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### Research Project Handled

- Sustainable Vegetable crop production technology and climate change mitigation through HRD to enhance productivity and livelihood security of small and marginal farmers of Seraj valley of district Mandi (HP) funded by NABARD for ₹ 5.68 lakh from 2021 to 2023 (Co-PI).

### Important Research Publications

- **Kumari R**, Kumar R and Mehta DK. 2021. 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* <https://doi.org/10.1016/2020.109781>.
- **Kumari R**, Kumar R and Gupta Meenu. 2021. Estimation of epistasis and genetic components of variance for different traits in cucumber (*Cucumis sativus* L.). *Indian Journal of Agricultural Sciences* 91(7): 966-69.
- **Kumari R**, Kumar R, Kumar R and Chauhan A. 2024. Generation mean analysis of unadapted landraces and wild relatives of cucumber (*Cucumis sativus* L.) for earliness and downy mildew. *Genetika* **56**(2): 283-293. <https://doi.org/10.2298/GENSR2402283K>
- **Kumari R**, Kumar R, Kumar R, Chauhan A and Kumari S. 2023. Development and assessment of biotic stress tolerant cucumber hybrids using land races and commercial varieties. *Indian Journal of Horticulture* **80**(4): 347- 352.
- **Kumari R**, Kumar R, Kumar R and Chauhan A, Devi M, Verma G, Bhagta S and Chauhan M. 2025. Nano urea a step towards precision and sustainable agriculture: A Review. *Plant Archives*, 25(1): 2498-2503.
- Verma G, Manju, Gabhru A, **Sharma R** and Chauhan A. 2022. Impact of self help group on women empowerment in India. *Scientist* **1**(3): 5201-5205 DOI: <https://doi.org/10.2581/zenodo.7437801>.

- **Kumari R** and Kumar S. 2017. Combining ability studies for yield and yield contributing traits in F<sub>1</sub> and F<sub>2</sub> generations of cucumber (*Cucumis sativus* L.). *Indian Journal of Ecology* 44 Special Issue (6): 852-55.
- Kumar R, Chauhan A, **Kumari R**, Kumari S, Thakur P and Thakur N. 2023. Effect of different locations and transplanting dates on the performance of Lettuce var. Great Lakes under wet temperate region of Himachal Pradesh- India. *International Journal of Plant and Soil Science*: 35 (9): 38-44.
- **Kumari R**, Kumar R, Mehta DK, Dogra R and Banyal V. 2018. Heterosis and potence ratio studies for yield and its contributing traits in cucumber (*Cucumis sativus* L.). *Vegetable Science* 45(2): 210-19.
- **Kumari R**, Kumar R and Kumar S. 2017. Combining ability and heterosis for TSS and seed traits in cucumber (*Cucumis sativus* L.). *Vegetable Science* 44(1):12-17.
- **Kumari R**, Kumar R, Kumar S and Sharma A. 2018. Genetic evaluation of indigenous and exotic genotypes and hybrids for quantitative and qualitative traits in cucumber. *Journal of Hill Agriculture* 9: 171-78.
- **Kumari R**, Kumar R and Kumar S. 2017. Genetic studies on incidence and severity of economically important insect pest and diseases in F<sub>1</sub> and F<sub>2</sub> generations of cucumber (*Cucumis sativus* L.). *Journal of Hill Agriculture* 8(2):151-57.
- **Kumari R**, Kumar R, Sharma S, Rana S and Singh V. 2019. Genetic assessment for quality, biotic stress and seed traits in cucumber (*Cucumis sativus* L.). *International Journal of Chemical Studies* 7(3): 2517-21.
- **Kumari R**, Sharma A, Bhagta S and Kumar R. 2018. River bed cultivation: A kind of vegetable forcing for remunerative returns. *International Journal of Current Microbiology and Applied Science* 7(4): 359-65.

## Book and Manuals

- Chauhan A, **Kumari R**, Sharma HD, Bhardwaj RK, Mehta DK, Thakur KS, Gupta M and Daroch RK. 2025. Protected cultivation of vegetable crops. Department of Vegetable Science, Dr YS Parmar University of Horticulture and Forestry Nauni, Solan (173 230) Himachal Pradesh INDIA Pp. 100 (ISBN 978-81-973425-8-5).
- Kumar R, Singh K, Sharma A, **Kumari R**, Bhardwaj ML and Kanwar HS. 2017. *Himachal Pradesh ke Shivalik Shetar main Sabjio ki Unnat Kheti*, published by Dept. of Vegetable Science, Dr YS Parmar University of Horticulture and Forestry Nauni, Solan (HP), 173230 ISBN: 978-93-5279-257-3.

## Awards & Recognitions

- Received Certificate of Appreciation for Achievement in Academics by Ministry of Human Resource and Development, Govt. of India.
- Gold medal, PhD-2015, COH, Dr YSP UH&F Nauni, Solan.

- Received Uma Datt Mamgain Best PhD Research Award- 2020 (SADHNA-UHF Nauni).
- Received best Ph.D. Thesis Award-2019 (PLANTICA Foundation-Uttarakhand).
- Received Gold Medal and Certificate of Appreciation for being PhD topper (Himotkarsh- Una, HP)
- Young Woman Scientist Award 2019 (2<sup>nd</sup> International conference RAAEASGD-2019)
- Certificate of Merit during 10th, 12th, BSc, MSc & PhD degree programmes.
- Received 2<sup>nd</sup> Best poster award in National Symposium on New opportunities in Vegetable Production for sustainable development Golden Jubilee (AICRP Vegetable Crops) held at IIVR, Varanasi w.e.f. Dec 20-22, 2022.
- Received 3<sup>rd</sup> best oral presentation award in National conference on Indigenous knowledge system and practices for sustainable future: A roadmap to Viksit Bharat - 2047 held on 13-14.02.2025 at College of Horticulture and Forestry Thunag, Mandi (HP).