


## Curriculum Vitae

<b>Full Name:</b>	DR. DEEPAK KUMAR RANA		
<b>Designation:</b>	Assistant Professor & Head		
<b>Department:</b>	Horticulture		
<b>Campus:</b>	Chauras Campus		
<b>Mobile:</b>	9412137680		
<b>Email</b>	drdkrana@gmail.com		
<b>Education Qualification:</b>	NET (ASRB-ICAR) 2001 Ph.D. (Horticulture), HNB Garhwal University, Srinagar (Garhwal), 2005		
<b>Teaching Experience:</b>	21 Years	<b>Research Experience:</b>	22 Years
<b>Research Interest and Fields of Specialization</b>			
<ul style="list-style-type: none"> <li>➤ Horticulture</li> <li>➤ Vegetable Science</li> <li>➤ Fruit Science</li> </ul>			
<b>Honours &amp; Awards</b>			
<ul style="list-style-type: none"> <li>• <b>Excellence in Teaching Award</b>, 2021 in International Conference in Hybrid Mode on Global Research Initiatives for Sustainable Agriculture &amp; Allied Sciences (GRISAAS-2021) conferred by Society for Scientific Development in Agriculture and Technology, Meerut, India</li> <li>• <b>Outstanding Scientist Award-2022</b> by Society for Conservation of Natural Resources(SCNR)</li> <li>• <b>Award for Excellence in Research.-2022</b> by Record Owner</li> </ul>			
<b>Research Supervision (No. of Ph.D. Degree Awarded/Submitted/Registered)</b>			
03- Awarded 01- Registered			
<b>Research Projects/ MoU undertaken (Title, Funding Agency, Total Cost, Completed/ Ongoing):</b>			
<ul style="list-style-type: none"> <li>• Ethno-Medicinal Properties, Socio-Economic Importance and Conservation Strategies of Underutilized and Unexploited Vegetables of Hilly Tract of Uttarakhand Himalayan Regions” funded by Uttarakhand State Council for Science &amp; Technology (UCOST), Vigyan Dham, Dehradun (7.57 Lakhs, 2022-2024) as Co-PI</li> <li>• Enhancing the livelihood of remote area farmers especially Bhotia Community through the Farmers participatory collection, characterization and conservation of Faran in Chamoli district of Uttarakhand funded by Department of Science and Technology, Govt. of India (19.72 lakhs, 2021-2024) as Mentor</li> </ul>			
<b>Administrative Experience</b>			
<ol style="list-style-type: none"> <li>1. <b>Head</b></li> <li>2. <b>Chairperson (Ex-officio), Board of Studies</b></li> <li>3. <b>Member, Academic Council</b></li> <li>4. <b>Member, School Board</b></li> <li>5. <b>Member, Board of Studies (Biochemistry)</b></li> <li>6. <b>Member, Board of Studies (Agriculture), Uttarakhand Open University, Haldwani, U.K.</b></li> <li>7. <b>Member, Green Campus Committee</b></li> </ol>			

## 8. Assistant Proctor

### Conference/Symposium/Workshop Attended during last five years (2018-2023)

#### International

- ▶ Attended International conference on “Aerosols, Air Quality & Climate Change on Himalayan Region of Uttarakhand” organized by Department of Physics, H.N.B. Garhwal University, Srinagar (Garhwal), Uttarakhand, from October 21-23, 2018.

#### National

- ▶ Participated in Five Days National Workshop on “Research Methodology in Management & Social Sciences” organized by Department of Business Management, H.N.B. Garhwal University, Srinagar (Garhwal), Uttarakhand, from 27 to 31<sup>st</sup> May, 2018.
- ▶ Participated in National Conference on “Perspective in Natural & Applied Sciences” organized by Uttarakhand State Council for Science & Technology & Uttarakhand Council for Biotechnology from March 9<sup>th</sup>-10<sup>th</sup>, 2018.
- ▶ Attended Three Days Conference on “Environment Resources & Development of the Indian Himalaya” organized by Department of Geography, H.N.B. Garhwal University, Srinagar (Garhwal), Uttarakhand, from 25 to 27<sup>th</sup> October, 2018.
- ▶ Attended One Day Training & Capacity Building Program on “Remote Sensing & Geographic Information System” organized by Uttarakhand Space Application Centre, Department of Science & Technology, Govt. of Uttarakhand at H.N.B. Garhwal University, Srinagar (Garhwal), Uttarakhand, on 24<sup>th</sup> December, 2018..

