



National Web Conference - Mushroom 2021 Mushroom Biology: Opportunities and Challenges

MSI and ICAR-DMR Solan

15-17 April, 2021

15.04.2021	Day-1	
09.30-09.40 am	Welcome and about the Conference	Dr. VP Sharma Director
09.40-09.45 am	Inauguration Virtual Deep Prajawalan ICAR Song	Dr. A.K. Singh DDG (HS), ICAR
09.45-10.05 am	Theme lecture	Dr. Manjit Singh Ex-Director, ICAR-DMR, Solan
10.05-10.20 am	Comments by Guest of Honour	Dr. Vikramaditya Pandey ADG (HS-I), ICAR
10.20-10.35 am	Comments by Guest of Honour	Dr. BK Pandey ADG (HS-II), ICAR
10.35-11.00 am	Address by Chief Guest	Dr. AK Singh DDG (HS), ICAR
11.00 am	Vote of Thanks	Dr. Shwet Kamal PS, ICAR-DMR, Solan
11.00-11.30 am	Tea Break	
11.30-13.15	Session-I: Germplasm diversity Chairman: Dr. N.S. Atri Co-Chairman: Dr. Y.P. Sharma	Rapporteur Dr. Babita Thakur
11:30-11:50	Keynote Diversity of lamellate mushrooms in sal forest of Shiwaliks and impact of <i>in vitro</i> synthesis of sal ectomycorrhiza under field conditions	NS Atri and Jitender Kumar
11:50-12:10	Keynote Diversity of Mushrooms in Mizoram, Northeast India	Bhim Pratap Singh
12:10-12:20	Oral-I Diversity and distribution of macrofungi of Himachal Pradesh	VP Sharma, Babita Kumari , Anupam Barh and Shwet Kamal
12:20-12:30	Oral-II Collection, identification and conservation of wild edible mushrooms from Mizoram	Sunil Kumar Sunani , Vishambhar Dayal, Jeetendra Kumar Soni, Ingudum Shakuntala
12:30-12:40	Oral-III Fungi with medicinal potential: Exploration, identification and aspects	Sanjeev Kumar Sanyal & Ritu Devi
12:40-12:50	Oral-IV Wild medicinal mushrooms used among the Tribes in Kerala	NM Krishnakumar
12:50-13:00	Oral-V Wild Oyster Mushrooms of Konkan	Balkrushna Kamat , Pramod Borkar, Shrikant Rite, Sruthi Balan and J.J. Kadam
13:00-13:10	RF-1 Morphological and microscopic characterization of wild Edible mushrooms in Jammu region	Jitender Sharma and Sachin Gupta
	RF-2 Study of wild mushroom community from the Districts of Amritsar and Gurdaspur (Punjab) and some biological aspects	Rajesh Kumar, Shivnam Rana, Ravneet Kaur, Sukhpal Singh Kang, HS Sodhi and Prem Pal Johl
	RF-3 Wild edible mushrooms of North East India and their post-harvest consumption patterns	Tabalique Yumkhaibam, Susheel Kumar Sharma, Y. Prabhabati Devi, S. S. Roy
13.10-13.15	Comments and closing remarks	
13.15-14.00	Lunch	
14.00-16.05	Session-II: Biochemistry and Nutrition Chairman- Dr. A.S. Krishnamoorthy Co-Chairman- Dr. BL Attri	Rapporteur Dr. Anuradha Srivastava
14:00-14:20	Keynote Harnessing Mycomolecules of Macrofungi: Lessons and Retreats	AS Krishnamoorthy



14:20-14:40	Keynote	Insights on the lignolytic machinery of mushroom fungi for bioconversions and industrial applications	G.Thiribhuvanamala
14:40-14:50	Oral-I	Study of browning associated enzymes at different stages of cultivation in button mushroom, <i>Agaricus bisporus</i> (Lange) sing.	Ravneet Kaur and H S Sodhi
14:50-15:00	Oral-II	Exploration of the antimicrobial activity of mushrooms against <i>Colletotrichum capsici</i> causing Chilli Anthracnose disease	K.Priya, G.Thiribhuvanamala , A.Kamalakaran, S.Haripriya, ASKrishnamoorthy, C.Sangeetha and K.Angappan
15:00-15:10	Oral-III	Profiling of vitamins in some edible mushroom species	Yogachitra S , Eyini M, Kannan ND
15:10-15:20	Oral-IV	<i>Ganoderma lucidum</i> derived antimicrobial biomolecules against mango anthracnose pathogen (<i>Colletotrichum gloeosporioides</i> (Penz.) Sacc.)	Gayathri M , Thiribhuvanamala G, Krishnamoorthy A.S, Angappan K and Haripriya S
15:20-15:30	Oral-V	Antifungal volatiles of Macrobasidiomycetes against <i>Fusarium oxysporum</i> f.sp. <i>lycopersici</i>	Praveen,T. , Krishnamoorthy, A.S., Nakkeeran, S., Sivakumar, U, Amirtham, D and Haripriya, S.
