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**Designation: Professor and Head**  
**Department: Horticulture**  
**School: Agricultural Sciences and Technology**  
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#### Education Qualifications:

	Organization	Year of award
Undergraduate	G.B.P.U.A.&T., Pantnagar	1994
Post-graduation	C.S.A.U.A.&T., Kanpur	1996
Ph.D.	C.S.J.M. University, Kanpur	2005
N. E. T. (Horticulture)	ASRB, ICAR, New Delhi	1997
N. E. T. (Vegetable Science)	ASRB, ICAR, New Delhi	1998

#### Professional Experience (In Years)

**Teaching Experience: 22 Years**

**Research Experience: 22Years**

#### Areas of Research (Maximum Five Bullet Points)

The major areas of research include Vegetable Science, Fruit Science, Floriculture and Medicinal & Aromatic Plants through Teaching, Research and Extension activities:

1. Crop Improvement
2. Crop Production
3. Crop Protection
4. Crop Utilization
5. Post-harvest Management

#### Research/Consultancy Grants

Title of Projects	Funding Agency	Duration (Specific Dates)	Total grant	Role (PI/CO-PI)
Collection, Evaluation and Conservation of Underutilized Vegetable of Uttar Pradesh	U. P. Council of Agricultural Research, Lucknow	2 Years 6 Months	11.46989 Lakh	PI

#### Publications:

International
1. <b>Sanjay Kumar</b> , S.K. Dixit and H.R. Mishra (2006). Effect of plant growth regulators on yield and yield attributing characters of Bottle gourd [ <i>Lagenariasiceraria</i> (Molina) Standl].

*Advances in Plant Sciences* 19(II) 419-421.

2. **Sanjay Kumar** & S. K. Dixit (2007). Studies on effect of Naphthalene Acetic Acid (NAA) on growth, flowering and tuber production in Tuberose Cv. Single under condition of Varanasi. *Advances in Plant Sciences* 20(II): 647-649.
3. S. K. Dixit, **Sanjay Kumar**, M. L. Meena and R. B. Ram (2007). Biofertilizers may be substitute of chemical fertilizer: A Review. *The Asian Journal of Horticulture* 2 (2): 298-300.
4. M. L. Meena, **Sanjay Kumar** and S. K. Dixit (2008). Effect of Bio-fertilizers and Nitrogen on flowering, fruiting, yield & yield attributing character of Okra (*Abelmoschus esculentus*(L) Moench. *Environment and Ecology* 26 (2):560-562.
5. M. L. Meena, **Sanjay Kumar** and S. K. Dixit (2008). Effect of Bio-fertilizers and Nitrogen on morphological characteristics of Okra (*Abelmoschus esculentus*(L) Moench. *Advances in Plant Sciences* 21 (II): 457-459.
6. **Sanjay Kumar**, S.K. Dixit, R.B. Ram and M.L. Meena. (2008). Effect of VAM on Propagation of Grape (*Vitis vinifera* L.) through Hard Wood Cutting. *Advances in Plant Sciences* 21 (II): 403-405.
7. S.K. Dixit and **Sanjay Kumar**(2009). *In –Vitro* Clonal Propagation of Rose (*Rosa indica* var. *Odorata*). *Advances in Plant Sciences* 22 (I): 15-16.
8. M.L. Meena, **Sanjay Kumar** and J. Singh (2009). Effect of nitrogen and sulphur on yield and yield attributing characters of onion (*Allium cepa*L). *Environment & Ecology* 27(2A): 942-944.
9. Raghvendra Singh, **Sanjay Kumar**, Anand Kumar Singh, B. K. Singh and Manoj Kumar (2009). Character Association and Path Coefficient Studies in Cucumber (*Cucumis sativus* L). *Environment & Ecology* 27 (3):1066-1069.
10. Chet Ram, **Sanjay Kumar**, Y. C. Yadav and Adesh Kumar (2010). Correlation coefficient and path analysis in Garden Pea (*Pisum sativum* L.). *Progressive Agriculture* 10 (1): 119-123.
11. Y. N. Singh, **Sanjay Kumar**, Yogesh Chandra Yadav and Adesh Kumar (2010). Effect of fruit ripening stages and KMnO<sub>4</sub> treatment on storage life of Banana (*Musa paradisiaca* L.). *Progressive Agriculture* 10 (1): 161-163.
12. Adesh Kumar, **Sanjay Kumar** & Yogesh Chandra Yadav (2011). Correlation coefficient and path analysis in brinjal (*Solanum melongena* L.) *Environment & Ecology* 29 (2A): 966-970.