### Publications during last five years (2018-2023)

#### Journals

1. Kurumashetty Mahesh **D.K. Rana** , Safal Rai , Amit Negi , Jenifer A. Sangma , Ashutosh Agnihotri , Vivek Singh , 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]
2. 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]
3. 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-ISSN (E): 2277-7695 ISSN (P): 2349-8242
4. 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**.
5. 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
6. 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-
  7. 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
  8. Tanuja, **Rana, D. K.** and Rathi, 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>
  9. Tanuja, **Rana, D. K.** and Rathi, 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>
  10. 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.
  11. 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
  12. 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.one/10.1729/Journal.23754>
  13. 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>
  14. 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.
  15. Gocher, M., Gochar, 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
  16. Tanuja and **Rana, D. K.** 2019. Assessment of planting dates, GA<sub>3</sub> Concentration and Azotobacter on Chandler strawberry. *Indian journal of Horticulture* 76(4): 640-644. ISSN-0972-8538
  17. Tanuja and **Rana, D. K.** 2019. Efficacy of strawberry (*Fragaria ananassa* duch.) genotypes under valley condition of garhwal hills. *Plant Archives* 19(1): 176-180 e-issn:2581-6063 (online), issn:0972-5210
  18. Singh, V., **Rana, D. K.**, Shah, K. N. and Chaudhary, I. J. 2019. Assessment of heritability, genetic advancement and yield of bitter gourd under garhwal region , *Plantica* -

*Journal of Plant Science.* 3 (1): 260 – 269

19. Shah, K. N. Chaudhary, I. J., **Rana, D. K.** and Singh, V. 2019. Impact Assessment of Different Organic Manures on Growth, Morphology and Yield of Onion (*Allium cepa* L.) Cultivar. *Asian Journal of Agricultural Research*, 13 (1): 20-27 ISSN 1819-1894
20. Chaudhary, I. J., Singh, V., **Rana, D. K.** and Shah, K. N. 2019. Assessment Of heritability, genetic advancement and yield of bitter gourd under garhwal region. *International Journal of Science and Research*. 8(2):205-213 (IJSR) ISSN: 2319-7064
21. Kumar M., Singh, V., **Rana, D.K.** and Shah, K.N. 2018. Effect of integrated nutrient management on various horticultural traits of knol-khol (*Brassica oleracea* var. *gongylodes*) cv. White Vienna under Garhwal Hills. *Journal of Pharmacognosy and Phytochemistry*. 7(1): 2285-2288, ISSN-2278-4136(E) 2349-8234 (P)
22. Naseeruddin, K.H., Singh, V., Pant, S.C. and **Rana, D.K.** .2018. Association and path correlation studies in Radish (*Raphanus sativus* L.) under valley condition of Uttarakhand. *Journal of Pharmacognosy and Phytochemistry*. 7(1): 2298-2302, ISSN-2278-4136(E) 2349-8234 (P)
23. Kumar, S., **Rana, D.K.**, Shah, K.N. and Singh, V. 2018. Response of onion (*Allium cepa* L.) cv. pusa red to various organic manures under subtropical condition of Garhwal Himalaya. *Journal of Pharmacognosy and Phytochemistry*. 7(1): 2294-2297, ISSN-2278-4136(E) 2349-8234 (P)
24. Shah, K. N., **Rana, D. K.** and Singh, V. 2018. Evaluation of genetic variability, heritability and genetic advance in Cucumber (*Cucumis sativus* L.) for various quantitative, qualitative and seed characters. *Int. J. Curr. Microbiol. App. Sci.* (2018) Special Issue-7: 3296-3303, ISSN-2319-7706
25. Singh, V., **Rana, D. K.** and Shah, K. N. 2018. Evaluation of Genetic Diversity in Bitter Gourd (*Momordica charantia* L.) under Subtropical Conditions of Garhwal Himalaya. *International Journal of Advanced Scientific Research and Management, Special Issue I*: 31-34.
26. Singh, V., **Rana, D. K.** and Shah, K. N. 2018. Correlation and per se performance studies in various lines of Bitter Gourd (*Momordica charantia* L.) under garhwal himalaya region of Uttarakhand. *Int. J. Curr. Microbiol. App. Sci.* (2018) Special Issue-7: 2857-2865, ISSN-2319-7706
27. Meena, J., Chamola, B.P., **Rana, D.K.** and Singh, K.K. 2018. Studies on performance of French Bean (*Phaseolus vulgaris* L.) cv. Contender for seed production under garhwal himalayas. *Int. J. Curr. Microbiol. App. Sci.* 7(02): 676-681. ISSN- 2319-7706
28. Meena, J. K., Chamola, B.P., Pant, N.C., Singh, K. K. and **Rana, D. K.** 2018. Effect of integrated nutrient management on yield & growth performance of French bean (*Phaseolus vulgaris* L.) under subtropical conditions of Garhwal Hills. *International Journal of Chemical Studies*, 6(2): 3356-3358, ISSN- P- 2349-8528 E- 2321-4902
29. Shah, K.N., **Rana D.K.** and Singh, V. 2018. Studies on genetic divergence in cucumber (*Cucumis sativus* L.) under subtropical conditions of garhwal himalaya. *International Journal of Advanced Scientific Research and Management, Special Issue I*: 39-42.
30. Ola, A. L., **Rana, D.K.** and Jhajhra, M.R. 2018. Correlation and regression studies in radish under valley condition of Garhwal hills. *Journal of Pharmacognosy and Phytochemistry*, 7(2): 2635-2637. ISSN- E-2278-4136 P-2349-8234
31. Sharma, T., Tanuja, **Rana, D. K.** and Naithani, D.C.. 2018. Effect of bioregulators and chemical on seed germination and seedling growth in papaya (*Carica papaya* L.) cv. Pusa Nanha under valley condition of garhwal himalaya. *Int. J. Pure App. Biosci.* 6 (1): 1116-1121. ISSN-2320 – 7051
32. Naithani, D.C., Nautiyal, A.R., **Rana, D.K.** and Mewar, D. 2018. Effect of time of air layering, IBA concentrations, growing media and their interaction on the rooting behaviour of