15:30-15:40	Oral-VI	Effect of Selenium on mycelial growth, ultra-structure, accumulation ability and protein synthesis in selected <i>Pleurotus</i> species	Gagandeep Kaur , Anu Kalia and HS Sodhi
15:40-15:50	Oral-VII	Potential of crude oxidative and hydrolytic enzymes from <i>Calocybe indica</i> in bleaching of paddy straw pulp	Manmeet Kaur , Shivani Sharma, HS Sodhi
15:50-16:00	RF-1	Mushroom as a mechanism to mitigate, malnutrition, unemployment and poverty	Anjum Varshney and Ajay singh
	RF-2	Nutritional and Medicinal value of Mushrooms-An Overview	S.Maqbool Ahmed
	RF-3	Selenium bio-accessibility and associated nutraceutical properties in <i>Pleurotus djamor</i> and <i>P. cornucopiae</i> cultivated on Se-hyperaccumulated wheat straw	AnduriSravani, Shivani Sharma and Anu Kalia
	RF-4	Effect of Temperature, pH, media, C and N sources on mycelia growth of <i>Pleurotus djamor</i>	Gopal Chowdhury and Rishu Sharma
	RF-5	Evaluation of wood residues for mass production of <i>Pycnoporus sanguineus</i> for extraction and utilization of Cinnabarin in textile dyeing	G.Thiribhuvanamala, K.Kumaran, P.Radha, S.Vennila and ASKrishnamoorthy
16.00-16.05	Comments and closing remarks		
16.04.2021	Day-2		
09.00-11.00	Session-III: Molecular biology Genetics & Breeding Chairman- Dr Manjit Singh Co-Chairman: Dr. H.S. Sodhi, Dr. M.C. Yadav, Dr. Shwet Kamal		Rapporteur Dr. Anupam Barh
09:00-09:20	Keynote	What makes breeding difficult in <i>Agaricus</i> strain improvement?	HS Sodhi
09:20-09:40	Keynote	Genetics and breeding of white button mushroom (<i>Agaricus bisporus</i>): Status and Opportunities	Shwet Kamal and Manjit Singh
09:40-09:50	Oral-I	Development and characterization of hybrid in <i>Pleurotus ostreatus</i> var Florida for early basidiocarp trait	Anupam Barh , Shwet Kamal, VP Sharma, Manoj Nath and Kanika Sharma
09:50-10:00	Oral-II	Increasing the yield attributing character of different species of <i>Pleurotus</i> through hybridization	KarishmiRiba and D.K. Sarmah
10:00-10:10	Oral-III	Molecular characterization of shiitake (<i>Lentinula edodes</i>) germplasm and development of cultivation technology using locally available substrates under North East Indian conditions	Susheel Kumar Sharma , Shweta Singh, Anupam Barh, Sudheer Kumar. Annepu, Tabalique Yumkhaibam, S.S. Roy, Th. Surjit Singh, Shwet Kamal, K.K. Mishra and VP Sharma
10:10-10:20	Oral-IV	Enhancement in proximate constituent of species of <i>Pleurotus</i> by interspecific hybridization and gamma irradiation	K R Jyothi and Susha S Thara



10:20-10:30	Oral-V	The genetic linkage map of <i>Agaricusbisporus</i>	Anupam Barh, Rakesh Kumar Bairwa, Mamta Gupta, Shwet Kamal and VP Sharma
10:30-10:40	Oral-VI	Studies on evaluation of various strains of Button Mushroom in Haryana	Ajay Singh , Vikash Kumar, Vishal Gandhi& Neha Sharma
10:40-10:50	RF-1	Breeding of a non-browning hybrid of button mushroom (<i>Agaricus bisporus</i>)	Manjit Singh and Shwet Kamal
	RF-2	Genome engineering in mushroom using CRISPR/Cas system	V. Edwin Hillary and S. Antony Ceasar
	RF-3	Genomic DNA extraction from fungal mycelium using whatman filter paper	Kanika Sharma, Anupam Barh and V P Shrama
	RF-4	Yield characteristics and nutrient use efficiency of UV-mutant strains of <i>Pleurotus</i> species	Selvarani, R and M. Eyini
10.50-11.00	Comments and closing remarks		
