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), actors determining the amount of spawn needed, fungicides for mushroom diseases insectides 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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Gomphidius Glutinosus
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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
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(Fr.) Kumm.
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(Pers. ex Fr.) Kumm.
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Lepista nebularis
(Batsch ex Fr.) Harmaja
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Blewitt, Bluette, Blue Leg
Lepista saeva (Fr.) P. D. Orton
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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
Tephrocybe atrata
(Fr. ex Fr.) Donk
St. Georgeâ€™s Mushroom
Calocybe gambosa (Fr.) Donk
Giant Clitocybe
Leucopaxillus giganteus (Sibth. ex Fr.) Sing.
Melanoleuca brevipes
(Bull. ex Fr.) Pat.
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(Fr.) Sing.
Wood Woolly-foot
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Russet Shank
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Greasy Tough Shank
Collybia butyracea (Bull. ex Fr.) Quel.
Spotted Tough Shank
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Hohenbuehelia Petaloides
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Slimy Beech Tuft
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Rooting Shank
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Strobilurus Escentus
(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
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
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 xanthodermus Genev.
Lepiota cristata
(Alb. et Schw. ex Fr.) Kumm.
Lepiota clypeolaria
(Bull. ex Fr.) Kumm.
Parasol Mushroom
Macropleioteca procera (Scop ex Fr.) Sing.
Shaggy Parasol
Macropleioteca rhacodes (Vitt.) Sing
Macropleioteca excoriata
(Schaeff. ex Fr.) Acker-Sch.
Cystoderma amianthinum
(Scop. ex Fr.) Maubl
Cystoderma cinnabaratum
(Alb. et Schw. ex Fr.) Maubl
Shaggy Mane, Shaggy Cap, Lawyerâ€™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 candelleana
(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 albinitens
(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
25. GLOSSARY OF BASIC MYCOLOGICAL TERMS

Jewâ€™s Ear, Judasâ€™ 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.

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