

## Brief CV

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**Dr. Ishwar Singh**, a trained mycologist, has been teaching Botany and researching in the field of Microbiology with special focus on characterization of plant pathogens and their biological control for 20 years. To further strengthen his research skills he visited Department of Plant Pathology and Microbiology, Iowa State University of Science and Technology, Ames, Iowa, USA (2014-15) as Visiting Faculty and learnt molecular techniques and various tools of Bioinformatics that are used in characterization of fungal organisms, and described two new fungal species in Genus, *Dissoconium* namely *D. compactum* Singh Ishwar, Batzer J.C. & Mayfield D.A. (MB 812286) and *D. obtusiforme* Singh Ishwar, Batzer J.C. & Mayfield D.A. (MB 812285).

Currently, he has been working as Assistant Professor in Department of Botany at Hansraj College, University of Delhi, Delhi (India) since 2009; earlier to this, he worked in Department of Botany at M.B. (P.G.) College, Chaudhary Charan Singh University, Meerut (India) for 8 years.

He completed his bachelor's degree (with honours) and master's degree in Botany from University of Delhi, Delhi in 1995 and 1997, respectively. He received his PhD on thesis "Biological control of *Aspergillus flavus* and aflatoxins: A comparative study of toxigenic and non-toxigenic strains" in 2002 from University of Delhi, Delhi.

He has published 30 publications on various topics pertaining to his field of specialization and successfully completed three research projects funded by various agencies of Government of India. He is a member of the editorial board of journals, namely Research & Reviews: Journal of Herbal Science and International Journal of Applied and Current Research.

He has been recipient of several honors and awards such as stood first in order of merit in the college during B. Sc. (H) course (1992-95), National Fellowship for M. Sc. Course (1995-1997), Junior Research Fellowship (JRF) for Ph. D. (1997-1999), Senior Research Fellowship (SRF) for Ph. D. (2000-2001), UGC Research Award (2013) and Raman Research Fellowship (2014-15).

He has participated in several conferences and has been instrumental in organizing several conferences with special mention of two in the field of nanotechnology i.e., National Conference on Relevance of Nanotechnology in Biology, organized by Department of Botany and Department of Zoology, Hansraj College, University of Delhi on March 1, 2013 and Indo-Portuguese Workshop on Emerging Trends of Nanotechnology in Chemistry and Biology, organized by Department of Chemistry, Hansraj College and Deshbandhu College, University of Delhi in association with Centro de Química da Madeira University da Madeira, PORTUGAL, from February 12th to 13th, 2016.

### Publications:

1. Singh VP, Gupta S, **Singh I**, Gupta R (1998) Prevention, elimination and detoxification of aflatoxins - an overview. Ind J Aerobiol 11:6-15 (ISSN No. 0971-1546)
2. **Singh I**, Singh VP (2000) Antifungal properties of aqueous and organic solution extracts of

