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Specialization: Vegetable Breeding

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Ongoing Research Projects

- Long term All India Co-ordinated Research Project on Vegetable Crops funded by ICAR (Principal Investigator).
- Centre of Advance Faculty Training in Horticulture (Vegetable) funded by ICAR, long term (Co-Principal Investigator).

Important Research Publications

- Shaunk I, Sharma R, Sharma P, Gupta M and Bhardwaj RK. 2023. Developing resistance against soil-borne Fusarium pathogen causing tomato wilt through in vitro cell line selection. Plant Cell, Tissue and Organ Cell. January, 2023
- Kumari R, Kumar R, Kumar S and Gupta M. 2021. Estimation of epistasis and genetic components of variance for different horticultural traits in cucumber (*Cucumis sativus* L.). Indian Journal of Agricultural Sciences. 91 (7): 966–69
- Kumari R, Kumar R, Mehta DK. 2020. Expression of heterosis and residual heterosis for traits of earliness and yield in cross combinations of cucumber (*Cucumis sativus* L.) developed by introgression of indigenous and exotic sources. Scientia Horticulturae (227) <https://doi.org/10.1016/.2020.109781>.
- Thakur M, Kumar R and Kansal S. 2019. Heterosis, combining ability and gene action studies in cucumber for different biotic stresses to develop resistant hybrids. Genetika, Belgrade. 51(1): 199-212
- Kumar S, Kumar R and Dogra RK. 2018. Heterotic potential, potence ratio, combining ability and genetic control of seed vigour traits for yield improvement in cucumber. Indian Journal of Agricultural Sciences, 88(5): 771-78
- Sharma S, Kumar P, Gambhir G, Kumar R and Srivastava DK. 2017. Assessment of genetic diversity in lettuce (*Lactuca sativa* L.) germplasm using RAPD markers. 3 Biotech, 8(1): 9 <https://doi.org/10.1007/s13205-017-1039-4>
- Kumar S, Kumar R, Kumar D, Gautam N, Singh N, Parkash C, Dhiman MR and Shukla YR. 2017. Heterotic potential, potence ratio, combining ability and genetic control of yield and its contributing traits in cucumber (*Cucumis sativus* L.). New Zealand Journal of Crop and Horticultural Science, 45(3): 175-90
- Kumar R, Kumar S, Kumar D and Gupta RK. 2014. Characterization of cucumber genotypes through principle component and regression analyses. Indian Journal of Agricultural Sciences, 84(6): 765-69
- Bhardwaj RK, Walia DP and Kohli UK. 2000. Genetic analysis of morphological traits in a cross (*Sylvia* × *Arkel*) of garden pea (*Pisum sativum* L.). Indian Journal of Agricultural Sciences 71(10): 679-80

Books and Manuals (with ISBN Numbers)

- Kumar R, Singh K, Sharma A, Kumari R, Bhardwaj ML and Kanwar HS. 2017. Production Technology of Vegetables in Shivalik Region of HP (Himachal Pradesh Ke Shivalik

Kshetaron Main Sabjion Ki Unnat Kheti), Deptt. of Vegetable Science, UHF Nauni, Solan (HP), p83 (ISBN No. 9789352792573)

- Bhardwaj RK, Bhardwaj ML, Masye S and Kumar S. 2012. Production Technology of Root Vegetables in Himachal Pradesh (Himachal Pradesh Me Jardar Sabjion Ki Kheti), Department of Vegetable Science, UHF Nauni, Solan, p63 (ISBNNo.139788192113586)
- Vikram Amit, Kumar Manish, Gupta Meenu, Chandel Rajeshwar Singh and Bhardwaj Ramesh. 2013. Quality Production Technology of Garden Pea in Spiti Valley (Spiti Ghati Me Mateor Ki Unnat Krishi). Directorate of Extension Education, UHF, Nauni Solan, 11 p (ISBN No.139788192113586)
- Bhardwaj RK, Bharat N and Kumar D. 2011. Production Technology of Pea and French Bean (Matar Vah Frashbeen Ki Kheti), Directorate of Extension Education, UHF, Nauni Solan, p62 (ISBN No. 9788192113531)

Awards & Recognitions

- The Federal Government of Germany conferred with DAAD Fellowship (German Academic Exchange Programme) to avail PDF in Organic Vegetable Production at the Institute of Organic Agriculture, University of Bonn, Germany in 2004-2005
- ISVS in 2020 conferred with fellow of vegetable science for remarkable services in the field of vegetable science for the welfare of professional, students and farming community
- Best Poster Award in 1st Vegetable Science Congress held at Agriculture- University, Jodhpur and organized by ISVS-Varanasi, ICAR-New Delhi and SIDA- Rajasthan in 2019.
- Letter of Recognition and Appreciation by DST, GOI for research work conducted under the project entitled “Evaluation and seed production of temperate carrots in tribal areas of HP and the progress of the project was rated as VERY GOOD for two years (2004-05 & 2005-06) in Annual Group Meeting held at MPUA&T, Udaipur, Rajasthan
- Letter of Recognition and Appreciation by DST, GOI on account of overall performance of research project entitled Refinement, demonstration and popularization of refined production technologies in Shivalik regions of Himachal Pradesh” and the progress of the project was rated as VERY GOOD and GOOD respectively for 2016 & 2017.
- Best Oral Presentation Award in National Symposium on Precision Horticulture for Small and Marginal Farmers held at IGVK- Raipur, Chattisgarh and organized by IIVR, Varanasi, UP India in 2014
- Best Poster Award in National Golden Jubilee Symposium of AICRP-VC held at ICAR-IIVR, Varanasi, UP in Dec, 2022.
- Varieties developed: Carrot (temperate) variety Solan Rachna ,Cucumber variety Solan Srijan Lettuce (non- heading) variety Solan Kriti, carrot (temperate) variety UHF/SOL/CART/VAR-5 (Identified in 41st Annual Group meeting of AICRP (VC) and recommended for Zone-IV of India