11.00-11.30	Tea Break		
11.30-14.00	Session-IVA: Crop Production/ Protection Chairman- Dr. V.P. Sharma Co-Chairman: Dr. Ajay Yadav		Rapporteur Dr. Anil Kumar
11:30-11:50	Keynote	Status of Mushroom production and protection in India	VP Sharma
11:50-12:10	Keynote	Advances in composting technologies for button mushroom	B Vijay
12:10-12:20	Oral-I	Cultivation and molecular characterization of eight strains of <i>Hericium erinaceus</i>	Satish Kumar, VP Sharma, Shweta Sharma
12:20-12:30	Oral-II	Effect of supplementation on the production of different species of <i>Pleurotus</i> under subtropical zone of Himachal Pradesh	Annu Sharma , R.S. Jarial, Kumud Jarial and Savita Jandaik
12:30-12:40	Oral-III	Standardization of production technology of Split Gill Mushroom (<i>Schizophyllum commune</i>)	Varsha Kerketta , C.S. Shukla, H.K. Singh, Sandeep Kumar Pani
12:40-12:50	Oral-IV	Cultivation of <i>Macrocybe gigantea</i> and estimation of antioxidant activity	K.K. Mishra , P.K. Mishra and Ramesh Singh Pal
12:50-13:00	Oral-V	Cultural characterization of a potential native isolate of milky mushroom (<i>Calocybe indica</i>)	Heera.G. , Suharban,M. and Geetha, D.
13:00-13:10	Oral-VI	Studies on effect of different spent mushroom substrate in integration with other nutrient sources on physiochemical and biological properties of soil	Shivender Thakur , Kuldeep Thakur and Vinay Verma
13:10-13:20	Oral-VII	Studies on cultivation, antioxidant and antimicrobial properties of Lion's mane mushroom (<i>Hericium erinaceus</i>)	Diksha Thakur and Dharmesh Gupta
13:20-14.00	RF-1	Innovative Mushroom Production Technology for Rural Households	B. Ramesh
	RF-2	Performance of Oyster mushroom (<i>Pleurotusflorida</i>) on different agricultural wastesubstrates	Resmi, A. R., Jayapal, A., Lovely, B., Anila, S., Athira, A., Greeshma R. S., Ruma, S. and Megha G. K.
	RF-3	Effect of growing media containing agricultural by-products on growth and yield of chrysanthemum cv. Basanti	Shilpa Shree KG, K V Prasad, P Naveen Kumar, Tarak Nath Saha, Girish KS and Safeena, SA
	RF-4	Evaluation of different sawdust substrates for spawn production of shiitake mushroom	Tarushi, Deepika Sud and Arun Sud
	RF-5	Effect of different casing sterilization methods on productivity of mushroom	Dharmesh Gupta and Savita Jandaik
	RF-6	Organic cultivation of blue oyster on agro-industrial waste	Nivedita Singh and Savita Jandaik
	RF-7	Evaluation of agroforestry substrates for yield performance of <i>Auricularia polytricha</i>	Surya Prakash, Savita Jandaik, Satish Kumar and Nivedita Singh
	RF-8	Cultivation Study on <i>Lentinus sajor-caju</i> (Fr.) Fr.	Lata and NS Atri
	RF-9	Effect of Phyto-Extracts on growth and yield of Oyster Mushroom	N.V. Kokate and A.C. Jadhav
	RF-10	Use of natural bioagents in casing mixture for yield improvement of <i>Agaricus bisporus</i>	Gagandeep K. Sidhu, Neelam Joshi and Shivani Sharma
	RF-11	Evaluation of different <i>Pleurotus</i> strains in Meghalaya	Pankaj Baiswarand Bappa Karmakar
	RF-12	Optimization of mycelial growth parameters for <i>Hericium</i>	Stanzin Diskit, Sachin Gupta and



		<i>erinaceus</i>	Renu Devi
RF-13		Influence of substrates on yield and yield Attributing parameters of <i>Pleurotus pulmonarius</i> in the Eastern-Ghat High Land zone of Odisha	Shubhasri Sahoo and Kailash Behari Mohapatra