- Pant Prabhat guava (*Psidium guajava* L.) under sub-tropical condition of garhwal himalaya, *Int. J. Pure App. Biosci.* **6(3)**: 169-180. ISSN- 2320-7051
33. Verma, S., Bairwa, R.K., **Rana, D.K.**, Dimri, T. and Dotaniya, C.K. 2018. Influence of different concentrations of zinc, boron and iron on yield characters of strawberry (*Fragaria x ananassa* Duch.) cv. chandler under valley condition of Garhwal Himalaya. *Journal of Pharmacognosy and Phytochemistry*, 7(2): 3881-3884. ISSN- E-2278-4136 P-2349-8234
  34. Mehta, S. K., Singh, K. K., **Rana, D. K.**, Bhartwal, P. and Brahmanand. 2018. Evaluation of physico-chemical parameters of different Varieties of Guava (*Psidium guajava* L.) under Sub-tropical Condition of Garhwal Himalaya (Uttarakhand), India. *International Journal of Advanced Scientific Research and Management*, Special Issue I: 88-91. ISSN-2455-6378
  35. Bairwa D. S., **Rana, D.K.**, Kumar,P., Kumar,S. Bhati, V. and Parihar, D.2018. Response of pea varieties on growth, yield attributes and quality under valley conditions. *International Journal of Agriculture, Environment and Biotechnology*,11(3): 585-588. ISSN- Print ISSN : 1974-1712 Online ISSN : 2230-732X
  36. Ritu, Tanuja and **D.K. Rana**. 2018. Effect of different concentration of IBA on shooting and rooting of stem cutting of karonda (*Carisa carandas* L.) cv. Pant Manohar under mist condition. *Plant Archives* **18(2)**: 1512-1514.

