Poisons Information Centre on 13 11 26 (24 hours a day, 7 days a week).

Please remember that it is illegal to collect fungi from public land without a written permit.

CONTACTS

Victorian Poisons Info Centre
(emergency number) **13 11 26** www.austn.org.au/poisons
Southern Otway Landcare Network 5327 6904 www.soln.org
Fungimap 9252 5374 www.rbg.vic.gov.au/fungimap
Field Naturalists Club of Victoria 9877 9860 www.fncv.org.au
Department of Sustainability & Environment 136 186 www.dse.vic.gov.au
Department of Primary Industries 136 186 www.dpi.vic.gov.au

WEBSITES OF INTEREST

Australian National Botanic Gardens www.anbg.gov.au/fungi/
CSIRO Fungibank www.fungibank.csiro.au/
Interactive Catalogue of Australian Fungi www.rbg.vic.gov.au/dbpages/cat/index.php/fungicatalogue
Atlas of Living Australia www.ala.org.au/
Mykoweb www.mykoweb.com/
Australian fungi blog australianfungi.blogspot.com/

Selected Victorian Fungus Field Guides (available from Fungimap website)

Grey, P. & Grey, E. (2005). *Fungi Down Under*. Fungimap, Melbourne.
McCann, I.R. (2003). *Australian fungi illustrated*. Macdown Productions, Vermont.
Fuhrer, B.A. (2005). *A Field Guide to Australian Fungi*. Bloomings Books, Melbourne.
Young A. M. (2005). *A Field Guide to the Fungi of Australia*. New South Wales University Press, Sydney.

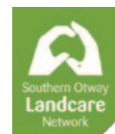
ACKNOWLEDGEMENTS

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Cover image: Yellow-Stemmed Mycena (*Mycena epipterygia*) is a cosmopolitan and saprobic species found in a variety of Otways forest types. It has a cucumber-like odour when stems are bruised.

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Agarics



Amanita ananiceps group
■ GILL M



Amanita farinacea group
■ GILL M



Amanita muscaria
Fly Agaric *
■ GILL M



Cortinarius alboviolaceus
Cortinar
■ GILL M



Cortinarius archeri
Emperor Cortinar
■ GILL M



Cortinarius australbidus
Australian White Webcap *
■ GILL M



Hypholoma australe
■ GILL S



Hypholoma brunneum
Brown Tuft
■ GILL S



Hypholoma fasciculare
Sulphur Tuft
■ GILL S



Mycena epipterygia
Yellow-Stemmed Mycena
■ GILL S



Mycena interrupta
Pixie's Parasol *
■ GILL S



Mycena kuurkacea
Bleeding Mycena
■ GILL S



Amanita xanthocephala
Vermilion Grisette *
■ GILL M



Armillaria luteobubalina
Australian Honey Fungus *
■ GILL P S



Austropaxillus infundibuliformis
Funnel Pax
■ GILL S M



Cortinarius sinapicolor
Slimy Yellow Cortinar
■ GILL M



Cortinarius sp.
Cortinar
■ GILL M



Crepidotus variabilis
■ GILL S



Lactarius deliciosus
Saffron Milk Cap
■ GILL M



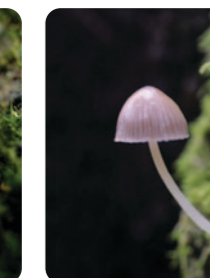
Lactarius eucalypti
Eucalypt Milk Cap
■ GILL M



