Dr. Meenakshi Singh

Objectives

Taking place the proficiency toward teaching and revolve to endure a Scientist in the field of Arbuscular mycorrhizal fungi, carbon sequestration and Biocontrol Technology and host preference of the soil fungi and interactions with other microorganisms.

Educational Qualifications

Ph. D. (Botany), 2011. Dr. H.S. Gour University, Sagar MP, India

Title : *Studies on evidence of host and environmental preference in arbuscular mycorrhizal fungi associated with vegetable crops of Jhansi region.*

M. Sc. (Botany), 2006. with specialization of Industrial Microbiology at Bundelkhand University, Jhansi (UP)

B. Sc. (2004). V.B.S. Purvanchal University, Jaunpur, (UP)

Teaching Experience

- Presentaly working as Asst. Professor (ad-hoc) at the Departmentof Botany, Guru Ghasidas University, Bilaspur
- Teaching of casual classes in session 2007-08 at the Department of Botany in Dr. H.S. Gour University, Sagar

Publications (07)

- 1. Singh PK, **Meenakshi Singh**, Tripathi BN (2012). Glomalin : an arbuscular mycorrhizal fungal soil protein. *Protoplasma* (DOI: 10.1007/s00709-012-0453-z).
- 2. Meenakshi Singh, Singh PK, Vyas D. (2011). Mycorrhization in medicinal plants. *Mycorrhiza News*, 23 (1): 19-23.
- 3. Singh PK, Meenkashi Singh, Vyas D. (2010). Biocontrol of *Fusarium* Wilt of Chickpea using Arbuscular Mycorrhizal Fungi and *Rhizobium leguminosorum* Biovar. *Caryologia*, 63(4): 349-353.
- 4. Singh PK, **Meenkashi Mishra**, Vyas D. (2010). Effect of root exudates of mycorrhizal tomato plants on microconidia germination of *Fusarium oxysporum* f. sp. *lycopersici* than root exudates from non-mycorrhizal tomato plants. *Archives of Phytopathology and Plant Protection*, 43(15): 1495-1503.
- 5. Singh PK, **Meenkashi Mishra**, Vyas D. (2010). Interactions of vesicular arbuscular mycorrhizal fungi with *Fusarium* wilt and growth of tomato (*Lycopersicon esculentum* Mill.)". *Indian Phytopathology*, 63(1):30-34.
- 6. Meenkashi Mishra, Singh PK, Vyas D. (2009). Phytoprotection role of AM fungi against the *Fusarium* wilt of tomato. *BIOZONE*, 1(2): 98-109.
- 7. Vyas D, **Meenakshi Mishra**, Yadav R. (2008). Effect of biocontrol agents against the root rot of pan caused by *Phytophthora parasitica* var. *piperina*. *Madhya Bharti* 54:15-18.

Book

Meenakshi Singh, Singh PK (2011). *Ethanobotany*. ISBN No. 978-3-8465-2736-8. Lap Lambert Academic Publishing, Germany.



Book Chapters (04)

- 1. Vyas D, **Meenakshi Mishra**, Singh PK, Shukla A, Gupta RK. (2011). Arbuscular mycorrhizal fungi : The hidden heroes of the soil. In: *Microbial Biotechnology and Ecology* (Eds. Vyas D, Paliwal GS, Khare PK, Gupta RK), 225-255. Daya Publications, New Delhi
- 2. Dwivedi OP, **Meenkashi Mishra**, Singh PK, Richharia PK, Soni P, Vyas D. (2011). Cumulative effect of VAM fungi. In: *Microbial Biotechnology and Ecology* (Eds. Vyas D, Paliwal GS, Khare PK, Gupta RK), 256-267. Daya Publications, New Delhi
- 3. Meenakshi Mishra, Singh PK, Vyas D. (2011). Arbuscular mycorrhizal fungi as symbiotic bioengineers. In: *Contribution to the Mycological Progress* (Ed. Sati SC), 119-135. Daya Publications, New Delhi
- 4. Vyas D, Singh PK, **Meenkashi Mishra**, Gupta RK. (2010). Phytoprotection by arbuscular mycorrhizae. In: *Bioinoculants for Integrated Plant Growth* (Ed. Laxman HC), 373-420. MD Publications, New Delhi

Symposia / Conferences (08)

- Paper presented entitled "Biocontrol of Fusarium wilt of tomato Aspergillus niger" in a National Symposium on Plant Biology and its Role in Sustainable Food and Energy Production, held at Department of Botany, Guru Ghasidas University, Bilaspur (C.G.), 17-18 March, 2012.
- Poster presented entitled "Arbuscular mycorrhizal fungal Madhya Pradesh" in a National Conference on Forest, Environment and Climate Change: Issues and Challenges, held at Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas University, Bilaspur (C.G.), 30-31 January, 2012.
- Paper presented entitled "Arbuscular Mycorrhizal Fungi: The Symbiotic Bioengineers" in a National Seminar on Environmental Safety and Solid Waste Management, held at Government Arts and Commerce (Nodal) College, Sagar (M.P.), 9-10 March, 2010.
- Paper presented entitled "Diversity of Vesicular Arbuscular mycorrhizal fungi in Lycopersicon esculentum" in Silver Jubilee Young Scientist Congress held at Vigyan Bhavan, Bhopal, 22-23 February, 2010.
- Poster presented entitled "Exploitation of AMF for Improvement of Tomato Health Status" in 97th Indian Science Congress held at Thiruvananthapuram, January 3-7, 2010.
- Poster presented entitled "Effect of Mycorrhization on the Growth of Tomato Plant" in International Symposium on Plant Biology and Environment: Changing Scenario held at Allhabad University, Allhabad, 17-19 December 2008.
- Poster presented entitled "Diversity, Distribution of AM Fungi in Some Vegetable Crops of Jhansi Region" in National Seminar on "Vision 2008: Current challenges in Biological Science" held in Dr. Hari Singh Gour University, Sagar, 20 - 21 January 2008.
- Poster presented entitled "Does AM Fungi Control the Fusarium Wilt of Tomatoes" in 48th Annual conference of Association of Microbiologist of India, held at Indian Institute of Technology Madras, Chennai, 18 - 24 December 2007.