

Dr Meenu Gupta

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Specialization: Vegetable and Spice Pathology

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Ongoing Research Projects

- Molecular and agronomic evaluation of *in vitro* developed tolerant tomato somaclones against devastating disease Fusarium wilt by DEST, Shimla (Co-PI).

Important Research Publications

- Saini Manisha, Gupta Meenu, Sagar Vinay, Chauhan A, Saini R and Kumar Gaurav. 2025. Molecular identification and management of *Ralstonia pseudosolanacearum* (Phylotype I) causing bacterial wilt of tomato using copper oxide nanoparticles in Himachal Pradesh, India. *Crop Protection* 191 (2025): 107192 (8 pages). <https://doi.org/10.1016/j.cropro.2025.107152>
- Saini M, Sagar V, Gupta M and Sharma SK. 2025. Identification, characterization and genetic diversity of *Ralstonia pseudosolanacearum* species complex causing bacterial wilt of tomato in Himachal Pradesh, India. *Physiological and Molecular Plant Pathology* Vol 138 <https://doi.org/10.1016/j.pmpp.2025.102684>
- Kumar S, Singh A, Gupta M, Singh Bist CM, Gupta B, Sharma S. 2024. Isolation, Identification and Multi-Locus Sequence Typing of *Phytophthora capsici* from Capsicum fields and its Cross-Infectivity in Different Crop Species. *Physiological and Molecular Plant Pathology*. <https://doi.org/10.1016/j.pmpp.2024.102413>
- Shaunak I, Sharma R, Sharma P, Gupta M and Bhardwaj RK. 2023. Developing resistance against soil-borne Fusarium pathogen causing tomato wilt through *in vitro* cell line selection. *Plant Cell, tissue and Organ Culture* January 12, 2023.
- Tyagi N, Sharma HR, Dogra RK and Gupta M. 2023. Genetic control, heterobeltiosis, dominance estimates of fruit yield and diseases severity traits of gynoeocious cucumber in the foot hills of Himalaya. *Indian Journal of Agricultural Sciences* 93 (1): 19–23
- Sharma A, Shukla A and Gupta M. 2023. Effect of bioagents on cucumber seed mycoflora, seed germination, and seedling vigour. *Scientific Reports* 13:6052
- Shukla A, Sharma D, Sharma M, Tarafdar A and Gupta M. 2022. First report of *Fusarium equiseti* causing crown and root rot of cucumber in India. *Journal of Plant Pathology* <https://doi.org/10.1007/s42161-022-01075-5>.
- Palial S, Verma SC, Sharma PL, Chandel RS, Kumar Rakesh, Gupta M, Sharma N and Sharma P. 2022. Biology, predatory potential and growth parameters of the syrphid fly, *Scaeva pyrastris* (L.) (Diptera: Syrphidae) feeding on the cabbage

aphid, *Brevicoryne brassicae* (L.). *Egyptian Journal of Biological Pest Control* 32:134-142. <https://doi.org/10.1186/s41938-022-00632-5>.

- Leharwan M, Gupta M, Chauhan A, Shukla A and Kumar U. 2021. Cultural, morphological, molecular and pathological characterization of *Protomyces macrosporus* Unger causing stem gall of coriander. *Indian Journal of Agricultural Sciences* 91 (11): 1561-65
- Kumari R, Kumar R and Gupta M. 2020. Estimation of epistasis and genetic components of variance for different traits in cucumber (*Cucumis sativus*). *Indian Journal of Agricultural Sciences* 91(7): 966–969
- Gupta M, Leharwan M and Bharat NK. 2019. Efficacy of fungicides against *Protomyces macrosporus* causing stem gall of coriander. *Pesticide Research Journal* 31(2): 242-248
- Gupta M, Bharat NK, Chauhan A and Vikram A. 2013. First report of bacterial leaf spot of coriander caused by *Pseudomonas syringae* pv. *coriandricola* in India. *Plant Disease* 97(3):418
- Shanmugam V, Dohroo NP, Gupta M, Gangta V and Dohroo A. 2010. First report of *Pythium splendens* on ginger. *Journal of Plant Pathology* 92(4): S4109.

Awards & Recognitions

- Best poster award in 7th International Conference on “Phytopathology in achieving UN sustainable Development Goals” of Indian Phytopathological Society, New Delhi, held at IARI, New Delhi (January 16-20, 2020)
- Councillor (North Zone) of Indian Society of Plant Pathologists, Ludhiana for two years (2018-2020)
- Received ‘Scroll of Honour’ from Indian Phytopathological Society, New Delhi in 2019 for commendable work as Zonal Councillor of Northern Zone of the society in 2018-19.
- Third Best poster award in Annual Meeting of the Indian Society of Plant Pathologists, Ludhiana and National Symposium on “Plant Pathology in the Challenging Global Scenario” held at NBPGR, New Delhi (February 27-28, 2009)
- Travel Grant by Mahyco Foundation for young researchers for attending 6th International workshop on Plant Growth Promoting Rhizobacteria (October 5-10, 2003) held at IISR, Calicut, India University
- Gold Medal and Certificate of Honour in Ph.D.
- Gold medal from “Himotkarsh”- an academy for Literature, Culture and Public Welfare, Una, Himachal Pradesh for excellence in academics as Topper in Ph.D. in College of Horticulture, Nauni.
- University Merit Scholarship in M.Sc.
- College Certificate of Merit in B.Sc.