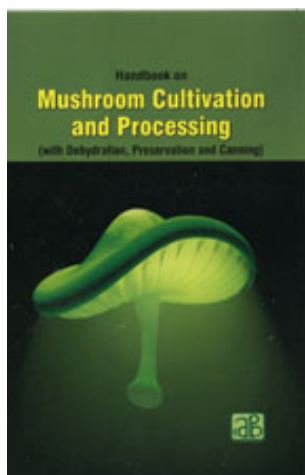


# Handbook on Mushroom Cultivation and Processing (with Dehydration, Preservation and Canning)



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Mushrooms are the health food of the world. These are that fast growing basidiomycetous fungi which produce fleshy fruit bodies. They are rich in proteins, vitamins and minerals, so they are consumed as energy rich food. Mushroom has been attracting attention of mankind since ancient times and use of mushroom, as food is as old as human civilization. Mushrooms are superior to many vegetables and beans in their nutritive value. It is very rich in protein, vitamins and minerals. Fresh mushrooms contain about 85% water and 3.2% protein. But dried mushrooms water content is low and protein level is high as 34 to 44% and the fat content is less than 0.3%. There are about 100 species of edible mushrooms all over the world. But only three of them are cultivated in India which are *Agaricus bisporus*, *Volvariella volvacea* and *pleurotus sajor caju*. Unfortunately, it is realized that mushrooms did not receive universal acceptance over the years since a number of naturally growing mushrooms are poisonous. Now the situation has been changed because the cultivated edible mushrooms are totally safe for human consumption. Mushroom cultivation fits in very well with sustainable farming and has several advantages: it uses agricultural waste products, a high production per surface area can be obtained, after picking; the spent substrate is still a good soil conditioner. They have less carbohydrate so they are believed to be suitable for diabetic patients. Fresh mushrooms have very limited life and hence they need to be consumed within few hours. But processing and canning increases their shelf life to few months. Osmotic dehydration is one of the important methods of processing mushroom which involves drying technology of mushroom. Mushrooms are very popular in most of the developed countries and they are becoming popular in many developing countries like India. Applications and market for mushrooms is growing rapidly in India because of their nice aroma, nutritious values, subtle flavour and many special tastes. Mushroom cultivation has been declared as a major thrust area by Government of India. Mushroom dish is a common item in all the big hotels. Mushroom production has increased many folds during the recent past. Mushrooms have found a definite place in the food consumption habits of common masses and there is a constant demand for it throughout the year.

Some of the fundamentals of the book are nutritive value of edible mushrooms, medicinal value of mushrooms, advantages of mushrooms, symptoms of mushroom poisoning, morphology of common edible

mushrooms, classification of fungi a brief survey, chemical composition, anti nutritional factors and shelf life of oyster mushroom , osmotic dehydration characteristics of button mushrooms, mushroom cultivation, cultivation of white button mushroom (*agaricus bisporus*), factors determining the amount of spawn needed, fungicides for mushroom diseases insecticides for mushroom pests etc. The present book contains cultivation, processing, dehydration, preservation and canning of various species of mushrooms. It is resourceful book for agriculturists, researchers, agriculture universities, consultants etc.

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 Boletus Luridus  
 Schaeff. ex Fr.  
 Devil's Boletus  
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 Boletus Impolitus Fr.  
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 Boletus Aestivalis  
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 Tylopilus felleus (Bull. ex Fr.) P. Karst.  
 Krombholziella Aurantiaca  
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 (Konr.) Sut.  
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 (Fr.) P. Karst.  
 Gomphidius Glutinosus  
 (Schaeff. ex Fr.) Fr.  
 Chroogomphus Rutilus  
 (Schaeff. ex Fr.) O.K. Miller  
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 Hygrophorus eburneus (Bull. ex Fr.) Fr.  
 Goat Moth Wax Cap  
 Hygrophorus Cossus (Sow. ex Fr.) Fr.  
 Pinewood Wax Cap  
 Hygrophorus Hypothejus (Fr.) Fr.  
 Hygrophorus marzuolus  
 (Fr.) Bres.  
 Camarophyllus Pratensis  
 (Pers. ex Fr.) Kumm.  
 Hygrocybe nigrescens  
 (Quel.) Kuhner  
 Hygrocybe punicea  
 (Fr.) Kumm.  
 Omphalina epichysium  
 (Pres. ex Fr.) Quel.



