

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.

1. NUTRITIVE VALUE OF EDIBLE MUSHROOMS

2. MEDICINAL VALUE OF MUSHROOMS

3. ADVANTAGES OF MUSHROOMS

How to Avoid Discomfort While Eating Mushrooms?

4. POISONOUS MUSHROOMS

Distinctive Features of Poisonous Mushrooms

Symptoms of Mushroom Poisoning

How to Avoid Mushroom Poisoning

5. MORPHOLOGY OF COMMON EDIBLE MUSHROOMS

Agaricus Bisporus

Volvariella Volvacea

Pleurotus Sajor-caju

6. COMMON EDIBLE MUSHROOMS OF INDIA

7. WHERE AND WHEN TO GO MUSHROOMING

8. HOW TO COLLECT AND IDENTIFY FUNGI

Steps in the Description of Macro-and Micro-characteristics of Gill Fungi

(Mode of development)

9. CLASSIFICATION OF FUNGI - A BRIEF SURVEY

Fungi

Ascomycetes

Basidiomycetes

Deuteromycetes-Fungi Imperfecti

10. DELICIOUS RECIPES OF MUSHROOM

Mushroom omelette

Stuffed Potatoes

Mushrooms on Toast

Mushroom Soup

Mushroom Pakoras

Mushroom Pulao

Mushroom Pickle 1

Mushroom pickle 2

Mushrooms and Peas

Mushrooms and Paneer

Mushroom Samosa

Liver with Mushroom

11. CHEMICAL COMPOSITION, ANTI-NUTRITIONAL FACTORS AND SHELF-LIFE OF OYSTER MUSHROOM (PLEUROTUS OSTREATUS)

Material and Methods

Results and Discussion

Conclusion

12. COMPOSITION AND FOOD VALUE OF SCLEROTIUM (OSU) AND EDIBLE MUSHROOM (PLEUROTUS TUBER-REGIUM)

Conclusion

13. OSMOTIC DEHYDRATION CHARACTERISTICS OF BUTTON MUSHROOMS

Materials and Methods

Results and Discussion

14. EFFECT OF MODIFIED ATMOSPHERE PACKAGING ON LOW MOLECULAR WEIGHT CARBOHYDRATES OF OYSTER MUSHROOMS

Materials and Methods

Results and Discussion

15. MUSHROOM CULTIVATION

Advantages of mushroom cultivation
Comparison of nutritive value of mushrooms with other foods
Salient features of mushroom cultivation
Importance of mushroom cultivation for India
Types suitable for cultivation
16. CULTIVATION OF WHITE BUTTON MUSHROOM (AGARICUS BISPORUS)
Temperature
Moisture
Ventilation
Good Spawn
Suitable Growing Space
Compost and Methods of Composting
Nature and Quality of the Basic Material
Organic and Inorganic Supplements
Management of the Compost During Composting
Long Method
Short Method
A Compost Fermentation Method by Means of
Forced Air Circulation
Fermentation Chamber for Compost
Formulation of Compost
Process of Composting and Fermentation
Mechanical composting
Loading the Barrel
Composting Cycle
Spawn and Methods of Spawning
Advantages of Grain Spawn
Disadvantages of Grain Spawn
Methods of Preparation of Grain Spawn
Agaricus bisporus
Volvariella volvacea
Factors Determining the Amount of Spawn Needed
Method of Spawning
Storage of Spawn
Casing
Sterilisation of Casing Soil
Chemical Sterilisation
Time of Casing
Cropping and Harvesting
Diseases
Soft Mildew or Cobweb (*Dactylium dendroides*)
Brown plaster mould (*Papulospora byssina*)
White plaster mould (*Scopulariopsis fumicola*)
Olive green mould (*Chaetomium olivacearum*)
Inky cap (*Coprinus lagopus* and *C. comatus*)
Green Mould (*Trichoderma viride*)
Truffle disease (*Pseudobalsamia microspora*)
Bubble disease (*Mycogone perniciosa*)
Dry Bubble, Brown Spot Disease
(*Verticillium malthousei* or *V. psiallistae*)
Bacterial Blotch (*Pseudomonas tolaassi*)
Virus Diseases
Control

