



Report on Entrepreneur Development in Nutraceuticals Mushroom technology as functional food (Identification, characterization and spawn production)

Botany Department with Skill Development cell

Date of Event : 22-24 September, 2017

Venue : Botany Department

SKILL DEVELOPMENT TRAINING WORKSHOP

ON

Entrepreneur Development in Nutraceuticals Mushroom technology as functional food

(Identification, characterization and spawn production)

22-24 September, 2017

Organized by

Botany Department & Skill Development Cell
GURU GHASIDAS VISHWAVIDYALAYA,
Bilaspur (Chhattisgarh), India.

Background

Mushrooms have become attractive as a functional food and as a source of drugs and nutraceuticals due to their antioxidant, antitumor and antimicrobial properties. Besides their pharmacological features, mushrooms are becoming more important in our diet due to their nutritional value, high protein and low fat / energy contents. The mushroom protein contains all the nine essential amino acids required by humans. In addition to their good protein content, mushrooms are a relatively good source of the other nutrients like phosphorus, iron and vitamins, including thiamine, riboflavin, ascorbic acid, ergosterol, and niacin. They are not only sources of nutrients but also have been reported as therapeutic foods, useful in preventing diseases such as hypertension, diabetes, hypercholesterolemia and cancer. Due to the presence of biologically active compounds of medicinal value they are used as anticancer, antiviral, hepatoprotective and immune-potentiating agents. This is an intensive 3 day program strategically designed to provide participants with a comprehensive overview of core start-up carrier issues related to the sciences and nutraceutical mushroom industries as the development of functional food. If the students have ever dreamed of creating own carrier in nutraceutical mushroom industries that program may be useful for that students.

Objectives of the Workshop

1. To understand the nature of mushroom and their nutraceuticals activity to find out the appropriate and scientific solution for the same.
2. To develop entrepreneurship in nutraceuticals Industry to grow faster and gain more recognition worldwide.
3. It will also help candidates to master the art of for the production of spawn (seed of mushroom) and understanding the characteristic feature of mushroom through field visit.

Organizing Committee

CHIEF PATRON

Prof. Anjila Gupta, Honorable, Vice Chancellor,
Guru Ghasidas Vishwavidyalaya, Bilaspur.

PATRON

Prof. BN Tewari, Registrar
Guru Ghasidas Vishwavidyalaya, Bilaspur

Dean, School of Life Science
Guru Ghasidas Vishwavidyalaya, Bilaspur.

Head, Department of Botany
Guru Ghasidas Vishwavidyalaya, Bilaspur.

CONVENOR & COURSE CO-ORDINATOR

Dr. Sushil K Shahi, Department of Botany,
Guru Ghasidas Vishwavidyalaya, Bilaspur.

Registration fee: 400/- from each participant
Target group: UG/PG students, Research Scholars, young researchers
Number of participants: 50-60 (first cum first basis).

Tentative Program schedules

22/09/2017	
09:00 - 10:00	Registration of participants
10:00 AM-12:00 AM	Inauguration session
12:00 AM-01:00 PM	Tea Break
01:00 PM-02:30 PM	Technical session I
02:30 PM-03:00 PM	Lunch Break
03:00 PM-05:30 PM	Practical session I
23/09/2017	
10:00 PM-04:00 PM	Proposed visit to mushroom cultivation sites, Bilaspur or Raipur and spawn production technology
24/09/2017	
10:00 AM-12:00 PM	Technical session II
12:00 PM-02:00 PM	Practical session II
03 PM-04 PM	Valedictory function



Details of Event Proceedings

Date (DD-MM-YYYY)	Details of the Session	Details of Resource Person	Number of Participants
22-09-2017	Basic ideas for the identification of different mushroom species	Prof. RV Shukla, CMD College, Bilaspur	98
22-09-2017	Identification and properties of Mushroom	Practical Session by Prof. RV Shukla, CMD College, Bilaspur	98
22-09-2017	Cultivation and different diseases of mushroom and their control methods	Dr. RKS Tewari Plant Pathology T.C.B. College of Agriculture and Research Station, Bilaspur	98
23-09-2017	Students learn spawn preparation for the cultivation of mushroom She also provided the information on different product development form the mushroom and use as ready to eat without process	Field Visit by Mrs. Namreta Yadu Mushroom Farm, Raipur	98
24-09-2017	Information on patent, mushroom technology and IPR, and their technical problem with motivation towards self-reliance	Dr.SK Shahi Botany Department GGV, Bilaspur	98
24-09-2017	The information regarding the mushroom-based industry, their development, maintenance, and application in various mushroom species of economic relevance, as well as the scope of it's as a mushroom product development.	Prof. MP Thakur, Dean Faculty Indira Gandhi Krishi Vishwavidyalaya Krishak Nagar, Raipur, Chhattisgarh 492012	98



A Brief Abstract of the Event (Maximum 500 Words):

The purpose of the workshop was to provide the practical knowledge on identification and cultivation of edible and medical mushrooms for the students to successful entrepreneur in the field of mushroom technology. The Outcome Mapping workshop took place over three (3) days from 22/9/2017 to 24/9/2017. Some sessions within the workshop were held at Chhattisgarh mushroom farm in Raipur for the participants to understand the techniques formulation, packaging process and other related details for the setup of small scale industry and go for their own enterprises and sustain toward their self-employment. On the very first day a small mushroom exhibition was organized on some edible as well as medicinal mushroom mostly from Chhattisgarh region with their high demand in mushroom industry for participants. On the first technical session the lecture was delivered by Prof. RV Shukla, he presented the basic ideas for the identification of different mushroom species. On the same day another lecture was delivered by Dr. RKS Tewari on the cultivation and different diseases of mushroom and their control methods. On the second day, at Mrs. Namreta Yadu farm students learn spawn preparation for the cultivation of mushroom. Students had also purchased various mushroom products cultivation of mushroom and their products. She also provided the information on different product development form the mushroom and use as ready to eat without process. During this visit Dr. Ramesh Shukla give information about the new species and the problem face by CG mushroom potential and need for awareness in this field in CG. On the last day, Dr.SK Shahi provided the information on patent, mushroom technology and IPR, and their technical problem with motivation towards self reliance how you can patent your skill in this field. The information regarding the mushroom-based industry, their development, maintenance, and application in various mushroom species of economic relevance, as well as the scope of it's as a mushroom product development, was provided in another lecture by Prof. MP Thakur. During all the sessions, participants from different departments of school of life sciences got current knowledge about the use and production of various mushroom as nutraceuticals. Meanwhile, they stressed that this kind of workshop needs to be continued in the future too. Additionally, the workshop also generated a lot of good and useful ideas in our quest to understand the issues, gaps and actions which need to be clearly understood if we are to achieve make our students self-dependent.



Inaugural Function of the workshop on 22 September 2017



Top left: lecturer delivers by Prof. RV Shukla on 22 September 2017

Top Right: Practical session by Prof. RV Shukla on 22 September 2017

Bottom left: lecturer delivers by Dr. SK Shahi on 24 September 2017

Bottom Right: lecturer delivers by Prof. MP Thakur on 24 September 2017.