

How to Start Mushroom Cultivation, Growing, Processing and Packaging – Food and Agriculture

**(Poisonous Mushroom, Edible Mushroom,
Button Mushroom, Oyster Mushroom,
Straw Mushroom)**

Introduction

Mushroom is a nutritious vegetarian delicacy and has many varieties. Most of them are edible. It contains many vitamins and minerals but very low on sugar and fat. It is easily digestible. It is very popular in most of the developed countries and is being accepted in many developing countries. Market for mushroom is growing rapidly because of its rich nutritional value and special taste aroma, flavor etc. Many exotic preparations are made from them like soup, pickles, it can be cooked in traditional way as standard vegetable. It is also used as stuffing for various food preparations and for garnishing.

Its consumption is basically confined to the urban region. It has a very short life after being harvested and are sold in fresh form. Their shelf life is enhanced by processing and properly packing in good quality polythene or proper canning. This can then be stored and transported for selling in far off markets. The global mushroom market is primarily driven by the increasing demand for the organic products. Mushrooms are highly popular in Asian countries such as China, India, and Japan.

Mushroom cultivation can directly improve livelihoods through economic, nutritional and medicinal contributions. However, it is essential to note that some mushrooms are poisonous and may even be lethal, thus the need for extra caution in identifying those species that can be consumed as food. Mushrooms are a good source of vitamin B, C and D, including niacin, riboflavin, thiamine, and folate, and various minerals including potassium, phosphorus, calcium, magnesium, iron and copper.



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.

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*), actors determining the amount of spawn needed, fungicides for mushroom diseases insecticides for mushroom pets 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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Common Morel

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(Fr.) Th. Fries

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(Pers.) Morg

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(Huds.) ex Pers

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Tode ex Pers

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Pers. ex Pers

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Edible Boletus, Cepe

Boletus edulis Bull. ex Fr.

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(Konr.) Sut.

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Brown Birch Boletus

Krombholziella Scabra (Bull. ex Fr.) R. Maire

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(Batsch ex Fr.) Fr.

Paxillus Atrotomentosus

(Batsch ex Fr.) Fr.

False Chanterelle

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Omphalotus Olearius



(DC. ex Fr.) Sing.
Gomphidius Roseus
(Fr.) P. Karst.
Gomphidius Glutinosus
(Schaeff. ex Fr.) Fr.
Chroogomphus Rutilus
(Schaeff. ex Fr.) O.K. Miller
Ivory Wax Cap
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



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

Wood Blewitt, Bluette, Blue Leg

Lepista nuda (Bull. ex Fr.) W. G. Smith

Blewitt, Bluette, 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 Columbetta

(Fr.) Kumm.

Tricholoma Terreum

(Schaeff. ex Fr.) Kumm.

Honey Fungus, Honey Agaric, Shoestring Mushroom

Armillaria mellea (Vahl. ex Fr.) Kumm.

Lyophyllum connatum
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Lyophyllum fumosum
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Tephrocybe atrata
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St. George Mushroom

Calocybe gambosa (Fr.) Donk

Giant Clitocybe

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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 Platypylla

(Pers. ex Fr.) Kotl. et Pouz.

Slimy Beech Tuft

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Rooting Shank

Oudemansiella radicata (Relhan ex Fr.) Sing.

Strobilurus Esculentus

(Wulf. ex Fr.) Sing.

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

Caesar 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

Amanita citrina (Schaeff) ex Roques

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 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

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(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 Ear, Judas 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

Niir Project Consultancy Services (NPCS)
can provide Startup Book on
Mushroom Cultivation and Processing
(with Dehydration, Preservation and Canning)

