









7. R.S. Sharma, S. Raiping, M.K. Das, **V. Mishra**, N. Rau, M. Sharma (2006). Phage induced functional diversity in rhizosphere bacteria and its significance in restoration ecology. **International Symposium on Biology, Ecology and Management of World's Worst Plant Invasive Species**. 10-14 December 2006.
8. M.K. Das, R.S. Sharma, **V. Mishra**. Prospecting of stem-parasitic weeds for novel medicinally important compounds. In: **International Symposium on Biology, Ecology and Management of World's Worst Plant Invasive Species**. December 10-14 2006.
9. R.S. Sharma, A. Mohmmmed, **V. Mishra**, C.R. Babu. Diversity in functionally important traits of promiscuous group of *Sesbania*-rhizobia and their colonization potential to ecologically diverse habitats of a semi-arid region of India. **XVII International Botanical Congress 2005**, July 17-23, 2005.
10. **V. Mishra**, R.S. Sharma, T.P. Singh, C.R. Babu. Novel ribosome inactivating proteins (RIPs) from Himalayan *Viscum album* (L.)- potential biomolecules for bioprospecting. **XVII International Botanical Congress 2005**, July 17-23, 2005.
11. M.K. Das, S. Raiping, **V. Mishra**, M. Sharma and R.S. Sharma. Significance of bacteriophage sensitivity in rhizosphere ecology of growth promoting bacteria of *Dichanthium annulatum* (Willem.). In: **Third International Conference on Plants and Environmental Pollution (ICPEP-3)**, 28 November – 2 December 2005.
12. S. Raiping, R.S. Sharma, M. Sharma, **V. Mishra**. Soil-borne bacteriophages of rhizobacteria of *Dichanthium annulatum* (Willem.) inhabiting mined out area and their significance in inoculation technologies. In: **Third International Conference on Plants and Environmental Pollution (ICPEP-3)**, 28 November – 2 December 2005.
13. N. Rau, R.S. Sharma, **V. Mishra**. Variations in functional properties among rhizosphere bacteria of *Saccharum munja* (L.) inhabiting heavy metal contaminated fly ash dumps. In: **Third International Conference on Plants and Environmental Pollution (ICPEP-3)**, 28 November – 2 December 2005.
14. **V. Mishra**, R.S. Sharma, T.P. Singh, C.R. Babu. Diversity In Ribosome inactivating proteins from a Himalayan parasitic plant: *Viscum album* L. In: **ICOB-4 & ISNP-24, IUPAC International Conference on Biodiversity and Natural Products: Chemistry and Medical Applications**, 26-31 January 2004.
15. R. Singh, R.S. Sharma, **V. Mishra**, N. Seth, C.R. Babu. Chemical prospecting for medicinal compounds from a hemi-parasitic plant (*Dendrophthoe trigona*) inhabiting western ghats of India. In: **ICOB-4 & ISNP-24, IUPAC International Conference on Biodiversity and Natural Products: Chemistry and Medical Applications**, 26-31 January 2004.
16. **V. Mishra**, R.S. Sharma, S. Bilgrami, S. Yadav and T.P. Singh. Diversity in ribosome inactivating proteins (Rips): some molecular evidences. In: **International Symposium on Ecology of Biological Invasions**, December 4-6, 2003.
17. **V. Mishra**, S. Bilgrami, M. Paramshivam, S. Yadav, R.S. Sharma, C.R., Babu, T.P. Singh (2003). Crystal structure of a ribosome inactivating protein (Viscumin) from the Indian *Viscum album* reveals the presence of natural superinhibitor. "**International Symposium on Modern Trends in Cellular and Molecular Biology**" on March 6-7, 2003
18. **V. Mishra**, S. Bilgrami, M. Paramshivam, A.K. Varma., S. Yadav, R.S. Sharma, C.R. Babu, T.P. Singh. Crystal structure of a ribosome inactivating protein (viscumin) from Indian *Viscum album* at 2.8 Å resolution in **The First Indian Symposium of the Protein Society – Protein Structure and Function**, by International Protein Society at Indian Institute of Technology Bombay, Mumbai, October 18 - 20, 2002.
19. **V. Mishra**, A.K. Varma, S. Yadav, R.S. Sharma, C.R. Babu, T.P. Singh. Crystal structure of a Ribosome inactivating viscumin from Indian *Viscum album* at 2.8 Å resolution in **AsCA 01 IVth Meeting of Asian Crystallographic Association** at Indian Institute of Science Bangalore, India, November 18-21, 2001.

