

## Bio – Data



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I am Jyoti Singh, I studied M.Sc. Botany(Plant Pathology) and also completed my M. Phil (Taxonomy) dissertation entitled "Reassessment of Poaceae of Jabalpur" from Rani Durgavati University, Jabalpur (M.P.). For my Ph.D. research topic entitled Evaluation of fungi for management of *Parthenium hysterophorus* L." from Rani Durgavati University, Jabalpur (M.P.). March 1990 to March 1993 working as Technical Assistant and October 1994 to May 1997 working as Research Associate from Department of Biological Science Rani Durgavati Vishwavidyalaya Jabalpur (M.P.). May 1997 to May 1998 as Project Assistant and May 1999 to June 2008 as Senior Research Assistant and June 2008 to June 2014 as Research Officer under State Forest Research Institute, Jabalpur (M.P.) Present holding the post of Senior Research Officer. Research Work carried out in different forestry aspects. I have 25 years of research experience in Plant Pathological work, Environmental Impact Assessment studies, Aero-biological studies, Ecological survey, cultivation & conservation of medicinal and aromatic plants. I have also experience to conduct various (internally and externally funded) research projects as Principal - Investigator and Co- Principal Investigator

### Specialization

Plant Pathology, Plant Taxonomy, Environmental Impact Assessment studies, Aero-biological studies, Ecological survey, cultivation & conservation of medicinal and aromatic plants.

### Key Publications

1. Pandey, A.K. , **Mishra , Jyoti**, Rajak, R.C. and Hasija, S.K. (1992). Possibility of managing *Parthenium hysteriophorus* L. through *Sclerotium rolfsii* Sacc. *Nat. Acad. Sci. Letters* 15 (4):111-112
2. **Mishra , Jyoti**, Pandey, A.K. , Rajak, R.C. and Hasija, S.K. (1994). Microbial management of *Parthenium hysteriophorus* L. Host specificity of *Sclerotium rolfsii* Sacc. *Nat. Acad. Sci. Letters* 17 (9 & 10):169-173
3. Pandey, A.K. , **Mishra , Jyoti**, Rajak, R.C. and Hasija, S.K. (1994). Potential of indigenous strain of *Sclerotium rolfsii* Sacc. for the management of *Parthenium hysteriophorus* L. A serious threat to biodiversity in India R.C. Rajak and M.K. Rai (ed.) Herbal Medicine Biodiversity and Conservation Strategies International Book Distributers > Dehradun PP.104-138
4. **Mishra , Jyoti**, Pandey, A.K. and Hasija, S.K. (1995). Microbial Evaluation of

*Sclerotium rolfsii* Sacc as mycoherbicide for *Parthenium* factors affecting viability and virulence . Indian Phytopath 48(4)476-479

5. **Mishra , Jyoti**, Pandey, A.K. and Hasija, S.K. (1996). Microbial potential of *Sclerotium rolfsii* Sacc Against *Parthenium hysteriophorus* L. Histopathological studies **Indian Jour. Applied & Pure Biology**11 (2):73-77
6. **Mishra , Jyoti**, Pandey, A.K. and Hasija, S.K. (1996). Mycoherbicidal **potential of** *Sclerotium rolfsii* Sacc Against *Parthenium hysteriophorus* L. *factors* affecting in-vitro growth and sclerotium formation *J. Phytopathological Res.* 9(1): 19-24
7. Pandey, A.K. , **Mishra , Jyoti**, Rajak, R.C. and Hasija, S.(1998). Effect of inoculum on Mycoherbicidal potential of *Sclerotium rolfsii* Sacc Against *Parthenium hysteriophorus* L. *Jour. Mycol. & Plant Pathol.* 28 (3):284-287
8. Oommachan, M., Masih, S.K. and **Mishra , Jyoti (1990)**. Retrospects and prospects in Ethnobotanical studies on medicinal plants of Madhya Pradesh Proceedings of Symposium on "Medicinal and Aromatic Plants "held at State Forest Research Institute Jabalpur From 6-7 April 1990 pp. 74-80
9. Tiwari, K.P., Pandey, R.K. and **Mishra , Jyoti (1998)**. Wild medicinal plants and their ethenic value A case study of medicinally important plants growing in natural forests of Sitanadi Wild Life Sanctuary of Madhya Pradesh *Vaniki Sandesh* 11(3):16-32
10. Pandey, R.K. and **Mishra , Jyoti (1999)**. Study of Flora and Fauna in proposed submergence forests sites in Sondur Reservoir and its impact assessment on adjoining Sitanadi Wild Life Sanctuary and natural forest area of South and East forest Division of Raipur *Vaniki Sandesh* 23(2):8-22
11. Shrivastava J.L., Oommachan, M. and **Mishra , Jyoti (2000)**. New records and present position of Poaceae of Jabalpur *Jour. Economic and Taxonomic Botany* 24(1): 71-74
12. **Mishra , Jyoti**, A.K. Sharma and S.L. Wadera **(2000)**. Impact assessment of Sal Heart Wood Borer epidemic on the regeneration status of sal forest of Madhya Pradesh *Jour. Trop. Forestry* 16(4): 10-28
13. S.K. Tiwari, Kashyap ,M.K. , Ujjaini M.M. and **Mishra , Jyoti (2001)** Ootak samvardhan(Tissue culture) and kayak pravardhan (vegetative propagation ) taknik (technique) dwara Sagon (Teak)ka uttapadan (production) aaklan (estimation ) or shetra parikshan(field trial ) *Vaniki Sandesh* 25(2):1-11
14. Bhawani Singh, **Jyoti Singh**, S.K. Tiwari and A.A. Ansari (2003). Mass multiplication through stem branch cutting of Commiphora wightii an important medicinal plant. **Jour. Trop. Forestry** 19 (3&4):14-18
15. A.A. Ansari, S.K. Tiwari , Bhawani Singh, **Jyoti Singh** and Mohd Safeeq (2003) Successful rooting in stem cutting of *Coleus forskohlii* (Poir.) Brig Syn. *C. barbatus* (Andr.) Benth under mist condition *Vaniki Sandesh* 27 (1)10-18
16. Bhawani Singh, , S.K. Tiwari P.K. Shukla and **Jyoti Singh** and A.A. Ansari