See more

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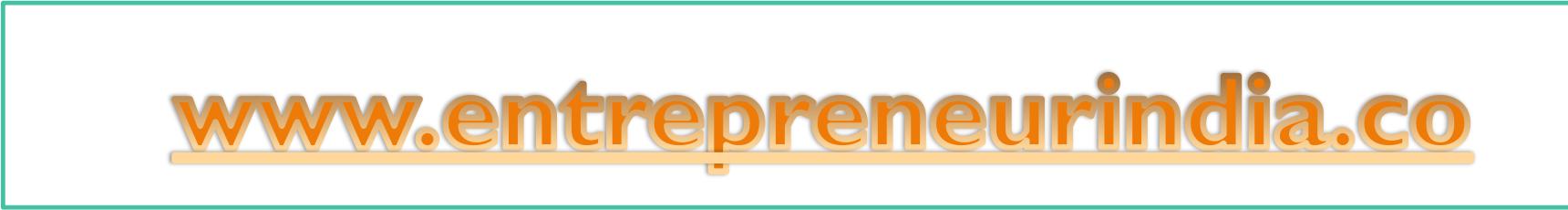
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- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*

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- *We empower our customers with the prerequisite know-how to take sound business decisions*
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- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
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Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

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- *Consultancies*
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- *Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin*
- *Activated Carbon & Activated Charcoal*
- *Aluminium And Aluminium Extrusion Profiles & Sections,*
- *Bio-fertilizers And Biotechnology*
- *Breakfast Snacks And Cereal Food*
- *Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling*

- *Bamboo And Cane Based Projects*
- *Building Materials And Construction Projects*
- *Biodegradable & Bioplastic Based Projects*
- *Chemicals (Organic And Inorganic)*
- *Confectionery, Bakery/Baking And Other Food*
- *Cereal Processing*
- *Coconut And Coconut Based Products*
- *Cold Storage For Fruits & Vegetables*
- *Coal & Coal Byproduct*

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Cont...

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- *Disinfectants, Pesticides, Insecticides, Mosquito Repellents,*
- *Electrical, Electronic And Computer based Projects*
- *Essential Oils, Oils & Fats And Allied*
- *Engineering Goods*
- *Fibre Glass & Float Glass*
- *Fast Moving Consumer Goods*
- *Food, Bakery, Agro Processing*

- *Fruits & Vegetables Processing*
- *Ferro Alloys Based Projects*
- *Fertilizers & Biofertilizers*
- *Ginger & Ginger Based Projects*
- *Herbs And Medicinal Cultivation And Jatropha (Biofuel)*
- *Hotel & Hospitality Projects*
- *Hospital Based Projects*
- *Herbal Based Projects*
- *Inks, Stationery And Export Industries*

Sectors We Cover

Cont...

- *Infrastructure Projects*
- *Jute & Jute Based Products*
- *Leather And Leather Based Projects*
- *Leisure & Entertainment Based Projects*
- *Livestock Farming Of Birds & Animals*
- *Minerals And Minerals*
- *Maize Processing(Wet Milling) & Maize Based Projects*
- *Medical Plastics, Disposables Plastic Syringe, Blood Bags*
- *Organic Farming, Neem Products Etc.*

Sectors We Cover

Cont...

- *Paints, Pigments, Varnish & Lacquer*
- *Paper And Paper Board, Paper Recycling Projects*
- *Printing Inks*
- *Packaging Based Projects*
- *Perfumes, Cosmetics And Flavours*
- *Power Generation Based Projects & Renewable Energy Based Projects*
- *Pharmaceuticals And Drugs*
- *Plantations, Farming And Cultivations*
- *Plastic Film, Plastic Waste And Plastic Compounds*
- *Plastic, PVC, PET, HDPE, LDPE Etc.*

Sectors We Cover

Cont...

- *Potato And Potato Based Projects*
- *Printing And Packaging*
- *Real Estate, Leisure And Hospitality*
- *Rubber And Rubber Products*
- *Soaps And Detergents*
- *Stationary Products*
- *Spices And Snacks Food*
- *Steel & Steel Products*
- *Textile Auxiliary And Chemicals*

Sectors We Cover

Cont...

- *Township & Residential Complex*
- *Textiles And Readymade Garments*
- *Waste Management & Recycling*
- *Wood & Wood Products*
- *Water Industry(Packaged Drinking Water & Mineral Water)*
- *Wire & Cable*

Contact us

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