*Gerronema chrysophyllum*  
 (Fr. ) Sing.  
*Laccaria amethystina*  
 (Huds. ex Hook) Cooke  
*Laccaria laccata*  
 (Scop. ex Fr.) Cooke  
*Clitocybe odora*  
 (Bull. ex Fr.) Kumm.  
*Clitocybe clavipes*  
 (Pers. ex Fr.) Kumm.  
*Clitocybe geotropa*  
 (Bull. ex St. Amans) Quel.  
*Clitocybe maxima*  
 (F. Wett. ex Fr.) Kumm.  
 Common Funnel Cap  
*Clitocybe gibba* (Pers. ex Fr.) Kumm.  
*Clitocybe cerussata*  
 (Fr.) Kumm.  
*Clitocybe candicans*  
 (Pers. ex Fr.) Kumm.  
*Clitocybe brumalis*  
 (Fr. ex Fr.) Kumm.  
*Lepista nebularis*  
 (Batsch ex Fr.) Harmaja  
 Wood Blewitt, Blulette, Blue Leg  
*Lepista nuda* (Bull. ex Fr.) W. G. Smith  
 Blewitt, Blulette, Blue Leg  
*Lepista saeva* (Fr.) P. D. Orton  
*Tricholomopsis rutilans*  
 (Schaeff. ex Fr.) Sing.  
*Tricholoma caligatum*  
 (Viv.) Ricken  
*Tricholoma colossus*  
 (Fr.) Quel.  
*Tricholoma Fulvum*  
 (DC. ex Fr.) Sacc.  
*Tricholoma Vaccinum*  
 (Pers. ex Fr.) Kumm.  
*Tricholoma Portentosum*  
 (Fr.) Quel.  
*Tricholoma flavovirens*  
 (Pers. ex Fr.) Lund.  
*Tricholoma sejunctum*  
 (Sow. ex Fr.) Quel.  
 Sulphurous *Tricholoma*  
*Tricholoma Sulphureum* (Bull. ex Fr.) Kumm.  
*Tricholoma Columbeta*  
 (Fr.) Kumm.  
*Tricholoma Terreum*  
 (Schaeff. ex Fr.) Kumm.  
 Honey Fungus, Honey Agaric, Shoestring Mushroom  
*Armillaria mellea* (Vahl. ex Fr.) Kumm.  
*Lyophyllum connatum*

(Schum. ex Fr.) Sing  
*Lyophyllum fumosum*  
 (Pers. ex Fr.) Orton  
*Tephrocybe atrata*  
 (Fr. ex Fr.) Donk  
 St. George's Mushroom  
*Calocybe gambosa* (Fr.) Donk  
 Giant Clitocybe  
*Leucopaxillus giganteus* (Sibth. ex Fr.) Sing.  
*Melanoleuca brevipes*  
 (Bull. ex Fr.) Pat.  
*Catathelasma imperiale*  
 (Fr.) Sing.  
 Wood Woolly-foot  
*Collybia Peronata* (Bolt. ex Fr.) Kumm.  
 Russet Shank  
*Collybia Dryophila* (Bull. ex Fr.) Quel.  
 Greasy Tough Shank  
*Collybia butyracea* (Bull. ex Fr.) Quel.  
 Spotted Tough Shank  
*Collybia maculata* (Alb. et Schw. ex Fr.) Kumm.  
*Hohenbuehelia Petaloides*  
 (Bull. ex Fr.) Schulz.  
*Megacollybia Platyphylla*  
 (Pers. ex Fr.) Kotl. et Pouz.  
 Slimy Beech Tuft  
*Oudemansiella mucida* (Schrad ex Fr.) Hoehn.  
 Rooting Shank  
*Oudemansiella radicata* (Relhan ex Fr.) Sing.  
*Strobilurus Esulentus*  
 (Wulf. ex Fr.) Sing.  
 Little Wheel Toadstool  
*Marasmius rotula* (Scop. ex Fr.) Fr.  
*Marasmius scorodoni* (Fr.) Fr.  
 Fairy Ring Fungus, Fairy Ring Champignon, Scotch Bonnet  
*Marasmius oreades* (Bolt. ex Fr.) Fr.  
 Lilac *Mycena*  
*Mycena pura* (Pers. ex Fr.) Kumm.  
*Mycena rosea*  
 (Bull.) ex Sacc. et Dalla Costa  
*Mycena fagetorum*  
 (Fr.) Gill.  
*Xeromphalina campanella*  
 (Batsch ex Fr.) R. Maire  
 Velvet Shank, Winter Fungus  
*Flammulina velutipes* (Curt. ex Fr.) Sing.  
 The Miller  
*Clitopilus prunulus* (Scop. ex Fr.) Kumm.  
*Nolanea verna*  
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*Entoloma nidorosum*