RF-14		Evaluation of different locally available substrates for the production of four different strains of <i>Volvariella volvacea</i>	Shivani Sharma, RS Jarial, Kumud Jarial and Anil Rao
RF-15		Evaluation of the suitability of <i>Pleurotus citrinopileatus</i> for cultivation in Kerala	Akhil G. L. and Susha S. Thara
RF-16		Banana pseudo-stem as substrate for the cultivation of <i>Pleurotus florida</i>	N. Kiran Kumar, K. Viswanath, C. Sangeetha, A.S. Krishnamoorthy
RF-17		Spawn production of shiitake (<i>Lentinula edodes</i>) on various grain substrates	Inkresh Kumar Verma, Priya Singh and Dayaram
RF-18		<i>In vitro</i> evaluation of medicinal mushroom shiitake for optimum growth conditions	Inkresh Kumar Verma, Priya Singh and Dayaram
RF-19		Impact of spent mushroom substrate on yield and collar rot of bottle gourd	Rakesh Kumar Chugh, Satish Kumar and Kishore Chand
RF-20		Influence of Culture Media on Mycelial Growth of Monkey Head Mushroom	Jawala Singh, Narender Kumar, Rakesh Kumar Chugh and Jagdeep Singh
RF-21		Efficiency of utilizing innovative medium for growing the oyster mushroom in household	P. Latha,G. Thiribhuvanamala and A.S. Krishnamoorthy
RF-22		Evaluation of strains and potential substrates forcultivation of <i>Hericium erinaceus</i>	Renu Devi, Sachin Gupta and Stanzin Diskit
RF-23		Cultivation of oyster mushroom using different typesof substrates	Apurva Auzekar, Swati Kalode,and Lalchand P. Dalal
RF-24		Design and performance evaluation of outdoor mobilemushroom growing chamber	Chandrashekara C. Meera Pandey and G. SenthilKumaran
RF-25		Studies on variability of different isolates of milky mushroom (<i>Calocybe indica</i>)	Sandeep Kumar Pani, H.K. Singh, C.S. Shukla, Varsha Kerketta
RF-26		Effect of spawn substrates on productivity of paddy straw mushroom (<i>Volvariella volvacea</i>)	A.K.Sahoo, N. Chinara and K.B.Mohapatra
RF-27		Evaluation of organic supplements for production of oyster mushroom (<i>Pleurotus ostreatus</i>)	Monalisa Sahu, Niranjana Chinaraand Mihir Kumar Mishra
RF-27		Effect of different inorganic additives on <i>Calocybe indica</i>	Popin Kumar, Gopal Singh, Ravindra Kumar and Umara Rahmani
RF-28		Cultivation of oyster mushroom (<i>Pleurotus sajor-caju</i>) in North Gujarat condition.	Manisha S. Shinde and Ronak Thakkar
14.00-14.30 Lunch			
14.30-17.00	Session-IVB: Crop Production/ Protection Chairman- Dr. R.P. Singh Co-Chairman: Dr. Satish Kumar		Rapporteur Dr. Anil Kumar
14:30-14:50	Keynote	Industrial production of button mushroom	RP Singh
14:50-15:10	Keynote	My experiences on Oyster and Milky mushroom	RP Tiwari
15:10-15:20	Oral-I	Bird's Nest Fungi: A Cradle of Potentiality	Aparna R. S., VijethS., Heera G. , Deepa Rani,C. V. and Joy Michal Johnson
15:20-15:30	Oral-II	Development of Cultivation technology of <i>Grifola frondosa</i> (Maitake) Mushroom	Satish Kumar, VP Sharma, Anil Kumar, Shweta Sharma and Karuna Shrivastava
15:30-15:40	Oral-III	Diagnosis and Management of Wet Bubble Disease (<i>Mycogone pernicioso</i>) of White Button Mushroom	Anil Kumar , VP Sharma, Satish Kumar and Shwet Kamal
15:40-15:50	Oral-IV	Factors promoting biotic and abiotic stresses on mushrooms	Satish Kumar,VP Sharma and Anil Kumar
15:50-16:00	Oral-V	Studies on effect of phyto-extracts for control of <i>Trichoderma</i> mould in oyster mushroom cultivation	N.V. Kokate and A.C. Jadhav
