

CURRICULUM VITAE

Dr. VISHAL PRASAD

Assistant Professor

Institute of Environment and

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Research Interest:

Plant responses to biotic and abiotic stress factors

Teaching Experience:

Assistant Professor, Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi – 221005, Uttar Pradesh, India (February 2014 - till date)

Assistant Professor, Plant Biotechnology, Rajiv Gandhi South Campus, Banaras Hindu University, Varanasi – 221005, Uttar Pradesh, India (September 2012 to January 2014)

Educational Details:

Ph.D (**Botany** - 2010) from Banaras Hindu University, Varanasi, Uttar Pradesh, India (*Topic of Doctoral Research: Study of Stress Induced Cell Death Pathway(s) in Tomato*)

M.Sc. (**Biotechnology** - 2004) from The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat (*Topic of PG Dissertation: Cry1Ac toxin binding proteins from *Helicoverpa armigera* larval midgut*)

B.Sc. (Botany (H), Industrial Microbiology, Chemistry - 2002) from Banaras Hindu University, Varanasi, Uttar Pradesh, India (*Topic of UG Dissertation: Stress induced Proline accumulation in a green alga*)

Publications:

Research Papers –

- Meena, M., Prasad, V. and Upadhyay, R.S. (In press) Assessment of *Alternaria alternata* isolates for metabolite production isolated from different locations of Varanasi. *Environmental Biology and Conservation*.
- Meena, M., Prasad, V. and Upadhyay, R.S. (Accepted) Evaluation of biochemical changes in leaves of tomato infected with *Alternaria alternata* and its metabolite. *Environmental Biology and Conservation*.

- Prasad, V., Singh, V.K. and Singh, A.K. 2013. Fungal phytotoxins: a tool for weed control. Proceedings of the International Conference on Global Scenario of Traditional System of Medicine, Ayurveda, Agriculture and Education pp. 67-69.
- Prasad, V. and Upadhyay, R. S. 2011. Isolation and characterization of *Alternaria alternata* and its toxic metabolite causing leaf spot disease of tomato. *Environmental Biology and Conservation*. 14:9-17.
- Prasad, V. and Upadhyay, R. S. 2010. *Alternaria alternata* f. sp. *lycopersici* and its toxin trigger production of H₂O₂ and ethylene in tomato. *Journal of Plant Pathology* 92(1): 103-108.
- Upadhyay, R.S. and Prasad, V. 2008. Programmed cell death in plant-microbe interaction: an overview. *Journal of Scientific Research* 52: 143-149.

Book Chapters –

- Prasad, V. and Upadhyay (2011). Ascorbate-Glutathione: saviours against oxidative stress. In: *Oxidative stress in plants: causes, consequences and tolerance*. eds. N.A. Anjum, S. Umar and A. Ahmad; pp. 149-176. I.K. International New Delhi.
- Prasad, V., Singh, B.K., Kumar, K.S., Ahmed, M. and Upadhyay, R.S. 2008. Microorganisms mediated management of plant pathogens. In: *Potential microorganisms for sustainable agriculture- A techno-commercial approach*; eds. D.K. Maheswari and R.C. Dubey; pp. 267-285. I.K. International New Delhi.
- Prasad, V., Upadhyay, R.S. and Pandey, R.R. 2012. Applications of Microorganisms in Nanotechnology. In: *Microbial Applications*; eds. R. Gaur, S Mehrotra and R.R. Pandey; pp. 352 – 365. I.K. International New Delhi.
- Prasad, V., Singh, V.K., Meena, M., Tiwari, A., Zehra, A. and Upadhyay, R.S. 2012. Production and Technological Applications of Enzymes from Microbial Sources. In: *Applications of Microbial Genes in Enzyme Technology*; eds: V. K. Gupta, M. Tuohy, G.D. Sharma and S. Gaur. pp. 175-204. Nova Science Publishers Inc. New York.

Membership of Scientific/Academic Societies:

- Life member International Society for Conservation of Natural Resources.
- Life member Indian Science Congress Association.

Presentations in Seminar/Symposia/Conference:

Alternaria alternata and its toxin induce production of H₂O₂ and ethylene in tomato. Paper presentation in National symposium on Current Challenges in Plant Sciences: Gene to Ecosystem organized by Department of Botany, BHU from 24-25 March, 2009.

Salt stressed induced H₂O₂ production, lipid peroxidation and DNA degradation in tomato roots. Paper presentation in National symposium on Emerging Trends in Plant Sciences organized by Department of Botany, BHU from 3-4 March, 2011.

Effect of plant extracts on fungal pathogens causing leaf spot and wilt disease in tomato. Poster presentation in Biology of Infection, Immunity and Disease Control in National

symposium on Pathogen-Plant Interactions organized by Department of Plant Sciences, School of Life Sciences, University of Hyderabad from 2-4 December, 2011.

Evaluation of health promoting lycopene content in twelve different tomato cultivars. Poster presentation in National conference on Biology and Bioinformatics of Economically Important Plants and Microbes organized by Department of Botany and Bioinformatics Facility, University of North Bengal from 17-19 February, 2012.

Evidence for involvement of protease activity during *Alternaria* leaf spot disease of tomato. Poster presentation in International Conference on Mycology and Plant Pathology: Biotechnological Approaches organized by Department of Botany, BHU from 27-29 February, 2012.

Evaluation of Rhizospheric Microorganisms for their Plant Growth Promoting Properties and Salt Stress Tolerance Capabilities. Poster presentation in National workshop on Advances in PGPR research organized by Banaras Hindu University from 7-8 October, 2014.

Effect of Ascorbic acid pretreatment against acute ozone toxicity in tomato. Poster presentation in Indian Science Congress organized by Mumbai University from 3-7 January, 2015.