(Fr.) Quel.  
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Amanita umbrinolutea Secr.  
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Amanita muscaria (L. ex Fr.) Hook  
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(Fr.) Michael  
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Amanita caesarea (Scop. ex Fr.) Grev.  
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Amanita gemmata  
(Fr.) Gill.  
Death Cap  
Amanita phalloides (Fr.) Link  
Destroying Angel  
Amanita virosa (Fr.) Bertillon  
False Death Cap  
Amanita citrina (Schaeff) ex Roques  
Amanita porphyrea  
(Alb. et Schw. ex Fr.) Schummel  
Amanita spissa (Fr.) Opiz  
Blusher  
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Agaricus brunnescens Peck  
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Agaricus silvaticus (Schaeff. ex Krombh) Kumm.  
Common Field Agaric, Meadow Mushroom  
Agaricus campestris L. ex Fr.  
Agaricus augustus Fr.  
Agaricus abruptibulbus Peck  
Horse Agaric, Horse Mushroom  
Agaricus arvensis Schaeff. ex Fr.  
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Agaricus xanthoderma Genev.  
Lepiota cristata  
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Lepiota clypeolaria  
(Bull. ex Fr.) Kumm.  
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Macrolepiota procera (Scop ex Fr.) Sing.  
Shaggy Parasol  
Macrolepiota rhacodes (Vitt.) Sing  
Macrolepiota excoriata  
(Schaeff. ex Fr.) Acker-Sch.  
Cystoderma amianthinum

(Scop. ex Fr.) Maubl  
*Cystoderma cinnabarinum*  
 (Alb. et Schw. ex Fr.) Maubl  
 Shaggy Mane, Shaggy Cap, Lawyer's Wig  
*Coprinus Comatus* (Mull. ex Fr.) S. F. Gray  
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 Glistening Ink Cap  
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*Panaeolus papilionaceus*  
 (Bull. ex Fr.) Quel.  
*Psathyrella candolleana*  
 (Fr. ex Fr.) R. Maire  
*Psathyrella velutina*  
 (Pers. ex S. F. Gray) Sing.  
 Yellow Cow-pat Toadstool  
*Bolbitius vitellinus* (Pers. ex Fr.) Fr.  
*Agrocybe dura*  
 (Bolt. ex Fr.) Sing.  
*Agrocybe praecox*  
 (Pers. ex Fr.) Sing.  
*Stropharia rugosoannulata*  
 Farlow in Merrill  
 Verdigris Agaric  
*Stropharia aeruginosa* (Curt. ex Fr.) Quel.  
*Stropharia albonitens*  
 (Fr.) P. Karst.  
 Brick Red Hypholoma, Bricktop, Bricktop Mushroom  
*Hypholoma sublateritium* (Fr.) Quel.  
 Sulphur Tuft  
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*Hypholoma capnoides*  
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*Psilocybe semilanceata*  
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*Pholiota destruens*  
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*Pholiota squarrosa* (Pers. ex Fr.) Kumm.  
*Pholiota carbonaria*  
 (Fr.) Sing.

*Gymnopilus spectabilis*  
 (Fr.) Sing  
*Gymnopilus sapineus*  
 (Fr.) R. Maire  
*Kuehneromyces mutabilis*  
 (Schaeff. ex Fr.) Sing. et Smith  
*Tubaria conspersa*  
 (Pers. ex Fr.) Fayod  
*Crepidotus variabilis*  
 (Pers. ex Fr.) Kumm.  
*Inocybe patouillardii* Bres

Inocybe fastigiata  
(Schaeff. ex Fr.) Quel.  
Inocybe argillacea  
(Pers. ex Pers.) Sing.  
Inocybe lacera  
(Fr.) Kumm.  
Hebeloma radicosum  
(Bull. ex Fr.) Ricken  
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Yellow Brain Fungus, Witches Butter  
Tremella mesenterica Retz. ex Hook.  
Yellow Chanterelle Pixie Stool  
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25. GLOSSARY OF BASIC MYCOLOGICAL TERMS

## About NIIR

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