

Name: Dr. Nitish Rattan Bhardwaj
Designation: Scientist (Plant Pathology)
Education: Ph.D. (Plant Pathology)
Date of Joining ICAR: 05/07/2016
Date of Joining DRMR: 01/09/2022
Email: nitish.bhardwaj@icar.gov.in ; nitish.rattanbhardwaj@gmail.com
Phone: 05644-260379/260419; **Ext:**



1. **Date of Birth:** 14 December, 1988
2. **Education Qualification:** Ph.D. (Plant Pathology), GBPUA&T, Pantnagar (2017); M. Sc. (Mycology and Plant Pathology), Banaras Hindu University, Varanasi (2013); B.Sc. (Agriculture), CSKHPKV, Palampur (2010)
3. **Joining Date in ICAR:** 05/07/2016
4. **Joining Date in DRMR:** 01/09/2022
5. **Discipline/Specialization:** Plant Pathology
6. **Research Experience:** 6 years
7. **Training/advance exposure in the area of work :**
 - Obtained training on “Simulation Modeling for Plant disease Epidemiology” organized by INRA, France at GBPUA&T, Pantnagar.
 - Obtained training on “Introduction to Entomopathogenic nematodes” at NIPHM, Hyderabad from 23-25 July, 2018
 - Obtained training on “Meta-Omics based Methods and Techniques for understanding Microbial Community Functions” from 10-19th December, 2019 at NBAIM, Mau.
8. **Contribution to the Scientific advancement**
 - Developed disease forecasting models in different forage crops (Powdery mildew in Oat; Gray leaf spot and Zonate leaf of Sorghum; Crown rot of Egyptian clover).
 - Developed integrated disease management strategies for management of blast disease of forage pearl millet; Powdery mildew and crown rot of red clover; foliar diseases of sorghum.
 - Developed integrated biocontrol strategy involving *Trichoderma*-Chitosan combination for management of Stem rot of Egyptian clover.
 - Deposited >50 gene sequences of different microorganisms associated with forage crops in NCBI GenBank database.
 - Involved in development of Dinanath grass variety JHD 19-4.
9. **Current Research Projects & Future planning of research**

Development of genetic and genomic resources in *Brassica juncea*-*Albugo candida* host pathosystem

10. Awards/ Recognition's:

- Best Team award at ICAR-IGFRI, Jhansi 60th Foundation day during 2021.
- Best poster award in National Symposium on “Forage and livestock based technological innovations for doubling farmers' income” held at “UAS, Dharwar during 13-14 December, 2018.
- B.H.U. medal for securing first position at M.Sc. (Ag.) Mycology and Plant Pathology.
- Prof. U.P. Singh gold medal for securing first position at M.Sc. (Ag.) Mycology and Plant Pathology.
- **Fellowships:** ICAR-JRF (Plant Sciences); ICAR-SRF; DST-INSPIRE fellowship.

11. Publication (Research Paper best 10)

- i. Rana M, **Bhardwaj N R**, Gajghate R, Kumar N, Verma R, Saini R P, Ahmad S, Roy A K, Chandra A. 2022. First report of *Curvularia penniseti* causing leaf blight of Bajra Napier hybrid grass in India. *Plant Disease*. <https://doi.org/10.1094/PDIS-05-22-1148-PDN>. (NAAS rating:10.44).
- ii. **Bhardwaj, N.R.**, Atri, A., Banyal, D.K., Dhal, A. and Roy, A. K. (2022). Multi-location evaluation of fungicides for managing blast (*Magnaporthe grisea*) disease of forage pearl millet in India. *Crop protection*. 159: 106019. <https://doi.org/10.1016/j.cropro.2022.106019>. (NAAS rating: 9.03).
- iii. **Bhardwaj, N.R.**, Banyal, D.K. and Roy, A. K. (2022). Integrated management of crown rot and powdery mildew diseases affecting red clover (*Trifolium pratense* L.). *Crop protection*. 156: 105943. <https://doi.org/10.1016/j.cropro.2022.105943>. (NAAS rating: 9.03).
- iv. Atri, A., Banyal, D.K., **Bhardwaj, N. R.** and Roy, A.K. (2022). Exploring the integrated use of fungicides, bio-control agent and biopesticide for management of foliar diseases (anthracnose, grey leaf spot and zonate leaf spot) of sorghum, *International Journal of Pest Management*. <https://doi.org/10.1080/09670874.2022.2039799>. (NAAS rating: 7.76).
- v. **Bhardwaj, N.R.**, Atri, A., Rani, U. Banyal, D.K. and Roy, A. K. (2021). Weather-Based models for predicting risk of Zonate Leaf Spot Disease in Sorghum. *Tropical Plant Pathology*. 46, 702–713 (2021). <https://doi.org/10.1007/S40858-021-00461-1>. (NAAS rating: 8.48).
- vi. **Bhardwaj, N.R.**, Banyal, D.K. and Roy, A. K. (2021). Prediction model for assessing powdery mildew disease in common Oat (*Avena sativa* L.). *Crop protection*. 146: 105677. <https://doi.org/10.1016/j.cropro.2021.105677>. (NAAS rating: 9.03).
- vii. Chauhan, J.S., Chand, S., Choudhary, P.R., Singh, K.H., Agrawal, R.K., **Bhardwaj, N.R.**, Roy, A.K. (2021). A scenario of breeding varieties and seed production of forage crops in India. *Indian Journal of Genetics and Plant Breeding*. 81 (3): 343-357. <http://dx.doi.org/10.31742/IJGPB.81.3.1>. (NAAS rating: 7.33).

- viii. **Bhardwaj, N.R.**, Atri, A., Rani, U. And Roy, A.K. (2021). A Logistic Regression Model for Predicting *Sclerotinia* Stem Rot in Egyptian Clover (*Trifolium alexandrinum* L.). *Legume Research*. 10.18805/LR-4492. (NAAS rating: 6.67).
- ix. Koli, P. and **Bhardwaj, N.R.** 2018. Status and use of pesticides in forage crops in India. *J.Pestic. Sci.* 43(4): 225-232. (NAAS rating: 8.52).
- x. Atri, A., **Bhardwaj, N.R.**, and Roy, A. K. (2022). Field efficacy of different eco-friendly disease control agents against Maydis leaf blight in forage maize. *Indian Phytopathology*. <https://doi.org/10.1007/s42360-022-00499>. (NAAS rating: 5.95).

12. Other information:

Google Scholar: <https://scholar.google.com/citations?user=qT4jbWEAAAAJ&hl=en>