Lepista nuda
Wood Blewit *
■ GILL S



Mycena sp.
■ GILL S



Mycena sp.
■ GILL S



Mycena sp.
■ GILL S



Bolbitius vitellinus
Egg-Yolk Fieldcap
■ GILL S



Clitocybe paraditopa
Funnel Cap
■ GILL S



Coprinellus disseminatus
Fairy Bonnets
■ GILL S



Dermocybe austroveneta
Green Skinhead *
■ GILL M



Dermocybe sp.
■ GILL M



Gymnopilus junonius
Spectacular Rustgill *
■ GILL S



Macrolepiota clelandii
Parasol Mushroom
■ GILL S



Marasmius alveolaris
■ GILL S



Marasmiellus affixus
Little Stinker
■ GILL S



Mycena subgalericulata
■ GILL S



Mycena viscidocruenta
Ruby Bonnet *
■ GILL S



Omphalotus nidiformis
Ghost Fungus *
■ GILL S P



Coprinus comatus
Lawyer's Wig
■ GILL S



Cortinarius austrocinnabarinus
Cortinar
■ GILL M



Cortinarius rotundisporus
Elegant Blue Webcap *
■ GILL M



Hygrocybe sp.
Waxgill
■ GILL S



Hygrocybe sp.
Waxgill
■ GILL S



Hygrocybe miniata group
Waxgill
■ GILL S



Marasmius elegans
Velvet Parachute *
■ GILL S



Marasmius oreades
Fairy Ring Champignon *
■ GILL S



Mycena cystidiosa
Tall Mycena
■ GILL S



Psathyrella aff. pennata
■ GILL S



Psathyrella asperospora
■ GILL S



Psilocybe subaeruginosa
Blue-Staining Psilocybe
■ GILL S

Agarics / Boletes / Leathers

Jellies / Corals / Lichens

Polypores / Chantarelles / Stinkhorns / Discs

Cups / Discs / Clubs / Pins

Puffballs / Earthstars / Tooth Fungi / Slime Moulds



Russula clelandii
GILL M



Boletellus emodensis
Shaggy Cap
PORE M



Podoscypha petalodes
Rosette Fungus
LEATHER S



Calocera sinensis group
Pretty Horn
JELLY S



Tremella mesenterica group
Yellow Brain *
JELLY S



Clavaria amoena
Yellow Club Coral Fungus
CORAL S



Panellus pusillus
Little Ping-Pong Bat *
PORE S



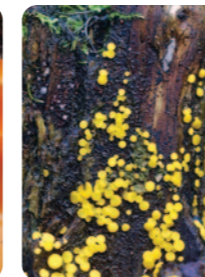
Piptoporus australiensis
Curry Punk *
PORE P



Craterellus cornucopioides
Horn of Plenty *
GILL M



Aleuria aurantia
Orange Peel Fungus
CUP S



Bisporella citrina
DISC S



Cordyceps gunnii
Dark Vegetable Caterpillar *
CLUB P



Scleroderma cepa
Earthball
PUFFBALL M



Hydnum repandum
Hedgehog Fungus
TOOTH M



Tubifera ferruginosa
Slime Mould
MYXO S



Russula persanguinea
GILL M



Boletellus obscurecoccineus
Rhubarb Bolete *
PORE M



Stereum hirsutum group
Hairy Curtain Crust *
LEATHER S



Heterotextus peziformis
Golden Jelly Bells
JELLY S



Mucronella pendula
Icicle *
CORAL S



Artomyces austropiperatus
Peppery Coral Fungus
CORAL S



Fistulina hepatica
Beefsteak Fungus *
PORE SP



Rigidoporus laetus
PORE P



Cantharellus concinnus
Chantarelle
GILL M



Peziza repanda
Spreading Brown Cup Fungus
CUP S



Chlorociboria aeruginascens group
Blue Green Stain Fungus
DISC S



Xylaria castorea
Dead Man's Fingers
CLUB S



Lycoperdon pyriforme
Pear-Shaped Puffball
PUFFBALL S



Sarcodon sp.
TOOTH M



Fuligo septica
Dog Vomit Slime Mould *
MYXO S



Xerula australis group
Rooting Shank *
GILL S



Suillus granulatus
Slippery Jack
PORE M



Stereum ostrea
Golden Curtain Crust *
LEATHER S



Pseudohydnum gelatinosum
Toothed Jelly *
JELLY S



Clavaria miniata
Flame Fungus
CORAL S



Baeomyces heteromorphus
LICHEN Y



Fomitopsis lilacinogilva
Lilac Shelf Fungus
PORE P



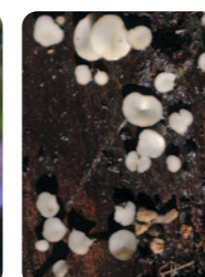
Ryvardenia campyla
Weeping Polypore
PORE S



