

## Curriculum Vitae

**Name** SHIPRA SINGH  
**Father's Name** Shri A. K. Singh  
**Husband's Name** Er. Chaman Singh  
**Date of Birth** 6 September, 1978  
**Nationality** Indian  
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### **Educational Qualification**

<b>Exam Passed</b>	<b>Year</b>	<b>University/Board</b>	<b>Subject</b>	<b>Division &amp; Percentage</b>
High School	1994	U. P. Board	Science, Biology	First 76%
Intermediate	1996	U. P. Board	Biology, Physics, Chemistry	First 67%
B. Sc.	2000	Dr. B. R. Ambedkar University, Agra (U.P.)	Zoology, Botany, Chemistry	First 62%
M. Sc.	2002	G. B. Pant University of Agri. & Tech., Pantnagar (U.A.)	Microbiology	First 73%
Ph.D.	2009	Gurukul Kangri university, Haridwar (U.A.)	Microbiology	Awarded
NET (LS)	2001	CSIR	Life Sciences	Qualified

**Ph.D Thesis:** Diversity and field applications of vesicular arbuscular mycorrhizal fungi associated with tea

**M. Sc. Thesis:** Molecular characterization of 1-aminocyclopropane-1-carboxylic acid (ACC) deaminase producing rhizobacteria from wheat rhizosphere

**Work experience:** Worked as JRF and SRF in a DBT funded project entitled 'Characterization and improvement of tea through biotechnological tools' on mycorrhizal aspects at G. B. Pant Institute of Himalayan Environment and Development, Almora (UA) for approx. four years.

**Present status: Scientist** (WOS-B scheme of DST)

Project title: 'AM fungal based biofertilizer formulations for tea plantations of colder regions'

### **Publications:**

**Shipra Singh**, Anita Pandey, Bhaskar Chaurasia and Lok Man S Palni (2008) Diversity of arbuscular mycorrhizal fungi associated with the rhizosphere of tea growing in 'natural' and 'cultivated' ecosites. **Biology and Fertility of Soils** 44: 491-500.

**Shipra Singh**, Anita Pandey and Lok Man S Palni (2008) Screening of arbuscular mycorrhizal fungal consortia developed from the rhizospheres of natural and cultivated tea plants for growth promotion in tea [*Camellia sinensis* (L.) O. Kuntze]. **Peedbiologia** 52: 119-125.

Ajay Kumar, **Shipra Singh**, Anita Pandey (2009) General microflora, arbuscular mycorrhizal colonization and occurrence of endophytes in the rhizosphere of two age groups of *Ginkgo biloba* L. of Indian Central Himalaya. **Indian Journal of Microbiology** 49: 134-141

Anita Pandey, **Shipra Singh**, Ajay Kumar, Lok Man S Palni, Mukesh Malviya and Rinu K (2009) Isolation of an endophytic plant growth promoting bacterium *Pseudomonas* sp. strain gb3 (MTCC 9476) from *Ginkgo biloba* L., growing in temperate Himalaya. **National Academy Science Letters**

**Shipra Singh** and Anita Pandey (2005) Arbuscular Mycorrhizal fungi associated with tea. **Hima Paryavaran** (Newsletter). 17:2 pp 9-10

**Shipra Singh**, Anita Pandey, Bhavesh Kumar and Lok Man S Palni (2010) Enhancement in growth and quality parameters of tea [*Camellia sinensis* (L.) O. Kuntze] through inoculation with arbuscular mycorrhizal fungi in an acid soil. **Biology and Fertility of Soils** (accepted)

Anita Pandey, Pankaj Trivedi, Bhavesh Kumar, Bhaskar Chaurasia, **Shipra Singh** and Lok Man S. Palni (2004) Development of microbial inoculants for enhancing plant performance in the

mountains. pp 13-20. *In: Biotechnological approaches for sustainable development*. Eds. M. Sudhakara Reddy and Sunil Khanna. Allied Publisher Pvt. Limited, New Delhi.

