

Dr. KAMLESH KUMAR SHUKLA

Research Area

Applied mycology, In vitro mass production technology of VAM , Mushroom production and Endophytic fungi

Working Profile

- **As Assistant Professor** (15th September 2008- continue) in School of study in Biotechnology, Pt Ravishankar Shukla University,.Raipur (C.G.)
- **As Research Scientist** (June 2002 – September 2008) in Biotechnology and Management of Bioresources Division at Tata Energy and Researc Institute **(TERI) New Delhi**
- **As Project Fellow** (June 1997 to March 2002) in a DBT sponsored research project project, entitled “ Screening and Identification of edible tribal mushroom species: Development of database and protocol for their large scale production. Department of Bioscience Rani Durgawati University Jabalpur (MP)
- **As Research Fellow** (six months, January 1997 to June 1997) in a ICFRE sponsored research project, entitled “Development and use of mycoherbicides from indigenous strains of fungal pathogens for management of *Lantana camara* serious threat to resurgence of forest trees in Madhya Pradesh” ICMR sponsored project

Project Coordinator in TERI

1. Development of hyphal fusion mechanism in Arbuscular Mycorrhizal Fungi *in vitro*. *Funded by: Department of Biotechnology,(DBT) (2002-2005)*
2. Demonstration of technology package for bamboo plantation with soil enrichment and amendments using fly ash and mycorrhizal biofertilizers in district Korba. *Funded by: Technology Information, Forecasting & Assessment Council (TIFAC) 2004-2006*

3. Field validation and product formulation of bio inoculants with particular reference to low-input wheat-rice and wheat-pulse cropping systems. . *Funded by: Indo – Swiss Collaboration in Biotechnology (ISCB) 2005-2008*

4 .Technology customization for mycorrhizal strains of Premier Tech biotechnologies. *Funded by: Pont-Rouge primer tech Canada. 2006-2008*

5. Project green- growing renewable energy for energy security Jatropha plantation . *Funded by: B P Technology Centre UK. 2007-2008*

Publications:

- Identification, Germplasm Collection and Commercial Cultivation of Edible Mushrooms at Rural Women Sites in Madhya Pradesh. In proceedings on the National Workshop on Role of Biotechnology in Upliftment in the New Millennium, Agra (UP) 51-55.(2002)
- Nutritional profile of prominent wild edible mushroom genera of central India: *Russula & Lactarius*. In: *Indian J. Mushrooms* 20 (1&2) : 21-23 (2002).
- Nutritional Potential of *Termitomyces heimii* : An Important Wild Edible Tribal Mushroom Species of M.P. *J. Basic Appl. Mycol.* 1(1) 36-38.(2002)
- Diversity and Systematics of Agaricales of Central India. In *Frontiers of Fungal Diversity in India* (Eds. G. P. Rao, C. Manoharachari, D. J. Bhat, R. C. Rajak & T. N. Lakhanpal) International Book Distributing Company Lucknow 297-312 (2002).
- Mushroom Poisoning: Diagnosis and Treatment. In *Recent Advances in Forensic Biology* (Eds. A. K. Guru & P. Shrivastava) Sagar (M. P.) Published by Forensic Science Laboratory & Anmol Publications Pvt. Ltd. PP. 35-67 (2002).
- Shelf life studies of *Pleurotus florida* sing In : *Proc. Nat. Acad. Sci* 73(3&4) : 1-7. (2003).
- Agaricales of Central India-I : Two New Species In : *Indian J Mushroom* 21(1&2):29-31(2003)
- Investigation on In vitro Fruiting of an Indigenous Species of *Lentinus cladopus* Len.In : *Indian J Mushroom* 21(1&2): 25-28. (2003).
- *In-vitro* cultivation of a indigeneous species of *Lentinus cladopus*. *Indian. J.Mushrooms.* 21: 25-28. (2003).
- Mushrooms and Their Sustainable Utilization.In: *Everyman's Science* 38 (6): 357-365. (2004).

- Studies on spawn production of an indigenous edible species of *Lentinus cladopus* (LEN). *J Microbial Wld* 7(2), 182-7. (2005).
- Diversity and Nutraceutical potential of wild edible mushrooms of Central India. In; *Microbiol diversity:current perspectives and potential applications* (Ed. T. Satyanarayana & B.N. Johri). I.K. International Pvt. Ltd., New Delhi. pp. 967-980. (2005).
- Optimization of physico-chemical parameters for mycelial growth of an indigenous species of *Pleurotus florida*(Sing.) *J. Microb. World* 7(2) : 216-226. (2005).
- Mushrooms in Central India. In : *Plant Biodiversity, Microbial Interactions and Environmental Biology* (Eds. S.N. Chaturvedi & K.P. Singh) Avishkar Publishers, Jaipur, India, pp 37-51 (2005).
- Investigations on *in vitro* fruiting of an edible facultative ectomycorrhizal species of *Lactarius* J. *Tropical Forestry*, Vol. 24(1&2), 65-69. (2008).
- Prevalence of tribal Mushroom in Sal Forests of Chhattisgarh. *J.Mycopathol.Res. Vol 47 (2) 111-117* (2009).
- Diversity of Agarics in Achanakmar-Amarkantak Biosphere reserve, Chhattisgarh. *J. of Mushroom Research* Vol.19 (1) 2010

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