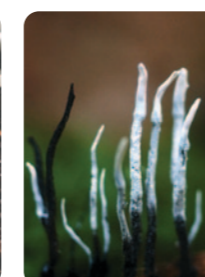
Ileodictyon gracile
Smooth Cage *
CAGE S



Ascocoryne sarcoides
Purple Jelly Disc *
DISC S



Cudoniella pezizoidea
DISC S



Xylaria hypoxylon
Candle Snuff Fungus
CLUB S



Lycoperdon sp.
Puffball
PUFFBALL S



Phellodon niger
TOOTH M



Ceratiomyxa fruticulosa
Icicle Fairy Fans
MYXO S



Schizophyllum commune
Splitgill *
GILL SP



Fistulinella mollis
Marshmallow Bolete
PORE M



Hyphodontia sp.
LEATHER S



Tremella fuciformis
White Brain *
JELLY S



Ramaria ochraceosalmonicolor
CORAL M



Lichenomphalia chromacea
Yellow Navel *
LICHEN Y



Ganoderma australe
PORE P



Trametes versicolor
Rainbow Fungus
PORE S



Poronia erici
Small Dung Button *
DISC S



Scutellinia scutellata
Eyelash Pixie Cup
DISC S



Discinella terrestris
Yellow Earth Buttons
DISC S



Leotia lubrica
Jelly Baby *
PIN S



Geastrum triplex
Collared Earthstar
EARTHSTAR S



Mycoacia subceracea
Golden Splash Tooth *
TOOTH S



Lycogala epidendrum
Wolfs Milk *
MYXO S

Fungal Nutrition

Fungi can be divided into three categories based on how they obtain their nutrition:

1. Most fungi are **saprobic** (saprotrophic) and decompose dead organic matter. They can break down lignin, cellulose and chitin and you'll find them on rotting logs, leaf litter and other organic material.
2. Some fungi are **parasitic** and obtain nutrition from other living organisms, with no benefit to the host. You'll find them on living plants and other fungi, while some specialised groups parasitise invertebrates and other animals.
3. **Mycorrhizal** fungi form symbiotic relationships with living organisms of benefit to both. The hyphae of these fungi form mutually beneficial relationships with the rootlets of plants.

A further symbiosis is that of lichens which is a relationship between a mycobiont (fungus) and a photobiont (an alga or cyanobacterium). Lichens are classified as fungi and two are included in this guide.

These modes of fungal nutrition assist us in identification as particular species are associated with certain habitats or plant species. Nutrition modes are indicated by the following symbols: **M** (mycorrhizal), **S** (saprobic), **P** (parasitic) or **Y** (symbiotic).

Slime Moulds

Another unusual group is the Myxomycota or slime moulds. Slime moulds are not fungi but occupy a kingdom of their own, the Protista. Slime moulds are included in this guide as they've historically been adopted by mycologists, occur in Otway habitats and often arouse interest due to their bright colours and bizarre forms.

Fungal Habitats

Fungi are found in a huge diversity of habitats within the Otways including various forest types, woodlands, heathlands, scrub, grasslands, parks and gardens, and even in sand dunes. Fungi will grow on a variety of substrates such as soil, leaf litter, living or dead wood, animal scats, and other fungi. The type of substrate where each species is usually found is indicated with a colour code: soil ■, wood ■, dung ■ or invertebrate ■.

Fungimap

The Fungimap project is mapping 115 target species that are easily recognised in the field. Those images in this guide that are target species are indicated by an asterisk (*). You may like to contribute your records of target species to the Fungimap project - for record sheets and further information see the Fungimap website.