Anita Pandey, Lok Man S. Palni, Pankaj Trivedi, **Shipra Singh**, Bhaskar Chaurasia, Ajay Kumar, Rajneesh K Agnihotri, Bhavesh Kumar, MB Tamang and Niladri Bag (2006) Microbial fertilizers to support organic tea production in the mountains with special reference to Uttaranchal. In: NK Jain (ed) Tea in Hills for Smallholder Growers. (in press)

### **Oral/Poster presentation:**

**Shipra Singh**, Anita Pandey and Lok Man S Palni (2009) Plant growth promotion in tea (*Camellia sinensis* L. O. Kuntze) following inoculation with arbuscular mycorrhizal fungi. 50<sup>th</sup> Annual conference Association of Microbiologists of India December 15-18, 2009, national Chemical Laboratory, Pune (Maharashtra).

Nidhi Gujar, **Shipra Singh**, B.N. Johri and Anil Prakash (2009) Isolation and characterization of plant growth promoting Bacteria from root nodules of wild legumes from Betul district (M.P.). 50<sup>th</sup> Annual conference Association of Microbiologists of India December 15-18, 2009, national Chemical Laboratory, Pune (Maharashtra).

Anita Pandey, Lok Man S. Palni, Pankaj Trivedi, **Shipra Singh**, Avinash Sharma, Mukesh Kumar Malviya, Rinu K. and Bhavesh Kumar (2009) Cold tolerant Microbial inoculants for field application under mountain ecosystem. 50<sup>th</sup> Annual conference Association of Microbiologists of India December 15-18, 2009, national Chemical Laboratory, Pune (Maharashtra).

Shipra Singh (2009) Polyphasic characterization of plant growth promoting rhizobia associated with medicinal legumes of Madhya Pradesh. 24<sup>th</sup> Young Scientist Congress, MPCST.

Anita Pandey, Lok Man S. Palni, Pankaj Trivedi, **Shipra Singh**, Bhaskar Chaurasia, Bhavesh Kumar, M. Nadeem, Deepa Bisht and Anjala Durgapal (2005) Microbial diversity in Himalayan region and the use of microbial resources for improved seed germination, seedling growth and subsequent field establishment of forest species and plantation crops. International conference on Microbial Diversity: Current perspectives and potential applications. April 16-18, 2005, University of Delhi, New Delhi (India).

Anita Pandey, Pankaj Trivedi, **Shipra Singh**, Bhavesh Kumar and Lok Man S. Palni (2005). Rhizosphere and ecological competence: Key factors in the selection of bioinoculants for mountains. National workshop on conservation and sustainable management of belowground biodiversity. 21-23 June 2005, Kerala Forest Research Institute, Peechi, Kerala, India.

**Shipra Singh**, Anita Pandey, Bhaskar Chaurasia and Lok Man S Palni (2005) Diversity of Arbuscular mycorrhizal fungi associated with tea bushes in Kumaun region of Uttaranchal

Himalaya. International conference on Microbial Diversity: Current perspectives and potential applications. April 16-18, 2005, University of Delhi, New Delhi (India).

**Patent filed:**

Mycorrhizal consortium for tea plantations in colder regions through DBT (2541/DEL/2006 dated 27.11.2006).

**Trainings/Workshop and Membership**

- Attended 42<sup>nd</sup> annual conference of Association of Microbiologists of India, held at Gulberga.
- Participated in DBT-CAMS sponsored workshop on 'Molecular taxonomy of the symbiotic fungi' at JNU, New Delhi. 1-21 Dec., 2003.
- Participated in workshop on 'Intellectual Property Rights: Himalayan Context', 26-27 Feb '06 at GBPIHED, Kosi-Katarmal, ALmora.
- Participated in the symposium 'Himalayan Biodiversity- Issues and option for priority research', 27-28 March, '06 at GBPIHED, Kosi-Katarmal, ALmora.
- Member of 'Mycorrhiza News', TERI, New Delhi.

**Achievements:**

- Recipient of graduate teaching assistantship during P. G. programme.
- M. Sc. Students' representative of Association of Microbiologists of India.