

Dr Dharmesh Gupta

Principal Scientist

Specialization: Plant Pathology (Mushroom)

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Ongoing Research Projects

- All India Coordinated Research Project on Mushrooms funded by ICAR for ₹ 5-6 lakhs per year, Long Term Project (Principal Investigator).
- RKVY project on “Use of underexploited medicinal mushrooms for horticultural diversification and entrepreneurship development” for Rs. 40 lakhs as PI during the year 2024-25. (Principal investigator)
- Experiential Learning project “Skill enhancement on speciality mushroom cultivation, spawn production and preparation of value added mushroom products for undergraduate students” amounting to Rs. 35 lakhs for the year 2024-25 (Co-PI)
- Validation and dissemination of technology as an enterprise for production of oyster mushroom using apple pomace for upliftment of rural economy of Himachal Pradesh funded by Himcoste Shimla for ₹ 4.7 Lakhs from 2021 to 2023 (Co-PI).
- Cultivation of Shitake and other Medicinal Mushrooms funded by Govt. of Himachal Pradesh for ₹ 8.50 lakhs from May 2023 to May 2024 (Co-PI).

Important Research Publications

- Annepu SK, Sharma VP, Barh A , Kamal S, Shirur M , Kumar S , Bairwa RK, Gupta S, Gupta M, Dutta U, Summuna B, **Gupta D** and R Kumar. 2023. Influence of Heat Treatment and Solid-State Fermentation on the Lignocellulosic Fractions of Substrates Supporting *Lentinula edodes* (Berk.) Pegler Cultivation: Implications for Commercial Production. *Fermentation* **9**: 130. [https://doi.org/ 0.3390/ fermentation 9020130](https://doi.org/10.3390/fermentation9020130)
- Bhargav P, **Gupta D**, Jarial RS, Sharma N and Thakur R. 2023. Fungal and Bacterial contaminants associated with the spoilage of mushroom spawn. *International Journal of Plant and Soil Science*. 35(6)
- Nath Manoj , Anupam Barh , Annu Sharma , Parul Verma , Rakesh Kumar Bairwa , Shwet Kamal , Ved Prakash Sharma , Sudheer Kumar Annepu , Kanika Sharma , Deepesh Bhatt , Pankaj Bhatt , **Dharmesh Gupta** and Akoijam Ratankumar Singh. 2023. Identification of Eight High Yielding Strains via Morpho-Molecular Characterization of Thirty-Three Wild Strains of *Calocybe indica* .*Foods* 2023, 12, 2119. <https://doi.org/10.3390/foods12112119>
- **Gupta Dharmesh**, Thakur Rajneesh, Pal Joginder, Pullareddy V, Jandaik S and Annu Sharma. 2022. Compost and casing of mushroom in Indian Perspective: A brief review. *International Journal of Environment and Climate Change* 12(11): 989-997
- Thakur Rajneesh , **Dharmesh Gupta** , Shwet Kamal , Savita Jandaik , Anjali Chauhan , Rana Neerja and Anju Sharma .2025. Dynamics of microbial enzymes in the compost substrates during button mushroom production. *Journal of Advances in Biology & Biotechnology* Volume 28, Issue 7, Page 648-659, 2025; Article no. JABB.138633 ISSN: 2394-1081
- Thakur Abha, **Dharmesh Gupta**, Anil Kumar, Shwet Kamal, Diksha Thakur, Pratibha and Reetu. 2024. Physico-chemical properties and characterization of thermophilic flora from button mushroom compost prepared using SMS of different mushroom as supplement .

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- Pullareddy V, **Gupta D**, Annepu Sudhir, Kumar Satish and Thakur Manisha. 2021. Yield potential and antioxidant activity of Indian *Ganoderma* strains. *Sydowia* **73**:209-215.
- Pathania S, Sharma N and **Gupta D**. 2017. A Study on Cultivation and Yield Performance of Oyster Mushroom (*Pleurotus ostreatus*) on Wheat Straw Mixed with Horticultural Waste (Apple Pomace) in Different Ratio and their Nutritional Evaluation. *International Journal of Current Microbiology and Applied Sciences* **6**(8): 2940-2953.
- Sharma M, Suman BC and **Gupta D**. 2016. Development of *Agaricus bisporus* hybrids and their evaluation for higher yield. *Indian Journal of Horticulture* **73**(4): 550-556
- Sharma M, Suman BC and **Gupta D**. 2014. Characterization of Single Spore Isolates of *Agaricus bisporus* (Lange) Imbach Using Conventional and Molecular Methods. *Current Microbiology* **69**: 474-483
- Mehta S, Jandaik S and **Gupta D**. 2014. Effect of Cost-Effective Substrates on Growth Cycle and Yield of Lingzhi or Reishi Medicinal Mushroom, *Ganoderma lucidum* (Higher Basidiomycetes) from Northwestern Himalaya (India). *International Journal of Medicinal Mushrooms* **16**(6): 585–591
- **Gupta D**. 2011. A new report on witch's broom of wild fig (*Ficus palmata*). *Journal of Mycology and Plant Pathology* **41**(3):474-475.
- **Gupta D**, Thakur PD and Sharma Pawan. 2009. Natural occurrence of leaf curl virus in Himachal Pradesh. *Journal of Mycology and Plant Pathology* **39**(2):275-277
- **Gupta D** and Sharma JN. 2005. Chemical control of powdery mildew of apple in warmer climates of Himachal Pradesh, India. *Acta Horticulturae* No.696:355-357.

Books

Chandel Sunita, **Gupta Dharmesh** and Manica Tomar. 2024. Progressive Plant Pathology. Elite Publishing House 247p.

Awards & Recognitions

- Awarded Certificate of Honours for obtaining outstanding OGPA in Ph.D.
- Visited “**The Institute for sustainable Plant Protection (IPSP)-CNR, Turin, Italy** w.e.f. 12-26 Sep. 2023 .
- Research paper entitled “*Development of Agaricus bisporus hybrids and their evaluation for higher yield*” authored by Manju Sharma, B.C. Suman and D Gupta published in *Indian Journal of Horticulture*(2016) **73**(4): 550-56 was selected for Best Research Paper Award-2016 by the prestigious “ The Horticultural Society of India (www. hsi1942.in)”.