- (2003) Seasonal rooting response in leafy stem cutting and petiole cutting of *Rauvolfia serpentina* under mist condition *Jour. Non Timber Forest Products* 12 (2 ) 61-64
17. O.P. Chaubey, P.K. Shukla and **Jyoti Singh(2006)**. Conservation status of wild medicinal plants in Satpura plateau of Madhya Pradesh *Vaniki Sandesh* 30 (1) 24-27
  18. O.P. Chaubey, Vijay Bahadur and **Jyoti Singh(2007)**. Conservation status of wild medicinal plants in Satpura plateau of Madhya Pradesh *Vaniki Sandesh* 31(3) 16-20-27
  19. O.P. Chaubey, **Jyoti Singh**, Kaushal Tiwari and P.K. Shukla(2009). Conservation status of wild medicinal plants in Satpura plateau of Madhya Pradesh *Vaniki Sandesh* 33(3) 18-23
  20. O.P. Chaubey, Ram Prakash , Jata Shankar and **Jyoti Singh (2005)**. Documentation of some ethnomedicinal plants of Madhya Pradesh and Chhattisgarh Proceedings of National; Seminar on Emerging Technology and Their application in Assessment Conservation and Management of Threatened wild medicinal plants and their habitats. Held at SFRI on 23-24 Feb. 2005 pp 66
  21. P.K. Shukla, O.P. Chaubey, Ram Prakash , **Jyoti Singh** and Jata Shankar (2005). An account of indigenous medicinal species planted arboretum of SFRI Jabalpur. Proceedings of National; Seminar on Emerging Technology and Their application in Assessment Conservation and Management of Threatened wild medicinal plants and their habitats. Held at SFRI on 23-24 Feb. 2005 pp 44
  22. O.P. Chaubey, **Jyoti Singh**, Kaushal Tiwari and P.K. Shukla(2009). Conservation status of wild medicinal plants in Satpura plateau of Madhya Pradesh *Vaniki Sandesh* 33(3) 18-23
  23. **Jyoti Singh**, S.S. Gaur and C.P. Rai (2011). Disease survey of some important medicinal and aromatic plants of medicinal plant nurseries *Vaniki Sandesh* June 2011 pg no. 22-23
  24. **Jyoti Singh**, Parvez Jalil, Anupama Goswami and C.P. Rai (2011). *Alternaria alternata* and *Curvularia lunata* causing leaf spot on *Stevia rebaudiana* *Vaniki Sandesh*, Oct.- Dec. year 2, no.(4): 45-48
  25. **Jyoti Singh**, Parvez Jalil and Ram Prakash (2012 ) Diseases of *Rauvolfia serpentina* , *Vaniki Sandesh*, Oct.- Dec. year 3, no.(4): 09-11 *Vaniki Sandesh* (2013) July - Sept. 2013 pp. 11-14
  26. **Jyoti Singh**, Anupama Goswami and Parvez Jalil, (2013). Diseases of medicinal plant **Tulsi (*Ocimum sanctum*) L.** in different seasons *Vaniki Sandesh* July Sept. 2013 year 4 (3) pp. 11-13)
  27. **Jyoti Singh**, Krishna Kumar Patel and Parvez Jalil (2014). Root rot disease of *Shorea robusta* (Sal) caused by *Scytalidium lignicola* Pesante *Vaniki Sandesh* vol 5 (1) pp. 1-5

28. **Jyoti Singh**, Anupama Goswami & Ram Prakash(2014)- Leaf spot disease of Achar caused by Pestalotiopsis versicolor(speg) *Vaniki Sandesh* vol 5(2)April-June 2014pp:14-17
29. **Jyoti Singh**, Anupama Goswami & Ram Prakash (2014)- Antifungal activity of plant extract against Alternaria alternata the causal agent of leaf spot disease of Andrographis paniculata WALL. EX. NEES. Communicated

#### **IBG NEWS [01]**

- **Mishra, Jyoti**, Hasija, S.K. and Pandey, A.K. (1993). International Bioherbicide Group (IBG) Vol 2 No 2 pp 6

#### **BULLETIN [01]**

- Tiwari, K.P., Pandey, R.K. Negi C.M.S. **Mishra, Jyoti**, Judah S.D. and Saini S.K. (1998). Biological diversity of State Forest Research Institutes Premises Division of Ecology and Biodiversity SFRI Bulletin No. 34 pp 54

#### **FIELD MANUAL [02]**

- मध्यप्रदेश के वनों में पायी जाने वाली महत्वपूर्ण दुर्लभ प्रजातियों की उपयुक्त रोपणी तकनीक का विकास – मार्गदर्शिका।
- खमेर शीर्ष सूखन रोग (Top Drying) एवं प्रबंधन तकनीक मार्गदर्शिका।