16:00-16:10	Oral-VI	Inoculum Production of Arbuscular Mycorrhizal Fungi on Spent Mushroom Substrate	Rakesh Kumar Chugh and Satish Kumar
16:10-16:20	Oral-VII	Physiological variability in <i>Verticillium fungicola</i> isolates	Jagdeep Singh, Man Mohan, Mamta,



		collected from different mushroom farm of Haryana state	Surjeet Singh and H.S. Saharan
16:20-16:45	RF-1	Eco-friendly pest management in mushroom production	N. Chiranjeevi, P. Lalitha Kameswari, S. Adarsha, K.C. Bhanu Murthy and P. Raja Sekhar
	RF-2	Evaluation of Three-botanical insecticides in compost for button mushroom cultivation	Simran, Shivani Sharma and HS Sodhi
	RF-3	Estimation of Residue of Carbendazim In Harvested Mushroom Fruiting Bodies Form The Treated Substrate In <i>Pleurotus</i> Spp. (<i>Pleurotus sajor-caju</i> , <i>Pleurotus sapidus</i> and commercial hybrid)	Lunisha Pegu and D. K. Sarmah
	RF-4	<i>In vitro</i> antinemic activity of macrobasidiomycetes against root-knot nematode, <i>Meloidogyne incognita</i>	Akshaya, SB Jeeva, SKrishnamoorthy, AS Nakkeeran SARumuka Pravin, and Thiribhuvanamala, G
	RF-5	Effect of different insecticides on edible fungi and sciarid fly larvae (<i>Bradysia</i> spp)	Satish Kumar, VP Sharma and Anil Kumar
	RF-6	Screening of different species of oyster mushroom against Sciarid fly (<i>Bradysia</i> spp)	Satish Kumar, VP Sharma and Anil Kumar
	RF-7	Morphological variability in <i>Verticillium fungicola</i> isolates collected from different mushroom farm of Haryana state	Jagdeep Singh, Man Mohan, Mamta, Surjeet Singh and H.S. Saharan
	RF-8	Standardization of cultivation technology for split-gill mushroom (<i>Schizophyllum commune</i> (mushroom using wheat straw	Anil Kumar, VP Sharma, Satish Kumar and BL Attri
	RF-9	Technique for preparation of paddy and wheat straw compost for cultivation of <i>Agaricus bisporus</i>	Anil Kumar, VP Sharma, Satish Kumar and BL Attri
16.45-17.00	Comments and closing remarks		
17.04.2021	Day-3		
09.00-10.45	Session-V: Post harvest, quality control and value addition Chairman- Dr. R.P. Tewari Co-Chairman: Dr Meera Pandey		Rapporteur Dr. Anuraddha Sriavstava
09:00-09:20	Keynote	Post-harvest processing of mushroom: Way to extend shelf life of mushrooms	MP Thakur
09:20-09:40	Keynote	Mushrooms as source of nutrition and a compatible candidate for designer foods	Meera Pandey
09:40-09:50	Oral-I	Methods for preservation of wild edible mushroom <i>Astraeus hygrometricus</i> pers. Morgan	Pankaj Singh and VK Varshney
09:50-10:00	Oral-II	An image processing based tool for measuring the chromatic properties of button mushrooms	Anarase Dattatray Arjun , Subir Kumar Chakraborty, Naveen Kumar Mahanti and Nachiket Kotwaliwale
10:00-10:10	Oral-III	Fabrication of bioblocks from agricultural waste using fungal mycelium for renewable and sustainable applications	Mukesh Kumar Meher
10:10-10:20	Oral-IV	Effect of different packaging material on the shelf life of button and oyster mushrooms during storage	BL Attri and Anuradha Srivastava
10:20-10:30	Oral-V	Development of mushroom-tomato-mixed-spread	Anuradha Srivastava , BL Attri and VP Sharma
10:30-10:35	Oral-VI	Shelf life evaluation of packaging materials for value added <i>Agaricus bisporus</i> (Lange) Sing. mushroom paste	Shivani Sharma , Jaspreet Kaur and Shammi Kapoor