Insect Pests

Sciarids

Phorids

Spring tails

Cecid

Mites

Nematodes

Control

Fungicides for Mushroom Diseases Insecticides for Mushroom Pests

Abnormalities of Mushrooms

Rose comb

Long stalked mushroom

Scaly and cracked mushroom

Open Mushrooms

Stroma

Preservation

Storage in Fresh Conditions

Controlled Atmosphere

Preservation by Gamma Radiation

Freeze Drying

Steeping preservation

Dehydration of Mushrooms

Canning of Mushroom

Do's and Don'ts of Mushroom Growing

Mushroom Farm Design

Construction and Insulation

Peak Heating Chamber/bulk Chamber/tunnel

Initial Consideration/Work Plan

Casing Pasteurization Chamber

Economically Viable Commercial Button Mushroom Unit

Economics

Fixed costs

Variable Costs

Economics of Canned Product

17. CULTIVATION OF AGARICUS BITORQUIS

Harvesting

False truffle (*Diehlomyces microspora*)

Control

Bacterial Blotch and Pests

Control

18. CULTIVATION OF PADDY STRAW MUSHROOM (*VOLVARIELLA* SPP.)

Diseases and Pests

Preservation

Canning

Economics of Production of Paddy Straw Mushroom

19. CULTIVATION OF PLEUROTUS SPP.

Method of Cultivation

Preparation of Spawn

Cultivation

Economics of Pleurotus Cultivation in Hells on a Small Scale

20. CULTIVATION OF STROPHARIA RUGOSO ANNULATA

Cultivation

Layout of Beds

Production and Planting of Spawn

Cropping

Harvesting

21. CULTIVATION OF AURICULARIA SPP. (JEWEL'S EAR)

Laying of logs

Cropping yard

Bag method cultivation

Harvesting

22. CULTIVATION OF FLAMMULINA VELUTIPES

Cultivation

Spawn

Spawning and Cropping

23. CULTIVATION OF PHOLIOTA NAMEKO

Moisture, light and aeration

Japanese Method

Spawn

Inoculation

Laying

Raising

Cropping

Taiwan Method of Cultivation

Construction of plastic mushroom growing houses

Preparation of sawdust medium

Bagging and sterilization of medium

Inoculation and incubation

Fruiting

Cropping

Mori

Ham

Song

Royse

Difference between bag method and log method of cultivation

Important factors

24. TYPES OF MUSHROOMS

Orange Peel Fungus

Aleuria aurantia (Pers. ex Hook.) Fuckel

Otidea Onotica

(Batsch ex S.F. Gray) Fuckel

Sarcosphaera crassa

(Santi ex Steudel) Pouz

Discina Perlata (Fr.) Fr

Lorchel, Turban Fungus

Gyromitra esculenta (Pers. ex Pers.) Fr

Common White Helvella, False Morel

Helvella Crispa (Scop.) ex Fr.

