Name: Dr Neelam Bhardwaj
Designation: Scientist(Plant Breeding)
Department: Genetics& Plant Breeding
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Field of Specialization : Genetics& Plant Breeding

Research interests:

- Development of high yielding , disease resistant and bio fortified varieties of Rice
- Development of high yielding fodder varieties for different agro ecological zones of Himachal Pradesh

Educational Qualification: Ph.D. (Plant Breeding)

Employment Record

Designation	Nature of work	Organization	Professional experience
Scientist	• Breeding of underutilized crops • Breeding organic input responsive varieties • Breeding early maturing, high yielding and disease resistant varieties of Rice • Breeding high yielding fodder varieties for different agro ecological zones of Himachal Pradesh	CSKHPKV, Palampur	PI , AICRN on Potential Crops in the Deptt. of Organic & Natural Farming from 2009-2019 Rice Breeder in AICRP on Rice at RWRC, Malan from 2019-2023 Associated in AICRP on Fodder Crops

Research Projects handled	As PI : 6, As Co-PI: 10

Research Publications: Total publications published in journals = > 40

Five best publications in last 5 years

1. Neelam Bhardwaj and Tanuja Kapoor.2022. C rossability barriers in inter specific hybridization of ricebean [*Vigna umbellata (*Thunb.) Ohwi & Ohashi] with other *Vigna* species. Legume Research .45:1484-1489
2. Praveen kumar A and Neelam Bhardwaj.2022. Morphological characterization of red rice germplasm of Himachal Pradesh and identification of potential genotypes for yield and biotic stress tolerance. Journal of Cereal Research 14(1):63-75
3. Ajay Kumar Bhardwaj, Deepika Rajwar, Nirmalendu Basak, Neelam Bhardwaj & Suresh Kumar Chaudhari, Suryanarayana Bhaskar & Parbodh Chander Sharma.2020.Nitrogen Mineralization and Availability at Critical Stages of Rice (*Oryza sativa*) Crop, and Its Relation to Soil Biological Activity and Crop Productivity Under Major Nutrient Management Systems. Journal of Soil Science and Plant Nutrition -https://doi.org/10.1007/s42729-020-00208-y *NAAS ating-8.02*
4. Jeevanjot Kaur , Neelam Bhardwaj and Sunidhi Tiwari. 2023. Differential Response of Chickpea (*Cicer arietinum* L.) Genotypes under Organic and Inorganic Input Conditions. Biological Forum – An International Journal 15(10): 000-000
5. Neelam Bhardwaj, Jeevanjot Kaur and Anjali.2021.Low input organic vis-à-vis conventional inorganic management for wheat: an analysis of variation for yield and yield components. Journal of Natural Resource Conservation & Management.1(2):119-124

Books published/Books Chapters/Manuals	Books: 5,Book Chapter=20 ; ,Articles in Souvenir= 5
Conference/Seminar/Symposium papers	>**35**
Extension activity including Popular articles/pamphlets/leaflets	>**30**
Students Guided	**M.Sc .-** Completed : 8, Ongoing: 5
	Ph.D.- Completed =2, Ongoing: 4

Awards/Fellowships: Best Poster award: 02; Best Oral Presentation: 01; Vice-Chancellors Appreciation Award: 01

Miscellaneous achievements/activities

1. **Developed varieties of following crops:**
   a) **Rice : Him Palam Dhan 3** and **Him Palam Dhan 4** , **Sikkim Dhan 2**
   b) **Underutilized crops** : **Him Bathua of chenopodium** and **HPU-51 of adzukibean**
   c) Collaborated in **gram variety** :**Palam Chana-1**
   d) Collaborated **in buckwheat variety: Him Phaphra**.
2. **Actively involved in the conservation of germplasm and accomplished following tasks:**
   a) **Team leader in submitting five farmers' varieties** to PPV & FRA viz; *Kalijhini* grown in Kangra district, *Jattu* and *Matali* from Kullu district, *Goscha* from K angra and *Phulpatas* from Mandi district.
   b) **Filed for the GI application for Japonica red rice of Himachal Pradesh** under Geographical Indications Act in 2021.
   c) Registered ricebean line RBHP-43 with NBPGR New Delhi.
3. **Recommended Adhoc Package of Practices for organic farming of cereal and pulse crops** by contributing as a breeder in evaluating varieties and germplasm of these crops under organic input conditions from 2010 to 2019 in the department of Organic Agriculture & Natural Farming.