09:00-09:20	RF-I	Processed Products of Oyster Mushroom and its Marketing for Self Employment and Income Generation of Women SHGs of Distt. Raipur in Chhattisgarh State	Shwati Pardhi, Goutam Roy and HK Singh
10.35-10.45	Comments and closing remarks		
10.45-11.00	Tea Break		
11.00-13.05	Session-VI: Medicinal and mycorrhizal mushroom Chairman- Dr TN Lakhanpal Co-Chairman: Dr. KK Janardanan		Rapporteur Dr. Manoj Nath
11:00-11:20	Keynote	Cultivation aspects of mycorrhizal mushrooms	Dr TN Lakhanpal
11:20-11:40	Keynote	Medicinal mushrooms from folklore to therapeutic uses	DrKK Janardanan



11:40-11:50	Oral-I	Status of Research and Developments in True truffles (genus <i>Tuber</i> spp)	Shwet Kamal and Anupam Barh
11:50-12:00	Oral-II	Functionalization with biomolecules derived from Oyster mushroom (<i>Pleurotus florida</i>) diminished the antibacterial potential of the mycogenic metal oxide nanoparticles	Shivnam Rana , Shivani Sharma, Anu Kalia and Shammi Kapoor
12:00-12:10	Oral-III	Evaluation of <i>in-vitro</i> toxicity among two strains of <i>Lentinula edodes</i>	Sujata Makkar ., Kiran Nehraand Ajay Singh
12:10-12:20	Oral-IV	Nano emulsion of antifungal metabolites from medicinal mushroom <i>Ophiocordyceps sinensis</i> for the management of post-harvest anthracnose disease of banana	Arumuka Pravin. I , Akshaya. S.B, Nakkeeran. S, Thirubhuvanamala. G and Krishnamoorthy, A.S
12:20-12:30	Oral-V	Performance evaluation of the antitumor potential of mycoactive compounds of wild mushrooms of Alagarhills, Tamilnadu as immunomodulators in cancer therapy	S.Sivadurga , M.Eyini and J.Rajendran
12:30-12:40	Oral-VI	Synergistic antibacterial activity of Green tea (<i>Camellia sinensis</i>) with Medicinal Mushrooms Extracts (<i>Lentinus edodes</i> , <i>Ganoderma lucidium</i> and <i>Irpex lacteus</i>)	Isha Sharma, Monika Thakur, Anajna , Astha Tripathi
12:40-12:50	Oral-VII	Extraction of cordycepin-3) deoxy adenosine) from the caterpillar mushroom fungi from Kerala	Susha S. Thara , Binitha NK, MubarakOP and Aashitha Joy
12:50-13:00	RF-1	Cultivation of golden mushroom <i>Cordyceps militaris</i> using various substrates and its industrial application	Bhumi Rajyaguru
	RF-2	<i>Cordyceps militaris</i> : A true saluterous mushroom with remedial potential - a review	Satish Kumar, Kirti Kaundal, Shweta Sharma, Vrushali Deshmukh and VP Sharma
	RF-3	Anti-cancer properties of mushroom	Umara Rahmani and Gopal Singh
	RF-4	Nutritional and medicinal properties of shiitake mushroom (<i>Lentinula edodes</i>)	Gopal Singh, Umara Rahmani and Popin Kumar
	RF-5	Quality analysis of artificially induced fruit bodies of indigenous strain of <i>Cordyceps militaris</i> from India	Satish Kumar, VP Sharma, Anil Kumarand, Karuna Shrivastava
	RF-6	An overview on nutritional and medicinal value of mushroom	Rajneesh Thakur, Dharmesh Gupta, Savita Jandaik
	RF-7	Antiviral effect of <i>Ganoderma lucidum</i> against groundnutbud necrosis virus in tomato	B. Sangeetha, ASKrishnamoorthy, P. Renukadevi, V.G. Malathi, D. JeyaSundaraSharmila, D. Amirtham
13.00-13.05	Comments and closing remarks		
13.05-13.30	Lunch		
13.30-15.45	Session-VII: Policy/Extension research and farmer initiatives Chairman- Dr Manjit Singh Panelists- Dr. MP Thakur, Dr. Mahantesh Shirur, Mr. Manmohan Malik, Mr. Ramdas Shinde, Mr. Naveen Patwal		Rapporteur Dr. Sudheer Kumar Annepu
