

Curriculum Vitae

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Education Qualification:	B.Sc., HNB Garhwal University, Srinagar (Garhwal), 1996 M.Sc. (Ag.), GB Pant University of Agriculture & Technology, Pantnagar, 2000 Ph.D. (Horticulture), HNB Garhwal University, Srinagar (Garhwal), 2005		
Teaching Experience:	23 Years	Research Experience:	23 Years
Research Interest and Fields of Specialization 1. Horticulture 2. Vegetable Science 3. Fruit Science			
Research Supervision (No. of Ph.D. Degree Awarded/Submitted/Registered) 03- Awarded 01-Submitted 02- Registered			
Administrative Experience 1. Head 2. Chairperson , Board of Studies 3. Member, Academic Council 4. Member, School Board 5. Member, Board of Studies 6. Assistant Proctor 7. Incharge, Garden Section 8. Assistant Controller of Examinations			
Conference/Symposium/Workshop Attended during last five years (2020-2025) International ▶ Participated in International conference on “Current Advances in Agriculture, Animal Husbandry and Allied Sciences (CAAAAS-2023) Jointly organized by Agricultural Research Council of Nigeria, Mabushi, Abuja, Nigeria and National Agriculture Development Cooperative Ltd. Baramulla, India, held at Matrika Auditorium, Shri Mata Vaishno Devi University, Katra, India from July 10 to 11, 2023.			
National ➤ Serve as Resource Person in Food Supply Chain Management With Respect to Horticulture organized by NIT, Srinagar Garhwal, Uttarakhand on 08/11/2022			
Publications during last five years (2020-2025) Journals 1. Udit Joshi , D.K. Rana , Yogesh Kumar , Arun Prakash and Kamlesh Kumar Yadav. 2025. Analysis on Genotypic and Phenotypic Path Coefficients for Major Traits in Okra Germplasm. J Krishi Vigyan 2025, 13(1) : 1-9. DOI: 10.5958/2349-4433.2025.00001.8. ISSN 2319-6432 (Print) ISSN 2349-6433 (Online) 2. Kamlesh Kumar Yadav, DK Rana , TS Bisht, KN Shah and Hemant Kumar Gurjar. 2025. Effect of pinching and plant growth regulators on yield and quality of fenugreek (Trigonella foenum-graecum). Current Horticulture, 13(1): 59–62, January–March 2025DOI: 10.5958/2455-7560.2025.00010.X Print ISSN: 2347-7377 Online ISSN: 2455-7560 3. Chandni Negi , K.N. Shah, V. Singh and D.K. Rana . 2025. Evaluation of Variability Components and Trait Association in Cucumber Germplasm for Yield Contributing Characters in Garhwal Region of Uttarakhand, India. Eco. Env. & Cons. 31 (February Suppl. Issue) : S389-S394. ISSN 0971-765X. DOI No. : http://doi.org/10.53550/EEC.2025.v31i02s.067 4. Abhay Singh, Vivek Singh, Khulakpam Naseeruddin Shah, Deepak Kumar			