#### Chapter in Edited Book-

1. 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. Techniques of Hybrid Seed Production in Cucumber. *Innovative Agriculture and Botany*, Victoria Publisher, Mandawali, New Delhi, **1**: 157-162, 2018,
3. Physiological Disorders of Tomato. *Innovative Agriculture and Botany*, Victoria Publisher, Mandawali, New Delhi, **1**: 243-249,2018

#### Popular Article:

1. Joshi U, **Rana D K**, Tanuja and Bhatt K. **2020**. Senescence in plants, its patterns, types and events associated with it. *Agriculture and food: e- newsletter*, **2(10)**: 653-657. ISSN: 2581-8317.
2. Udit Joshi , D.K. Rana , Pawan Singh Rana , Ajay Dhyani. 2020. Tissue Culture Practices in Horticulture. . *Agriculture and food: e- newsletter*, **2(10)**: 767-769. ISSN: 2581-8317.
3. जोशी, उ., राणा, डी. के., पंवार, अ., एवंतिवारी, व. 2020. चुकंदर की वैज्ञानिक खेती. *कृषक आराधना (साप्ताहिक अखबार)*. वर्ष 7, अंक 9, 13.
4. जोशी, उ., राणा, डी. के., शर्मा, व., एवंकुमार. य. 2020. कीटनाशकों के फसलों एवं किसानों के स्वास्थ्य पर दुष्प्रभाव. *मध्य भारत कृषि भारती*. वर्ष 5, अंक 4, 24.
5. जोशी, उ., राणा, डी. के., दयाल, प., एवंतिवारी, व. 2020. गाजर की बीजोदपादन तकनीक. *कृषक आराधना (साप्ताहिक अखबार)*. वर्ष 7, अंक 14, 7.
6. Naseeruddin, Kh, **Rana, D.K.** and Singh V. **2015**. Kheere ki aadhunik khetai. *Pahadi Khetai Bari*, 3(1):44-46. ISSN-2347-2626
7. Puneetha, P., **Rana, D.K.** and Pandey, V. **2014**. Sabjeo ke bejoutpadan ki pramukh technique. *Pahari Khetai Baari*, **2 (1)**: 72-75. ISSN-2347-2626
8. इतलेश गौतम, भारती, डॉ डी. के. राणा, डॉ कृष्ण कुमार सिंह और डॉ गोविन्द विश्वकर्मा . 2020. ब्रोकली की मुनाफे वाली कृषि पद्धति . *मध्य भारत कृषक भारती (मासिक पत्रिका)*, वर्ष-15, अंक-5, पृष्ठ

संख्या:74-75,ISSN-2582-5976, R.N.I. Regd. No. MPHIN/2006/16946

9. इतलेश गौतम, भारती और डॉ डी. के. राणा . अक्टूबर, 2020. जीवाणु खाद का जैविक कृषि में योगदान. मध्य भारत कृषक भारती (मासिक पत्रिका), वर्ष-15 , अंक-7, पृष्ठ संख्या: 82, ISSN-2582-5976, R.N.I. Regd. No. MPHIN/2006/16946
10. भारती, इतलेश गौतम और डॉ डी. के. राणा . 2020. धनिया की खेती . कृषक आराधना (साप्ताहिक अखबार), वर्ष-07 , अंक-19, पृष्ठ संख्या: 8, R.N.I. Regd. No. MPHIN/2014/54645
11. इतलेश गौतम, भारती, डॉ डी. के. राणा, डॉ खुल्लक्पम नसिकद्दिन शाह, डॉ कृष्ण कुमार सिंह, डॉ विवेक सिंह और डॉ गोविन्द विश्वकर्मा . 2020. हिमालयन मूल का सोना – मोर्शेला . कृषक आराधना (साप्ताहिक अखबार), वर्ष-07 , अंक-19, पृष्ठ संख्या: 14, R.N.I. Regd. No. MPHIN/2014/54645
12. भारती, इतलेश गौतम और डॉ डी. के. 2020 . कई प्रकार की बीमारियों को जड़ से खत्म करने वाली गुणकारी औषधि है पत्यरचट्टा . कृषक आराधना (साप्ताहिक अखबार) , वर्ष-07 , अंक-24, पृष्ठ संख्या: 7, R.N.I. Regd. No. MPHIN/2014/54645

**Total Number of Research Publications: 95**