Common Morel

Morchella esculenta Pers. ex St. Amans

Morchella Elata Fr

Early Morel

Verpa bohemica (Krombh.) Schroet

Choiromyces venosus

(Fr.) Th. Fries

Summer Truffle, Common (English) Truffle

Tuber aestivum Vitt
Winter Truffle
Tuber Brumale Vitt
Elaphomyces Granulatus Fr
Common Earth-ball
Scleroderma citrinum Pers
Pisolithus Arrhizus
(Pers.) Rauschert
Astraeus hygrometricus
(Pers.) Morg
Cyathus Striatus
(Huds.) ex Pers
Sphaerobolus Stellatus
Tode ex Pers
Bovista Nigrescens
Pers. ex Pers
Common Puffball
Lycoperdon perlatum Pers. ex Pers
Giant Puffball
Langermannia gigantea (Batsch ex Pers.) Rostk
Geastrum triplex Jungh
Wood Witch, Stinking Polecat, Stinkhorn
Phallus impudicus L. ex Pers
Hysterangium Graveolens Velen
Anthurus archeri
(Berk.) E. Fischer
Blackening Russula
Russula nigricans (Bull. ex Merat) Fr.
Common Yellow Russula
Russula ochroleuca (Pers.) ex Fr.
Cracked Green Russula
Russula Virescens (Schaeff. ex Zanted.) Fr.
Bare-toothed Russula
Russula vesca Fr.
Russula Cyanoxantha
(Schaeff. ex Schw.) Fr.
Grass Green Russula
Russula aeruginea Lindbl. in Fr.
Russula Olivacea
(Schaeff. ex Secr.) Fr.
Russula Mustelina Fr.
Russula Xerampelina
(Schaeff) ex. Fr. (S. Str.)
Russula integra
(L. ex Hook.) Fr.
Russula paludosa Britz
Sickener
Russula emetica (schaeff. ex Fr.) S.F. Gray
Russula sanguinea
(Bull. ex St. Amans) Fr.
Lactarius piperatus
(Fr.) S. F. Gray
Fleecy Milk Cap

Lactarius vellereus (Fr.) Fr.
Woolly Milk Cap
Lactarius torminosus (Schaeff. ex Fr.) S. F. Gray
Saffron Milk Cap
Lactarius deliciosus (L. ex Fr.) S. F. Gray
Lactarius helvus (Fr.) Fr.
Lactarius volemus (Fr.) Fr.
Strobilomyces floccopus
(Vahl ex Fr.) P. Karst.
Porphyrellus pseudoscaber
(Sect.) ex Sing.
Gyroporus castaneus
(Bull. ex Fr.) Quel.
Boletus cavipes
Klotzsch in Fr.
Boletus variegatus
Bow. ex Fr.
Gyrodon lividus
(Bull. ex Fr.) Sacc
Suillus grevillei
(Klotzsch) Singer
Suillus viscidus Fr.
Suillus placidus
(Bonorden) Sing.
Slippery Jack
Suillus luteus (L. ex Fr.) S. F. Gray
Suillus fluryi Huijism
Suillus granulatus
(L. ex Fr.) O. Kuntze
Phylloporus rhodoxanthus
(Schw.) Bres
Xerocomus parasiticus
(Bull. ex Fr.) Quel.
Xerocomus rubellus
(Krombh.) Quel.
Bay Boletus
Xerocomus badius (Fr.) Gilb.
Red-cracked Boletus
Xerocomus chrysenteron (Bull ex St. Amans) Quel
Xerocomus subtomentosus
(L. ex Fr.) Quel.
Xerocomus porosporus Imler
Chalciporus piperatus
(Bull. ex Fr.) Sing
Boletus Lupinus Fr. SS. Romagnesi
Red-stalked Boletus
Boletus erythropus (Fr. ex Fr.) Krombh.
Boletus Luridus
Schaeff. ex Fr.
Devil's Boletus
Boletus satanas Lenz
Boletus Impolitus Fr.
Boletus aereus Bull. ex Fr.

Boletus Aestivalis
(Paulet) ex Fr.
Edible Boletus, Cepe
Boletus edulis Bull. ex Fr.
Bitter Boletus
Tylopilus felleus (Bull. ex Fr.) P. Karst.
Krombholziella Aurantiaca
(Bull. ex St. Amans) R. Maire
Krombholziella Rufescens
(Konr.) Sut.
Krombholziella Oxydabilis (Sing.) Sut.
Brown Birch Boletus
Krombholziella Scabra (Bull. ex Fr.) R. Maire
Paxillus involutus
(Batsch ex Fr.) Fr.
Paxillus Atrotomentosus
(Batsch ex Fr.) Fr.
False Chanterelle
Hygrophopsis aurantiaca (Wulf. ex Fr.) R. Maire
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
(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, 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
(Schum. ex Fr.) Sing
Lyophyllum fumosum
(Pers. ex Fr.) Orton
Tephrocycbe 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 Esculentus
(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
(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 umbrinolutes Sec.

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 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, 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 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
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. NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

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