- seed plants in *Aspergillus flavus* and *A. niger*. *Phytomorphology* 50:151-157 (ISSN No. 0031-9449)
3. **Dedha IS** (2001) Plight of education. *Gyan Jyoti* 2: 78-80.
  4. **Dedha IS** (2002) A report on the mangrove forest of Pichavaram, Tamil Nadu. *Gyan Jyoti* 3: 37-39.
  5. **Singh I**, Singh VP (2002) Comparative studies on growth patterns and metabolic status of aflatoxin-producing and non-producing strains of *Aspergillus flavus*. *Curr Sci* 82:1425-1426 (ISSN No. 0011-3891)
  6. **Singh I**, Singh VP (2003) A report on Strain- specific and toxigenicity- associated blastospore formation in *Aspergillus flavus*. *Phytomorphology* 53: 331-333. (ISSN No. 0031-9449)
  7. **Singh I** (2003-05) National integrity: A holistic approach. *Gyan Jyoti* 4-5: 44-47.
  8. **Singh I**, Singh VP (2005) Effects of plant extracts on mycelial growth and aflatoxin production by *Aspergillus flavus*. *Indian J microbiol* 45: 139-142. (ISSN No. 0046-8991)
  9. Kumar R, **Singh I**, Singh VP (2005) Degradation of aflatoxins by peroxidase isoenzymes of toxigenic and non-toxigenic strains of *Aspergillus flavus* at different temperatures. *Phytomorphology* 55:289-295. (ISSN No. 0031-9449)
  10. **Singh I** (2006) The challenging prions. *Gyan Jyoti* 6: 37-38.
  11. Singh VP, Singh L, **Singh I**, Kumar R (2006) Microbial degradation of hazardous dyes. In: *Current Concepts in Botany* eds. Mukerji KG, Manhorachary C, I K International Publishing House, New Delhi, p. 273-285. (ISBN No. 81-88237-34-7)
  12. **Singh I**, Singh VP (2006) An update on mycotoxins: Methods of detection and management. In: *Biotechnology and Biology of Plants*. ed. Trivedi PC, Aavishkar Publishers, Jaipur, p. 280-304. (ISBN No. 8179101568)
  13. **Singh I**, Singh VP (2007) Phosphatases in aflatoxin- producing and non-producing strains of *Aspergillus flavus* Link. *Curr Sci* 93: 1362-1363. (ISSN No. 0011-3891)
  14. **Singh I** (2007) Blindness and its major causes in India. *Gyan Jyoti* 7: 19-21.
  15. **Dedha IS** (2010) Yuva varg ki duvidha. *Yuva Pravaha* 1: 15-16.
  16. **Singh I**, Singh VP (2012) Blastospore/chlamyospore as a potential character in identification of aflatoxin producing and non-producing isolates of *Aspergillus flavus*. *VEGETOS* 25: 361-366. (ISSN No. 0970-4078)
  17. **Singh I** (2013) Organic evolution. E-lesson in Botany under FYUP. University of Delhi. Delhi [https://docs.google.com/file/d/0B0Izh6GcIA\\_DWUFMQkg3Vng1ZUU/edit?pli=1](https://docs.google.com/file/d/0B0Izh6GcIA_DWUFMQkg3Vng1ZUU/edit?pli=1)
  18. **Singh I** (2013) Biological classification. E-lesson in Botany under FYUP. University of Delhi. Delhi [https://docs.google.com/file/d/0B0Izh6GcIA\\_Dc2dyV1VKbXpwd1U/edit?pli=1](https://docs.google.com/file/d/0B0Izh6GcIA_Dc2dyV1VKbXpwd1U/edit?pli=1)
  19. Singh VP, Kumar R, **Singh I** and Srivastava S (2013) Microsome technology as a potential bioremediation option for health and environmental protection. *J Environ Res Develop* 8: 27-32. (ISSN No. 0973-6921)
  20. **Singh I** (2016) Nanotechnology: applications and risks in human-health sector. *J Mat NanoSci* 3(1): 17-19.
  21. **Singh I** (2016) Crude extract preparation and its screening for various groups of phytochemicals. Workshop Manual on Ethnobotany, Hansraj College, September 16-17. Pp. 14-24. [http://vle.du.ac.in/file.php/548/Ethnobotany\\_Manual\\_14th\\_September\\_2016.pdf](http://vle.du.ac.in/file.php/548/Ethnobotany_Manual_14th_September_2016.pdf)
  22. **Singh I** (2017) Antimicrobials in higher plants: classification, mode of action and bioactivities. *Chem. Bio. Lett.* 4(1): 48-62.

23. Thakur P and **Singh I** (2017) An overview of various threats to biotic-pollination in flowering plants. In: *Advances in Life Sciences*. eds. Dutt S, Tyagi A, Bhati HP, Singh H, SR Scientific Publications, Agra, pp.240-255.
24. **Singh I** and Giri B (2017) Arbuscular Mycorrhiza Mediated Control of Plant Pathogens. In: *Mycorrhiza - Nutrient Uptake, Biocontrol, Ecorestoration*, Springer, Cham, pp.131-160. [https://doi.org/10.1007/978-3-319-68867-1\\_7](https://doi.org/10.1007/978-3-319-68867-1_7)
25. Thakur P and **Singh I** (2018) Biocontrol of soilborne root pathogens: an overview. In: *Root Biology, Soil Biology*. Springer pp. 181-220. [https://doi.org/10.1007/978-3-319-75910-4\\_7](https://doi.org/10.1007/978-3-319-75910-4_7)
26. Thomas L and **Singh I** (2019) Microbial Biofertilizers: Types and Applications In: *Biofertilizers for Sustainable Agriculture and Environment*, Soil Biology. Springer. [https://doi.org/10.1007/978-3-030-18933-4\\_1](https://doi.org/10.1007/978-3-030-18933-4_1)
27. Thomas L and **Singh I** (2020) Microbe-Mediated Biotic Stress Signaling and Resistance Mechanisms in Plants. In: *Plant Stress Biology*. Springer. [https://doi.org/10.1007/978-981-15-9380-2\\_10](https://doi.org/10.1007/978-981-15-9380-2_10)