#### **B. National Conferences**

20. D Rawat, S Sharma, RS Sharma, **V Mishra** (2015). Proteomic analysis of halophilic bacterium efficient in degrading Acid Orange 7 Dye. 7<sup>th</sup> Annual Meeting of Proteomics Society of India (PSI) "Biochromatography, Molecular Recognition and Proteomics" Vellore Institute of Technology (VIT), Vellore, Tamil Nadu, Dec 3–6, 2015
21. D Rawat, RS Sharma, **V Mishra** (2015). Toxicity assessment of microbe-mediated degradation of Acid Orange 7 dye. In: 1<sup>st</sup> International Conference on Trends in Cell and Molecular Biology (TCMB), Birla Institute of Technology and Science (BITS) Pilani, Goa, Dec 19–21, 2015

22. S. Karmakar, **V. Mishra**, R.S. Sharma (2013). Role of environmental management of heavy metals to improve reproductive health of human. National Symposium on Changing Environment and Lifestyle: Impact on Reproductive Health (**NSCEL- 2013**), AIIMS, New Delhi. 19–20 November 2013
23. **V. Mishra** (2014). Success of bioprospecting for treatment and prevention of reproductive cancers National Symposium on Changing Environment and Lifestyle: Impact on Reproductive Health (NSCEL-2013), AIIMS, New Delhi 19– 20 November 2013
24. S. Singh. **V. Mishra** (2013). Prospecting of ribosome inactivating proteins for the development of traditional abortifacient into clinically useful product. National Symposium on Changing Environment and Lifestyle: Impact on Reproductive Health (NSCEL-2013), AIIMS, New Delhi. 19– 20 November 2013
25. S. Karmakar, **V. Mishra**, R.S. Sharma (2013). Role of environmental management of heavy metals to improve reproductive health of human. National Symposium on Changing Environment and Lifestyle: Impact on Reproductive Health (NSCEL-2013), AIIMS, New Delhi. 19– 20 November 2013
26. **V. Mishra**, A.S Ethayathulla, S. Bilgrami, R.S. Sharma, S. Yadav, P. Kaur, C.R. Babu T.P. Singh. Crystal structure determination and structure-function relationship of a type II ribosome inactivating protein from a Himalayan hemi-parasitic plant. **34<sup>th</sup> National Seminar on Crystallography, Indian Crystallographic Association and INSA National Committee for IUPAB & IUCr**, January 10-12 2005.
27. R.S. Sharma, A. Mohmmed, **V. Mishra**, C.R. Babu. Strainal differentiation in the promiscuous group of rhizobia from three *Sesbania spp.* colonizing ecologically distinct habitats of semi-arid Delhi region. In: **BioTech 2004: Challenges & Opportunities, 2<sup>nd</sup> National Conference Biotechnology Society of India, New Delhi**. October 13-15, 2004.
28. M. Sharma, **V. Mishra**, C.R. Babu, R.S. Sharma. Lithophytic grasses and associated microbes: ideal inputs for biological technologies for ecological restoration of degraded lands. In: **BioTech 2004: Challenges & Opportunities, 2<sup>nd</sup> National Conference Biotechnology Society of India, New Delhi**. October 13-15, 2004.
29. **V. Mishra**, S. Yadav, R.S. Sharma, C.R. Babu, T.P. Singh. Crystal structure of a ribosome inactivating viscumin from Indian *Viscum album* in. **XXXI National Seminar on Crystallography**, BARC, Mumbai, June 19-22, 2001.

#### Research Projects (Major Grants/Research Collaboration)

**Principal Investigator**, UGC-DU sponsored R & D project “Prevalence and ecological significance of polyphosphate ..... in abandoned mine” 2015-2016

**Principal Investigator**, DST-Gol sponsored R & D project: Functional and Taxonomic Diversity Among Plant Growth Promoting Rhizobacteria ..... Fly Ash Environment” 2013-2016

**Principal Investigator**, UGC-DU sponsored R & D project “Prevalence Diversity and distribution of..... as determinant factors” 2014-2015

**Co-Principal Investigator**, DU-DST sponsored R & D project “Diversity in bacteria ..... of bacteriophages” 2014–2018

**Mentor** DU sponsored Innovation project “Exploring the use of biocatalysis in laboratory chemical reactions: A green chemistry approach” 2014-2015

**Principal Investigator**, NBDB, DBT sponsored R & D project “Evaluation of Viscaceae Members of Western Ghats Region for Prospecting of Ribosome Inactivating Proteins”, 2006-2010.

#### Awards and Distinctions

\* **SERB Women Excellence Award 2014**

\* **DBT CREST Award 2011-2012**

\* **DST BOYSCAST Award 2010**

\* **INSA Young Scientist Medal in Plant Sciences (2006)**

\* **N.S. Rangaswamy Medal for the Best Ph.D. Thesis, University of Delhi**

Signature of Faculty Member