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

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### Description

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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Omphalotus Olearius  
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Gomphidius Roseus  
(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  
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Clitocybe cerussata  
(Fr.) Kumm.  
Clitocybe candicans  
(Pers. ex Fr.) Kumm.  
Clitocybe brumalis  
(Fr. ex Fr.) Kumm.  
Lepista nebularis  
(Batsch ex Fr.) Harmaja  
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Lepista nuda (Bull. ex Fr.) W. G. Smith  
Blewitt, Bluetette, Blue Leg  
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(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 Columbetta  
(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  
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(Fr. ex Fr.) Donk  
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(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  
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Oudemansiella radicata (Rehder ex Fr.) Sing.  
Strobilurus Esulentus  
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Little Wheel Toadstool  
Marasmius rotula (Scop. ex Fr.) Fr.  
Marasmius scorodonius (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  
(Lundell) Kotl. et Pouz.  
Livid Entoloma  
Entoloma lividum (Bull. ex St. Amans) Quel.  
Entoloma nidorosum  
(Fr.) Quel.  
Entoloma hirtipes  
(Schum. ex Fr.) Moser  
Volvariella speciosa  
(Fr.) Sing.  
Pluteus cervinus  
(Schaeff. ex Fr.) Kumm.  
Grisette  
Amanita vaginata (Bull. ex Fr.) Vitt  
Amanita umbrinolutea Secr.  
Fly Agaric  
Amanita muscaria (L. ex Fr.) Hook  
Amanita regalis  
(Fr.) Michael  
Caesarâ€™s Mushroom, Imperial Mushroom  
Amanita caesarea (Scop. ex Fr.) Grev.  
Panther Cap  
Amanita pantherina (DC. ex Fr.) Krombh.  
Amanita gemmata  
(Fr.) Gill.  
Death Cap  
Amanita phalloides (Fr.) Link  
Destroying Angel  
Amanita virosa (Fr.) Bertillon

False Death Cap  
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*Amanita porphyrea*  
 (Alb. et Schw. ex Fr.) Schummel  
*Amanita spissa* (Fr.) Opiz  
 Blusher  
*Amanita rubescens* (Pers. ex Fr.) S. F. Gray  
*Agaricus brunnescens* Peck  
 Red-staining Agaric Wood Mushroom  
*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.  
 Yellow Stainer  
*Agaricus xanthoderma* Genev.  
*Lepiota cristata*  
 (Alb. et Schw. ex Fr.) Kumm.  
*Lepiota clypeolaria*  
 (Bull. ex Fr.) Kumm.  
 Parasol Mushroom  
*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  
 Common Ink Cap  
*Coprinus atramentarius* (Bull. ex Fr.) Fr.  
 Glistening Ink Cap  
*Coprinus micaceus* (Bull. ex Fr.) Fr.  
*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 Murrill  
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  
Hypholoma fasciculare (Huds. ex Fr.) Kumm.  
Hypholoma capnoides  
(Fr. ex Fr.) Kumm.  
Psilocybe semilanceata  
(Fr. ex Weinm) Kumm.  
Pholiota destruens  
(Brond) Gill.  
Shaggy Pholiota  
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  
 Jew's Ear, Judas's Ear  
*Hirneola auricula-judae* (Bull. ex St. Amans) Berk.  
 Yellow Brain Fungus, Witches Butter  
*Tremella mesenterica* Retz. ex Hook.  
 Yellow Chanterelle Pixie Stool  
*Cantharellus cibarius* Fr. ex Fr.  
*Cantharellus tubaeformis*  
 Bull. ex Fr.  
 Oyster Fungus, Oyster-cap Fungus, Oyster Mushroom  
*Pleurotus ostreatus* (Jacq. ex Fr.) Kumm.  
*Lentinus Lepideus*  
 (Fr. ex Fr.) Fr.

## 25. GLOSSARY OF BASIC MYCOLOGICAL TERMS

### About Niir

NIIR Project Consultancy Services (NPCS) is a reliable name in the industrial world for offering integrated technical consultancy services. Its various services are: Pre-feasibility study, New Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Preparation of Project Profiles and Pre-Investment and Pre-Feasibility Studies, Market Surveys and Studies, Preparation of Techno-Economic Feasibility Reports, Identification and Selection of Plant and Machinery, Manufacturing Process and/or Equipment required, General Guidance, Technical and Commercial Counseling for setting up new industrial projects and industry. NPCS also publishes various technology books, directories, databases, detailed project reports, market survey reports on various industries and profit making business. Besides being used by manufacturers, industrialists, and entrepreneurs, our publications are also used by Indian and overseas professionals including project engineers, information services bureaus, consultants and consultancy firms as one of the inputs in their research.