

**Dr. Rashmi Singh**

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**Designation: Senior Assistant Professor**

**Department: Botany, K. N. Govt. PG College, Gyanpur, Bhadohi, U.P. 221304**

**Qualification: M.Sc. (Botany), Ph.D, NET**

**Date of Birth: 06/04/1981**

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**Area of Interest/ Fields of Specialization**

- Knowledge of isolation and characterization of biocontrol agents viz., *Trichoderma*, *Gliocladium*, *Penicillium*, *Aspergillus* etc. and plant growth promoting rhizobacteria (PGPRs), testing their biological efficacy against soil-borne phytopathogens.
- Knowledge of spawn production technology in mushroom cultivation.

**Awards Received**

- Received ISCA Young Scientist Award in Plant Science Section (2011-2012).
- Gold Medalist in M.Sc. (Botany) 2002.

**Committee Member**

- U.P. State Member of Botany PG Syllabus committee in NEP-2020
- NAAC Coordinator of the College
- Working as ARIIA Nodal Officer
- Institute Innovation Council, President
- Innovation Ambassador
- Worked as Member of District Science Club, Bhadohi (2017-19)
- Worked as Expert Member in District Clean Ganga Mission, Bhadohi (2018-19)
- Worked as Expert member of District Children Science Congress, Bhadohi (2018-19)
- District Co-ordinator of Outreach Programme in Remote Sensing organized by ISRO.

**Minor Research Project**

- “Biocontrol potential of ecofriendly *Trichoderma* species for the management of collar rot of chickpea caused by *Sclerotium rolfsii*”, sponsored by UGC (2011), Rs.1,70,000/ ,  
**Completed**

**Other Activities**

- Successfully completed Online Refresher Course organized By **ARPIT (SWAYAM)** in “**Best Practices in Innovation and Skill Development**”.
- Organized Three national conferences in the capacity of organizing secretary.
- Organized workshop on Mushroom Cultivation
- Successfully completed Refresher course in Life Science organized by UGC-HRDC, Ranchi University, Ranchi.
- Participated in the **Summer School** “Horticulture based crop diversification options for livelihood security in tribal areas” organized by **ICAR-RCER Ranchi** from 21.05 2013 to 10.06.2013.
- Successfully completed the **58th orientation course** held at **UGC-Academic Staff College, BHU, Varanasi.** (1-28 Sept. 2011).

- Organized State level Rover/Ranger programme as organizing secretary (2012-2013).

**Research Publications:    Research article:    International: 13    National: 01**

1. **Rashmi Singh, M. P. Singh and A. K. Mishra. 2021.** Antifungal potential of some essential oil as fumigant against *Aspergillus flavus*. International Journal of Agricultural technology
2. **Rashmi Singh and R.S.Upadhyay.2018.** Mentha and citrus oil against post harvest deterioration of Wheat during storage. International Journal of Agricultural technology.
3. **Rashmi Singh. 2018.** A rhizosphere competent strain of *Trichoderma* against dry root rot of Blackgram. International journal of Research and Analytical Reviews.
4. **Rashmi Singh, S. Maurya and R.S. Upadhyay. 2016.**The improvement of competitive saprophytic capabilities of *Trichoderma* species through the use of chemical mutagens. **Brazilian J of Microbiology.**
5. **Rashmi Singh, S. Maurya and R.S. Upadhyay. 2012.** Antifungal potential of *Trichoderma* species against *Macrophomina phaseolina*. **Journal of Agricultural Technology** Vol. 8(6): 1925-1933.
6. Amitabh Singh, Sudarshan Maurya, **Rashmi Singh** and U.P. Singh. **2012.** Antibiotic potential of plant growth promoting rhizobacteria (PGPR) against *Sclerotium rolfsii*. **Archives of Phytopathology and Plant Protection** Vol. 45, No. 14:1655–1662.
7. Amitabh Singh, S. Maurya, **Rashmi Singh** and U.P. Singh. 2011. Antifungal efficacy of some ethyl acetate extract fractions of *Cyperus rotundus* rhizomes against spore germination of some fungi. **Archives of Phytopathology and Plant Protection** Vol. 44, No. 20: 2004–2011.
8. S.L. Yadav, A.K Mishra, P.N. Dongre and **Rashmi Singh**. 2011. Assessment of fungitoxicity of phylloplane fungi against *Alternaria brassicae* causing leaf spot of mustard. **Journal of Agricultural Technology** 2011 Vol. 7(6): 1823-1831.
9. **Rashmi Singh, S. Maurya and R. S. Upadhyay. 2010.** Improvement of antagonistic capability of *Trichoderma harzianum* by UV-Irradiation for management of *Macrophomina phaseolina*. **Archives of Phytopathology and Plant Protection** Vol. 43, No. 16: 1579-1588.
10. S. Maurya, **Rashmi Singh** And U. P. Singh, **2010.** Antifungal activity of ethanolic extract of Archu (*Rheum emodi*) on powdery mildew (*Erysiphe cichoracearum*) and its role in induction of resistance in balsam (*Impatiens balsamania*) **Archives of Phytopathology and Plant Protection** Vol. 43, No. 16:1589-1595.
11. S. Maurya, U. P. Singh, **Rashmi Singh**, A. Singh, H. B. Singh.**2010.** Role of air and light in sclerotial development and basidiospore formation in *sclerotium rolfsii*. **Journal of plant protection research** Vol. 50, No. 2.
12. S. Maurya, **Rashmi Singh**, D.P. Singh, H.B. Singh, U.P. Singh, J.S. Srivastava.**2008.** Management of collar rot of chickpea (*Cicer arietinum*) by *Trichoderma harzianum* and plant growth promoting rhizobacteria **Journal of Plant Protection Research** 48, 347-354.
13. Maurya S., **Rashmi Singh**, D. P. Singh, H. B. Singh, J. S. Srivastava and U. P. Singh. **2007.** Phenolic compounds of *Sorghum vulgare* in response to *Sclerotium rolfsii* infection. **Journal of Plant Interaction**, 2:25-29.

**Book Chapter Published: 01**

1. **Rashmi Singh** and Sudarshan Maurya. 2021. Blast Disease of Rice: Evolution and adaptation in context of changing climate. In Blast Disease of Cereal Crops. Pg no. 125-134, ISBN: 978-3-030-60585-8. Published by Springer. <https://doi.org/10.1007/978-3-030-60585-8>
2. **Rashmi Singh**. 2020. Mushroom: An approach to sustainable packaging material. In Renewable Energy Sources: An Assessment in Environmental Scenario. Pg no. 164-170. ISBN: 978-81-949793-0-2. Published by Bharti Publication, India
3. **Rashmi Singh**. 2019. Adaptation of Trichoderma Species to various carrier materials for mass multiplication, formulation development and delivery system for management of soil borne phytopathogens. In Contemporary Climatic Issues and Challenges. Pg no. 257-273. ISBN No. 978-81-7975-959-2.

**Conferences Attended: International: 04 National: 20**