

## Dr Rohit Bishist

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## On-going Research Projects

- All India Coordinated Research Project on Agroforestry, ICAR (Principal Investigator).
- Development of fodder bank (silvipastoral model) for sustainable livelihood opportunities in the community land of Kotla-Panjola Panchayat in District Sirmaur of Himachal Pradesh-India funded by Department of Science and Technology (Co-PI).

## Important Research Publications

- Kapoor S, **Bishist R**, Sharma P, Prakash P, Chauhan A, Gautam KL, Sharma R, Kishore K and Thakur Y. 2026. Integrating bamboo-derived biochar into *Morus*-based agroforestry for improved soil fertility, crop productivity and environmental sustainability in the North-Western Himalayas. *Biomass and Bioenergy*. **212**: 109295. <https://doi.org/10.1016/j.biombioe.2026.109295>.
- Rana P, Prakash P, **Bishist R**, Verma R, Singh U, Thakur N, Chauhan S, Kapoor S, Kishore K, Pathania R. 2026. Synergizing nutrient management and mulching for onion cultivation under pomegranate-based agroforestry system in North-Western Himalayas. *Agroforestry Systems*. **100**: 126. <https://doi.org/10.1007/s10457-026-01502-x>.
- Gautam KL, Thakur CL, Bhardwaj DR, Sharma S, **Bishist R**, Sharma H, Sharma A, Kumar M. 2026. Effects of spatial arrangement, intercropping and fertilization on *Capsicum annuum* and *Glycine max* productivity under *Grewia* based agroforestry system in the western Himalayas. *Trees, Forests and People*. **23**: 101133. <https://doi.org/10.1016/j.tfp.2025.101133>
- Kumar A, **Bishist R**, Bhardwaj DR, Kaushal R, Prakash P, Sharma R, Gautam KL and Tomar S. 2026. Traditional *Grewia optiva* based agroforestry systems in the North western Himalayas: a comprehensive study of carbon, soil health, and nutritional value. *Agroforestry Systems*. **100**: 7. <https://doi.org/10.1007/s10457-025-01362-x>.
- Biswal KP, **Bishist R**, Prakash P, Sharma P, Kengoo N, Kishore K and Singh I. 2025. Nutritional evaluation of *Azolla Pinnata* and Its Integration with *Leucaena leucocephala* leaf meal in dairy cattle diet for improving milk characteristics

- in Northwestern Himalayas. *Agroforestry Systems*. **99**: 206. <https://doi.org/10.1007/s10457-025-01313-6>.
- Sharma R, **Bishist R**, Kaushal R, Prakash P, Gautam KL, Kumar A, Sharma H, Thakur V and Kumar M. 2025. Altitude-driven changes in carbon storage, soil properties, and leaf nutritional value of *Quercus semecarpifolia* in the northwestern Himalayas. *Environmental Sustainability*. <https://doi.org/10.1007/s42398-025-00383-7>.
  - Pooja, Prakash P, Kumar P, **Bishist R**, Kumar P, Shilpa, Singh R and Bhatia AK. 2025. Impact of altitudinal gradients on composition, biomass and soil nutrients of *Cedrus deodara* forests in the Northwestern Himalaya. *Trees, Forests and People*. **21**: 100937. <https://doi.org/10.1016/j.tfp.2025.100937>.
  - Dogra R, Pant KS, **Bishist R**, Prakash P and Kumar P. 2025. Impact of multipurpose farm trees in subtemperate agroecosystems: benefits for soil, biomass, fodder, and climate resilience. *Agroforestry Systems*. **99**: 116. <https://doi.org/10.1007/s10457-025-01217-5>.
  - Singh G, Chauhan V, Thakur CL, Verma ML, **Bishist R**, Prakash P, Gautam KL, Sharma H, Dogra R, Kishore K and Kumar M 2023. Studies on natural regeneration, floristic composition, biomass, carbon density and soil properties along an altitudinal gradient in the north-western Himalayas, India. *Forest Ecology and Management* **548**: 121391. <https://doi.org/10.1016/j.foreco.2023.121391>
  - Sharma H, Pant KS, **Bishist R**, Gautam KL, Ludarmani, Dogra R, Kumar M and Kumar A. 2023. Estimation of biomass and carbon storage potential in agroforestry systems of north western Himalayas, India. *Catena* **225**: 107009. <https://doi.org/10.1016/j.catena.2023.107009>.

## Awards & Recognitions

- Received ICAR JRF for MVSc programme at NDRI Karnal *w.e.f.* 2004 to 2006.
- Received NDRI Institutional Fellowship for PhD Programme *w.e.f.* 2006 to 2009.
- Received best poster award in 4<sup>th</sup> National conference of SVAHE on "Pluralistic approaches for livestock development- an extension call" held at College of Veterinary and Animal Sciences CSKHPKV Palampur on May 6-8, 2022.
- Attended International training on scientific modern dairy management at The University of Melbourne, Victoria, Australia *w.e.f.* March 9-29, 2023 under Institutional development programme (IDP) ICAR NAHEP.
- Received **Dr. S Chinnamani Award for Excellence in Agroforestry Extension (2025)**, awarded by the Indian Society of Agroforestry at the Central Agroforestry Research Institute, Jhansi, Uttar Pradesh.