- Rana** and Dharmendra Kumar Ram. 2025. Screening of Brinjal Genotypes for Shoot and Fruit Borer (*Leucinodes orbonalis* G.) under Valley Condition of Garhwal Hills. *Environment and Ecology* 43 (1A) : 258—263, Article DOI: <https://doi.org/10.60151/envec/JZTE8745> ISSN 0970-0420
5. Himani Rana , **D.K. Rana** and Chandni Negi. 2024. Association of Characters and Path Analysis in French Bean (*Phaseolus vulgaris* L.) Genotypes. *Eco. Env. & Cons.* 30 (October Suppl. Issue) pp. (S353-S357). DOI No. <http://doi.org/10.53550/EEC.2024.v30i06s.052>. **PRINT ISSN: 0971-765X**
 6. Harendra Kumar, **Deepak Rana**, Vivek Singh, Manish Kumar , Bhag Chand Shirvan and K.N. Shah.2024. Effect of Inorganic Fertilizers, Azotobacter and GA3 on Growth, Yield and Quality of Sprouting Broccoli (*Brassica oleracea* L. var. *italica* Plenck) under Subtropical Conditions of Garhwal Himalaya. *Eco. Env. & Cons.* 30 (August Suppl. Issue) : 2024; pp. (S556-S560) ISSN 0971-765X. DOI No.: <http://doi.org/10.53550/EEC.2024.v30i05s.084>
 7. Udit Joshi , D.K. Rana , Yogesh Kumar , Arun Prakash and Kamlesh Kumar Yadav. 2024. Analysis on Genotypic and Phenotypic Path Coefficients for Major Traits in Okra Germplasm. *J Krishi Vigyan* 2024, 13(1) : 1-4. DOI : 10.5958/2349-4433.2024.00128.X. ISSN 2319-6432 (Print) ISSN 2349-6433 (Online)
 8. Harendra Kumar, **Deepak Rana**, Vivek Singh , Manish Kumar and Bhag Chand Shirvan.2024. Effect of inorganic fertilizers, Azotobacter and GA3 on quality parameters of sprouting broccoli under subtropical condition of Garhwal Himalaya. *Progressive Horticulture*, Vol. 56, No. 1, June 2024. DOI : 10.5958/2249-5258.2024.00003.8. Print: ISSN-0970-3020 Online: ISSN-2249-5258
 9. Eshwar Singh, **D.K. Rana**, K.N. Shah, Vivek Singh, Maneesh Kumar.2024. Qualitative and Yield Characters in Coriander Genotypes. *Environment and Ecology* 42 (3B) : 1382—1387, July—September 2024 Article DOI: <https://doi.org/10.60151/envec/BXLG9793> ISSN 0970-0420.
 10. Tanuja and **Deepak Kumar Rana**.2024. Comparative Study of Planting Time, Growth Regulator and Biofertilizer on Growth, Yield and Quality of Strawberry Cv Chandler. *Environment and Ecology* 42 (2) : 391—398. Article DOI: <https://doi.org/10.60151/envec/OWXJ8776> ISSN 0970-0420
 11. Kanhaiya Lal Nagar , **D. K. Rana** , Akash Barela and Shivangi Rahangdale. 2024. Study of Genetic Diversity and Genetic Advance in Brinjal for MorphoEconomic Traits (*Solanum melongena* L.). *International Journal of Environment and Climate Change*. Volume 14, Issue 3, Page 437-444, 2024; Article no.IJECC.111633 ISSN: 2581-8627 (Past name: *British Journal of Environment & Climate Change*, Past ISSN: 2231-4784)
 12. PAYEL DAS, **D.K. RANA** AND HIMANI RANA. 2024. Impact of Various Mulch Materials on Growth, Yield and Quality of Summer Squash (*Cucurbita pepo* L.) cv. Pusa Alankar. *International Journal of Ecology and Environmental Sciences* 50 (2): 245-249, 2024, 2024 ISSN: 2320-5199 (Online); <https://doi.org/10.55863/ijeec.2024.3159>
 13. RISHIBALA BISHT, **D.K. RANA**, K.N. SHAH, VIVEK SINGH AND HIMANI RANA. 2023. MORPHOLOGICAL CHARACTERIZATION AND GENETIC VARIABILITY IN FRENCH BEAN ARIABILITY IN FRENCH BEAN ARIABILITY IN FRENCH BEAN (*Phaseolus vulgaris* L.) GENOTYPES UNDER SUBTROPICAL CONDITION OF SRINAGAR GARHWAL. *The Bioscan*.18(2): 125-129. **ISSN 0973-7049**.
 14. GOVIND RAM CHOUDHARY, **D.K.RANA**, MANISH KUMAR, ARCHANA MAHIDA AND ROHIT KUMAR KHARRA. 2023. EVALUATION OF GROWTH AND YIELD POTENTIAL OF CUCUMBER (*CUCUMIS SATIVUS* L.) VARIETIES UNDER VALLEY CONDITION OF GARHWAL HILLS. *Asian Jr. of Microbiol. Biotech. Env. Sc.* Vol. 25, No. (3) : 429-433. ISSN-0972-3005. DOI No.: <http://doi.org/10.53550/AJMBES.2023.v25i03.007>
 15. Chandni Negi, **D. K. Rana**, V. Singh, Himani Rana, K. N. Shah. 2023. Quantification of Diverse Local Germplasm of Pumpkin Through Genetic Variability Components in Garhwal Region of Uttarakhand.