13:30-13:50	Keynote	About GAP, Policy research, participatory research, future needs and so on	Manjit Singh
13:50-14:10	Keynote	Leveraging agriculture policies to promote mushroom entrepreneurship	Mahantesh Shirur
14:10-14:30	Oral-I	How to promote mushroom cultivation in India through government machinery	Ajay Singh
14:30-14:40	Oral-II	Growth of Mushroom Industry in India and China	Sudheer Kumar Annepu
14:40-14:50	Oral-III	ICT applications in mushroom cultivation, awareness generation and benefits of its Digital Marketing	Yogesh Gautam
14:50-15:00	Oral-IV	Mushroom cultivation at Dayalbagh, Agra as promising enterprise during COVID-19	Arun P. Chopra , Amla Chopra, K. Usha
15:00-15:10	Oral-V	Inculcating the entrepreneurial spirit by Incubating Mushroom Entrepreneurs, FPOs and Women SHGs across Chhattisgarh: Institutional backstopping by IGKV	Harvinder Kumar Singh , N. Lakpale, C S Shukla, A.S. Kotasthane and M PThakur
15:10-15:20	Oral-VI	Skill development of serving soldiers and rural youth for self-employment by mushroom cultivation technology: An initiative of Mushroom Research and Training centre of SKUAST –Jammu	Sachin Gupta , Jagdish KumarArora andRakesh Kumar



15:20-15:30	Oral-VII	Employment and empowerment through vocational trainings on mushroom cultivation during COVID-19 pandemic	Narender Singh and Poonam Yadav
15:30-15:40	Oral-VIII	A study of mushroom consumption and purchasing behaviour in Solan town of Himachal Pradesh, India	Bhavya Sharma and Nisha Kumari
15:40-15:50	RF-1	Automated mushroom spawn production in foot hills of Arunachal Pradesh	RC Shakywar
	RF-2	Changing face of Mushroom Cultivation Training at ICAR-Directorate of Mushroom Research Solan	Yogesh Gautam
	RF-3	Economic empowerment of rural youth through mushroom production	Narender Kumar
	RF-4	Mushroom Cultivation Initiation by a Farmer	Namrata Yadu
15.50-16.00		Comments by Panellists	
16.00-16.10		Interactions, feedback and sum up by chair	
		Yadvindra Young Scientist Award	
16:10-16:25	Oral-I	Biological Insights from Forest Mushrooms of Chhattisgarh with special reference to <i>Termitomyces-Termitarium-carpus</i>	Pradeep Kumar Badhai , Harvinder Kumar Singhand CSShukla
16:25-16:40	Oral-II	Selenium accumulation and antioxidant activity in <i>Pleurotus florida</i> and <i>P.djamor</i> cultivated on Se-hyperaccumulated wheat straw	Anduri Sravani , Shivani Sharmaand Anu Kalia
16:40-16:55	Oral-III	Studies on standardization of production technology of Lion's Mane Mushroom (<i>Hericium erinaceus</i>) in Chhattisgarh	Veer Singh , CS Shukla, HK Singh
16:55-17:10	Oral-IV	Morphological and molecular characterization of three new aphylophoroid macrofungal records from India	Uzma Altaf and Yash Pal Sharma
17:10-17:25	Oral-V	Development and characterization of sporeless strain in <i>Pleurotus ostreatus</i>	Anupam Barh , Shwet Kamal, VP Sharma, Manoj Nath, Babita Kumari and Kanika Sharma
17.25-17.40	Oral-VI	Morphological, molecular identification and testing their antimicrobial activity of <i>Ophiocordyceps neovolkiana</i> against wilt pathogens	Sangeetha C. , ASKrishnamoorthy, G.Thiribhuvanamala and S. Nakkeeran
17.40-18.00	Plenary Session	Chairman: Dr. AK Singh, DDG (HS) Panelists: Dr. BK Pandey, Dr. V Pandey, Dr VP Sharma	Shwet Kamal