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| Field of Specialization and Research Interest: Plant Breeding (Wheat Breeding)                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Educational Qualification : Ph.D (Plant Breeding and Genetics)                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Employment Record with Professional Experience (in years)                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ol style="list-style-type: none"> <li>1. Assistant Scientist (Plant Breeding) 4 years w.e.f 1998 - 2002</li> <li>2. Assistant Scientist (Plant Breeding ,Senior Scale) 4 years w.e.f. 2002 - 2006</li> <li>3. Senior Scientist (Plant Breeding) 6 years w.e.f. 2007- 2013</li> <li>4. Principal Scientist (Plant Breeding) 10 w.e.f 2013 till Date</li> </ol> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Research Projects handled                                                                                                                                                                                                                                                                                                                                      | AS PI (9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                | As Co-PI (3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Research Publications                                                                                                                                                                                                                                                                                                                                          | Total publications in Journals 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                | <p>Enlist best 5 publications in last 5 years (with NAAS rating/ impact factor)</p> <ol style="list-style-type: none"> <li>1. Rana A, Rana V, Sood VK, Bakshi S and Priyanka. 2024. Mutagenic sensitivity, effectiveness and efficiency in soft and semi-hard texture bread wheat (<i>Triticum aestivum</i> L.) varieties in the north-western Himalayan climate. International Journal of Radiation Biology 100(2): 296-315. <a href="http://doi.org/10.1080/09553002.2023.2261527">http://doi.org/10.1080/09553002.2023.2261527</a> (8.60)</li> <li>2. Rana A, Rana V, Sood VK, Bakshi S, Priyanka, Anuradha. 2024. Deciphering induced variability, character association and multivariate analysis utilizing gamma rays and ethyl methane sulfonate in bread wheat (<i>Triticum aestivum</i> L.) genotypes with differential grain texture. International Journal of Radiation Biology. <a href="http://doi.org/10.1080/09553002.2024.2304823">http://doi.org/10.1080/09553002.2024.2304823</a> (8.60)</li> <li>3. Satish Kumar, Garima Singroha, SC Bharadwaj, Ritu Bala, MS Saharan, Vikas Gupta, Anwar Khan, Sunita Mahapatra, M Sivasamy, Vijay Rana, CN Mishra, Pardeep Sharma, Om Prakash, Ajay Verma, Indu Sharma, Ravish Chatrath and GP Singh. (2019). Multienvironmental evaluation of ----- resistance. <i>Genetic Resources and Crop Evolution</i> 66 (4): 797-808 (7.19)</li> <li>4. Rana C, Sharma A, Sharma KC, Mittal P, Sinha BN, Sharma VK, Chandel A, Thakur H, Kaila V, Sharma P, <b>Rana V</b>. 2021. Stability analysis of garden pea <i>Pisum sativum</i> L.) genotypes under North-Western Himalayas using joint regression analysis and GGE biplots.. <i>Genetic Resources and Crop Evolution</i> 68(3): 999-1010 (7.88)</li> <li>5. Mehta A, Basandrai D, <b>Rana V</b>, Dhillon HK and Basandrai AK. 2022, 2022, Deciphering field resistance to powdery mildew and yellow rust among popular cultivars of wheat and set of differential lines, <i>Indian Journal of Genetics and Plant Breeding</i> 82(1): 38-46 (7.34)</li> </ol> |
| Books published/ Books Chapters/ Manual (Teaching/ trainings)                                                                                                                                                                                                                                                                                                  | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Conference/ Seminar/ symposium papers                                                                                                                                                                                                                                                                                                                          | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Extension activity including Popular articles/ pamphlets/ leaflets                                                                                                                                                                                                                                                                                             | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Students Guided                                                                                                                                                                                                                                                                                                                                                | PG (20)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                | Ph.D (9)- 5 completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Awards/ Fellowships                                                                                                                                                                                                                                                                                                                                            | <ol style="list-style-type: none"> <li>1. Vice Chancellor's Appreciation award 2003, CSKHPKV, Palampur</li> <li>2. Appreciation award, CIMMYT Mexico, 2010</li> <li>3. Fellow, Society for Advancement of Wheat &amp; Barley Research, Karnal</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| International exposure/ Visits Abroad                                                                                                                                                                                                                                                                                                                          | <ol style="list-style-type: none"> <li>1. Attended Wheat improvement and pathology training course at CIMMYT, Mexico w.e.f 2.8.2010 to 1.10.2010</li> <li>2. Attended BGRI, Technical workshop at Beijing, China w.e.f 1.9.2012 to 4.9.2012</li> <li>3. Attended 'South Asia side Meeting: On 03. 09.12 at The Beijing Friendship Hotel, China</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Miscellaneous achievements/ activities                                                                                                                                                                                                                                                                                                                         | <ol style="list-style-type: none"> <li>1. Contributed in development and popularization of eight high yielding wheat varieties and two barley varieties</li> <li>2. Conducted more than 300 front line demonstrations and on-Farm trials</li> <li>3. Major Infrastructure facilities like Medium term seed storage, greenhouses and 45 kva Generator set alongwith miscellaneous farm machinery were created</li> <li>4. Zonal Councilor, Society for Advancement of Wheat &amp; Barley Research, Karnal</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |