Vibhay Nath Tripathi, Ph.D.

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Research Interests:

- A) Study of conjugation machinery and role of Type IV secretion substrates in virulence of *Rhodococcus equi*.
- B) Molecular analysis of *Rhodococcus equi* biofilm formation and its role in virulence.

Education:

1999-2005	Ph. D. in Genetics Department of Genetics, University of Delhi, South Campus, New Delhi, India	
1997-1999	Master of Science, Botany, Department of Botany, Banaras Hindu University, Varanasi, India	
1994-1997	Bachelor of Science (with Honors), Botany, Department of Botany, Banaras Hindu University, Varanasi, India	
Research Experience:		
2014-till date	Assistant Professor Department of Botany Guru Ghasidas Central University Bilaspur, CG, India	
2007-2014	Post-Doctoral Fellow Department of Infectious Diseases College of Veterinary Sciences University of Georgia Athens, GA, USA	
2006- 2007	Post-Doctoral Fellow (DBT) Eukaryotic Gene Expression Lab National Institute of Immunology New Delhi, India	

2005- 2006	Project Associate Eukaryotic Gene Expression Lab National Institute of Immunology New Delhi, India
1999- 2005	Ph.D Scholar Department of Genetics University of Delhi, South Campus New Delhi, India

Awards/ Fellowships and Membership:

- > Member of American Society of Microbiologists.
- > Life member of Association of Microbiologists of India (AMI).
- Travel Grant to attend the meeting in Mid-Atlantic Microbial Pathogenesis Meeting, Wintergreen Resort, Virginia, USA (2011).
- Best poster award in Science of Veterinary Medicine Symposium, Translating basic science to medical tools, UGA, Athens, USA (2010).
- Best poster award in 4th Havemeyer Workshop on *Rhodococcus equi*. Edinburgh, UK (2008).
- Awarded Post-Doctoral Fellowship from Department of Biotechnology, Government of India, India (to work on an independent project).
- Junior/Senior research fellowships by University Grants Commission, India during Ph. D.
- > Qualified in Graduate Aptitude Test in Engineering (1999).

Publications:

Tripathi VN, Latek M, Azuonye I, Bazques-Boland JA and Hondalus MK (2013) Regulation of Dicarboxylate transport and utilization in the opportunistic macrophage pathogen *Rhodococcus equi*. (Manuscript in Preparation)

Tripathi VN, Harding C and Hondalus MK (2012) Conjugal Transfer of Virulence in *Rhodococcus equi*. J. Bacteriol. 194:6790-6801

Tripathi VN and Srivastava Sheela (2006) Extracytoplasmic storage as the nickel resistance mechanism in a natural isolate of *Pseudomonas putida* strain S4. **Can J. Microbiol.** 52(4): 287-292

Tripathi VN and Srivastava Sheela (2006) Ni^{2+} -uptake in *Pseudomonas putida* strain S4: a possible role of Mg²⁺-uptake pump. **J. Biosciences**. 31: 101-107

Srivastava S, Singh P, Bhagat R and **Tripathi VN** (2005) Application of bacterial biomass as a bioindicator. **Current Science**. 89 (7): 1248-1251

Srivastava S, Saxena D, Choudhury R, Joshi N and **Tripathi VN** (2002) Genetics of metal resistance in soil bacteria. **In:** Mineral Biotechnology (Eds: Shukla, L.B. and Mishra, V.N.) Allied Publishers Pvt. Ltd. New Delhi. pp. 198-203

Invited Talk/ Posters presented/ Conferences attended:

Tripathi VN (2010) Conjugal transfer of virulence in *Rhodococcus equi*. 3rd Southeastern Tuberculosis Meeting, University of North Carolina, Chapal Hill 15-16 Jan 2010 (**Invited Talk**)

Tripathi VN (2012) Conjugal transfer of a virulence plasmid in the opportunistic intracellular actinomycete *Rhodococcus equi*. Annual Meeting, Southeastern Branch of the American Society for Microbiology, Athens GA October 25 – 27, 2012, (**Oral presentation**)

Tripathi VN, Sassetti, C and Hondalus MK (2012) Detection of genes essential for *in vivo* survival of *Mycobacterium tuberculosis* Using Transposon Capture Sequencing (TraCS). 4th Southeastern Tuberculosis Meeting. Emory University, Atlanta 13-14 Jan. 2008.

Tripathi VN, Harding, C and Hondalus MK (2011) Study of Conjugation in *Rhodococcus equi*, transfer of virulence genes from Pathogenic to Non-Pathogenic Bacteria. Mid-Atlantic Microbial Pathogenesis Meeting, Wintergreen Resort, Virginia Jan, 30- Feb, 1 2011 (Awarded Travel Grant to attend the meeting)

Tripathi VN, Harding, C and Hondalus MK (2010) Conjugal Transfer of virulence in *Rhodococcus equi*. Science of Veterinary Medicine Symposium, Translating basic science to medical tools, UGA, Athens 14 Oct 2010 (**Won the award for best Poster**)

Tripathi VN, Azuonye I, Latek M, Rogovskyy A, Coulson G, Bazques-Boland JA and Hondalus MK (2009) Regulation of Dicarboxylate transport and utilization in the opportunistic macrophage pathogen *Rhodococcus equi*. 109th General Meeting of American Society of Microbiology (ASM), Philadelphia 17-21 May 2009

Tripathi VN, Azuonye I, Rogovskyy A, Coulson G and Hondalus MK (2008) Study of C4 dicarboxylic acid transport and its Regulation in *Rhodococcus equi*. 4th Havemeyer Workshop on *Rhodococcus equi*. Edinburgh, UK 13-16 July 2008 (Won the award for best **Poster**)

Rogovskyy A, **Tripathi VN**, Sassetti C, and Hondalus MK (2008) Screening for genes of *Mycobacterium tuberculosis* required for virulence utilizing both mouse and guinea pig aerosol infection models. 2nd Southeastern Tuberculosis Meeting, University of Georgia, Athens 19 Jan. 2008.

Tripathi VN and Srivastava S (2003) Mg²⁺ and Ni²⁺ interactions in *Pseudomonas putida* S4. 44th Annual Conference of the Association of Microbiologists of India, 12-14 November, 2003; University of Agricultural Sciences, Dharwad, India. Abstract, pp 186