

## Personal Details

### Dr. Sanjay Kumar

Scientist

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**Research Interest:** Seed Science and Technology

**M.Sc.** : Indian Agricultural Research Institute, New Delhi

**Ph.D.** : Indian Agricultural Research Institute, New Delhi

**Joining date in ICAR (yyyy/mm/dd) :**2015-07-01

## [Google Scholar](#)

**Publications (Top 10 Publications having NAAS rating 6 and above with first or corresponding author only):**

1. Sanjay Kumar, Sherry Rachel Jacob, C. Tara Satyavathi, Malavika Dadlani and Arun Kumar M.B. (2016). Utility of SSR markers in assessing the purity and identity of Pearl Millet hybrids. *Journal of Plant Biochemistry and Biotechnology* 25(1):121–124.
2. Sanjay Kumar, B. S. Tomar, Y. S. Saharawat and Ajay Arora (2018): Foliar spray of mineral nutrients enhanced the growth, seed yield, and quality in onion (*Allium cepa* L.) cv. PusaRiddhi, *Journal of Plant Nutrition*, DOI: 10.1080/01904167.2018.1434200.
3. Sanjay Kumar, B S Tomar, Ajay Arora, Y S Saharawat, Atul Kumar and Rajesh K Sharma (2016). Influence of plant growth retardants on growth, seed yield and quality in onion (*Allium cepa*) cv. PusaRiddhi, *Indian Journal of Agricultural Sciences* 86 (11): 1413–7.
4. Sanjay Kumar, B S Tomar, S K Jain, Naveen Singh, Rajender Parsad and A D Munshi (2015). Effect of planting time and density on plant growth, seed yield and quality attributes in onion (*Allium cepa*) cv. PusaRiddhi, *Indian Journal of Agricultural Sciences*. 85 (12): 1578–85.
5. Sanjay Kumar, Keerthi, MC, Veeresh Kumar, Tejveer Singh, Aniruddha Maity and VK Yadav. (2021) Diurnal and temporal activity of pronubial insects on Berseem flowers in a Subtropical Environment. *Journal of Apicultural Research* (Accepted)
6. Sanjay Kumar, CKGupta, A Maity, D Vijay, Manjunatha N, VK Wasnik and VK Yadav (2020). Quality assessment of berseem (*Trifolium alexandrinum* L.) seed traded through informal seed system in Bundelkhand region of Central India. *Range management & agroforestry* (Accepted)
7. Manjunatha, N, Maneet Rana, Sanjay Kumar, M. Tomar, Vijay, D., A. Maity and Srinivasan, R. (2019) Morphological and molecular identification of stem rot pathogen in berseem (*Trifolium alexandrinum* L.) *Range Mgmt. & Agroforestry* 40 (2): 262-268.
8. Vinod Kumar Wasnik, P. Koli, A. Maity, S. R. Kantwa, S. Sondhia and Sanjay Kumar (2020). Evaluation of herbicides in berseem (*Trifolium alexandrinum* L.) for fodder and seed Production. *Range Mgmt. & Agroforestry* 41 (1): 74-80.
9. Vinod Kumar, B S Tomar, Balraj Singh and Sanjay Kumar (2014). Effect of post-harvest ripening and drying methods on seed quality and storability in pumpkin cv Pusa Hybrid 1 *Indian Journal of Agricultural Sciences* 84 (9): 1044–8.
10. Vinod Kumar, B S Tomar, Malavika Dadlani, Balraj Singh and Sanjay Kumar (2015). Effect of fruit retention and seed position on the seed yield and quality in pumpkin (*Cucurbitamoschata*) cv Pusa Hybrid 1. *Indian Journal of Agricultural Sciences* 85 (9): 1210–3.

**Patent / Technologies / Varieties / Methodologies / System etc. (Five only) :**

1. SSR markers were identified to establish the identity, DUS and genetic purity of commercial pearl millet hybrids
2. Identified new root endophytic bacteria having potential against berseem root rot disease.
3. Developed and characterized CMS based 4X variants of Bajra Napier hybrid.
4. Seed quality enhancement techniques in red clover and white clover.
5. Seed Production technology of onion

**No. of Students Guided:** Nil

**Awards / Recognitions / Fellowship (Five only):**

1. DST Inspire Fellowship- 2012
2. Young Scientist Award-2016 by SSDAT, U.P.
3. Best Scientist Award-2020 by ICAR-IGFRI, Jhansi

**International exposure:**Nil

**Ongoing research projects (Institutional / external funded -as PI or CCPD):**Nil