- Environment and Ecology 41 (4A) : 2491–2496, Article DOI: <https://doi.org/10.60151/envec/YIPT8088> ISSN 0970-0420
16. HIMANI RANA, **D. K. RANA** AND GANESH RATURI. 2023. Genetic Divergence in Bottle Gourd Genotypes Under Mid Hill Conditions of Uttarakhand. International Journal of Ecology and Environmental Sciences 49: 635-638, 2023 ISSN: 2320-5199 (Online); <https://doi.org/10.55863/ijeec.2023.3011>
 17. Mukesh Choudhary, **D. K. Rana** and Abha Rawat. 2023. Influence of Different Plant Growth Regulators and Boron on Growth, Yield and Sex Expression of Bottle Gourd (*Lagenaria siceraria* Mol.) under Garhwal Valley. International Journal of Environment and Climate Change Volume 13, Issue 11, Page 2453-2459, 2023; Article no.IJECC.108571 ISSN: 2581-8627.
 18. Anil Kumar Yadav, **D.K Rana** and Kiran Yadav. 2023. Effect of Humic Acid and Ascorbic Acid on Growth and Yield of Onion (*Allium cepa* L.) under Valley Conditions of Garhwal Himalaya. Environment and Ecology 41 (3D) : 2214–2218, July–September 2023 Article DOI: <https://doi.org/10.60151/envec/UWTJ1034> ISSN 0970-0420
 19. Safal Rai, **D.K. Rana**, K.N. Shah, Vivek Singh, Amit Negi and Jenifer A. Sangma. 2023. Effect of Different Organic Manures and their Combinations on Growth, Yield and Quality of Bitter Gourd cv Pusa Do Mausami under Sub Tropical Condition of Garhwal Hills. Environment and Ecology 41 (3A) : 1628–1633, DOI: <https://doi.org/10.60151/envec/KIWR4082>, ISSN 0970-0420.
 20. Kurumashetty Mahesh, **D.K. Rana**, Safal Rai, Amit Negi, Jenifer A. Sangma, Ashutosh Agnihotri, Vivek Singh and K.N. Shah. 2022. Effect Of Different Concentrations of Pre-Emergence Herbicides on Growth, Yield and Pest Incidence in Brinjal (*Solanum melongena* L.) Cv. Pant Rituraj under Subtropical Condition of Garhwal Hills. Journal of Pharmaceutical Negative Results. 13(Special Issue1). 2504-2508. [ISSN: Print -0976-9234, Online - 2229-7723]
 21. Amit Negi, **D.K. Rana**, K.N. Shah, Ashutosh Agnihotri, Safal Rai and Vivek Singh. 2022. Studies On Integrated Nutrient Management On Growth, Yield And Quality Of Carrot (*Daucus Carota* L.) Cv. Pusa Vasuda Under Valley Condition Of Garhwal Hills. Journal of Pharmaceutical Negative Results. 13(Special Issue2). 572-577. [ISSN: Print -0976-9234, Online - 2229-7723]
 22. Sonali Mahajan, **DK Rana**, Hema and Lekh Raj. 2022. Effect of different concentration of nutrient and PGRs on physico-chemical quality and yield of mango (*Mangifera indica* L.) cv. Amrapalli under valley conditions of Garhwal hill. The Pharma Innovation Journal 2022; 11(5): 2194-2197. ISSN- (E): 2277-7695 ISSN (P): 2349-8242
 23. KN Shah, **D K Rana** and V Singh. 2021. Combining ability for growth, yield and related traits in cucumber (*cucumis sativus* L.) Under subtropical conditions of Garhwal Himalayas. Bangladesh J. Bot. 50(4): 1003-1010. ISSN-**2535416**.
 24. Udit Joshi, **D.K Rana**, Pawan Singh Rana and Vivek Singh. 2021. Microscopic characterization and performance analysis of chilli (*Capsicum annum*) cultivars. Electronic Journal of Plant Breeding. 12(3):918 – 927 ISSN 0975-928X
 25. Shah, K.N., **Rana, D.K** and Singh, V. 2021. Variability and trait relation between yield and yield related traits in french bean (*Phaseolus vulgaris* L.) *Plant Archives* **21(1)**: 1090-1097. e-ISSN:2581-6063 (online), ISSN:0972-
 26. Dujum Poyom, T.S. Bisht, **D.K. Rana**, Laxmi Rawat and Deepak Mewar. 2021. Improving Germination Efficiency in Seabuckthorn (*Hippophae salicifolia* D. Don) Seeds through Stratification and Priming. *Frontiers in Crop Improvement Vol 9(Special Issue-VI) : 2718-2723* December 2021 Print ISSN : 2393-8234 Online ISSN : 2454-6011
 27. Tanuja, **Rana, D. K.** and Rath, D. S. 2021. Assessment of Genetic Variability Components in French Bean (*Phaseolus vulgaris* L.) under Valley Condition of Garhwal Hills. *Int.J.Curr.Microbiol.App.Sci.* 10(03): 40-44. doi: <https://doi.org/10.20546/ijcmas.2021.1003.007>
 28. Tanuja, **Rana, D. K.** and Rath, D. S. 2021. Shelf Life Enhancement of Custard Apple (*Annona squamosa* L.) under Sub-Tropical Conditions of Garhwal Hills. *Int.J.Curr.Microbiol.App.Sci.* 10(02): 3175-3180. doi:

<https://doi.org/10.20546/ijcmas.2021.1002.348>

29. Mahela, U., **Rana, D. K.**, Joshi, U., and Tariyal, Y. S. 2020. Nano edible coatings and their applications in food preservation. *Journal of Postharvest Technology*, 8 (4): 52-63. ISSN: 2348-4330.
30. Kharra, R. K., **Rana, D. K.**, Kumar, M., Kumar, H., and Choudhary, G. R. 2020. Impact of planting distance and bio-fertilizers on growth and yield attributes of turnip (*Brassica rapa* L.) cv. Pusa Sweti under Garhwal hills. *International Journal of Chemical Studies* 2020; 8(5): 2482-2484. P-ISSN: 2349-8528 E-ISSN: 2321-4902
31. Joshi, U., **Rana, D. K.** and Singh, V. 2020. Characterization study based on the morphology of various okra [*Abelmoschus esculentus* (L.) Moench.] genotypes. *Journal of Emerging Technologies and Innovative Research*. 7 (5): 701-710. Doi No.: <http://doi.org/10.1729/Journal.23754>
32. Hema and **Rana, D. K.** 2020. Evaluation of French Bean (*Phaseolus vulgaris* L.) Genotypes for Growth, Pod Yield and Quality under Sub-Tropical Condition of Garhwal Hills. *Int.J.Curr.Microbiol.App.Sci.* 9(07): 974-980. doi: <https://doi.org/10.20546/ijcmas.2020.907.114>
33. Kumar M., **Rana, D.K.**, Choudhary, G. R., Kumar, H. and Kumar, M. 2020. Correlation coefficient studies in Knol-Khol (*Brassica oleracea* var. gongylodes) cv. White Vienna under Srinagar Garhwal Valley. *International Journal of Chemical Studies*, 8(4): 1244-1247. P-ISSN: 2349-8528, E-ISSN: 2321-4902.
34. Gocher, M., Gocher, R., Rawat, S.S. and **Rana, D.K.** 2020. Qualitative and quantities evaluation of *Phyllanthus emblica* L. fruits under valley condition of Garhwal Himalaya. *Journal of Pharmacognosy and Phytochemistry*, 9(3): 1295-1299. E-ISSN: 2278-4136 P-ISSN: 2349-8234

Chapter in Edited Book-

1. Udit Joshi, D. K. Rana, T. S. Bisht, and Vivek Singh. 2021. Varietal Evaluation in Okra for Yield and Yield Attributing Traits Under Mid-Hill Conditions of Garhwal Himalayas. 2021. Springer Proceedings in Earth and Environmental Sciences ISBN 978-3-030-79064-6 ISBN 978-3-030-79065-3 (eBook). p- 412-427.
2. Himani Rana, D.K. Rana, Ganesh Raturi and Chandni Negi. 2023. Water-Efficient Irrigation Techniques in Horticultural Crops. Modern Concept in Horticulture (Volume-3). Integrated Publications, Delhi-110085, India. ISBN 978-93-5834-445-5
3. Eshwar Singh, D.K. Rana, K.N Shah and Himani Rawat. 2024. Carambola, Suraj S Hanni, Gouthami Y, Roank Mangroliya, Sakshi Sharma and Degala Manjusha. 2024. P.K. Publishers and Distributors, New Delhi 978-93-5834-445-5.
4. Eshwar Singh, D.K. Rana, K.N Shah and Abhay Singh. 2024. Chekurmanis Ajeet Kumar Rajat Rajput Ujjwal Singh Suman Kumari S.P. Kanaujia Sentirenla Jamir. 2024. P.K. Publishers and Distributors, New Delhi
5. Himani Rana, D.K. Rana, Ganesh Raturi and Chandni Negi. 2023. Water-Efficient Irrigation Techniques in Horticultural Crops. Suraj S Hanni, Gouthami Y, Roank Mangroliya, Sakshi Sharma and Degala Manjusha 2023. Integrated Publications, New Delhi 978-93-5834-445-5

Total Number of Research Publications: 112