13. Yogesh Chandra Yadav and **Sanjay Kumar** (2011). Correlation studies in Bottle gourd (*Lagenariasiceraria* (Molina) Standl.). *Environment & Ecology* 29(3): 1156-1160.
14. Rahul Kumar, **Sanjay Kumar\*** and Yogesh Chandra Yadav (2011). Genetic variability studies in gladiolus (*Gladiolus species* L.). *Environment & Ecology* 29(3)1161-1165.
15. Rahul Kumar, **Sanjay Kumar** and Yogesh Chandra Yadav (2011). Variability studies for yield in attributing traits in gladiolus (*Gladiolus species* L.). *Progressive Agriculture* 11(2): 366-360.
16. Adesh Kumar, **Sanjay Kumar**&Yogesh Chandra Yadav (2011). Variability studies for yield and yield attributing characters in brinjal (*Solanummelongena* L.) *Progressive Agriculture* 11(2): 486-488.
17. **Sanjay Kumar**, Anoop Kumar and Yogesh Chandra Yadav(2011). Efficacy of Bio-fertilizers with NPK on growth and yield of Onion (*Allium cepa*L.) cv. Nasik Red. *The Asian journal of Horticulture* 6(1): 256-258.
18. Adesh Kumar, **Sanjay Kumar**&Yogesh Chandra Yadav. (2011). Correlation and character association studies in brinjal (*Solanummelongena* L.) *The Asian journal of Horticulture* 6 (1): 221-224.
19. Adesh Kumar, **Sanjay Kumar**&Yogesh Chandra Yadav (2011). Gene action studies in Brinjal (*Solanummelongena* L.). *Environment & Ecology* 29 (4): 1717-1719.
20. Yogesh Chandra Yadav and **Sanjay Kumar** (2012). Specific combining ability studies in Bottle gourd [*Lagenariasiceraria* (Molina) Standl]. *Environment & Ecology* 30 (1):18-23.
21. Yogesh Chandra Yadav, **Sanjay Kumar** and Raghvendra Singh (2012). Studies on genetic variability, heritability and genetic advance in cucumber (*Cucumissativus* L.). *Hort Flora Research Spectrum* 1(1): 34-37.
22. Bijay Kumar, **Sanjay Kumar** and Yogesh Chandra Yadav (2012). Genetic variability for some metric traits in Strawberry (*Fragaria x ananassa*Duch.). *Hort Flora Research Spectrum* 1 (1): 86-88.
23. **Sanjay Kumar**, M. K. Yadav, Yogesh Chandra Yadav and Adesh Kumar (2012). Effect of foliar application of boron on growth yield, quality and seed production of radish (*Raphanussativus* L.). cvJaunpuri Local. *Progressive Agriculture* 12 (1): 199-202.
24. **Sanjay Kumar**, Annapurna, Yogesh Chandra Yadav and Raghvendra Singh (2012). Genetic variability, heritability, genetic advance and path analysis in Okra (*Abelmoschusesculentus* (L.) Moench.). *Hort Flora Research Spectrum* 1(2): 139-144.

25. Yogesh Chandra Yadav and **Sanjay Kumar** (2012). Assessment of heterobelotosis for yield and other horticultural traits in bottle gourd (*Lagenariasiceraria* (Molina) standl.).*International Journal of Plant Sciences* 7(1): 181-184.
26. V. K. Pandey, **Sanjay Kumar** and Yogesh Chandra Yadav (2012). Effect of nitrogen, phosphorus and potash on growth, yield and yield attributing traits in garlic (*Allium cepa* L.) cv. Agrifound White. *International Journal of Plant Sciences* 7(1): 71-73.
27. S. K. Singh, **Sanjay Kumar**, Yogesh Chandra Yadav and Adesh Kumar (2012). Effect of NPK on growth, yield and quality of Okra (*Abelmoschusesculentus* (L.) Moench.). *Hort Flora Research Spectrum* 1(2): 190-192.
28. Priyanka Singh, **Sanjay Kumar** and SutanuMaji (2012). Effect of different wrapping materials on post- harvest changes in Papaya (*Carica papaya* L.) *Environment & Ecology* 30 (3A): 773-777.
29. Priyanka Singh, **Sanjay Kumar**, SutanuMaji, Adesh Kumar and Yogesh Chandra Yadav (2012). Effect of Calcium chloride on post- harvest changes in papaya fruits. *The Asian Journal of Horticulture* 7(1): 113-117.
30. Yogesh Chandra Yadav and Sanjay Kumar (2012). Inbreeding depression in Bottle gourd [*Lagenariasiceraria* (Molina) Standl].*International Journal of Agricultural Sciences* 8 (2): 376-379.
31. Priyanka Singh, **Sanjay Kumar** and SutanuMaji(2012). Effect of Etherel on post- harvest changes in papaya fruits. *Hort flora Research Spectrum* 1 (3): 225-230.
32. Rashmi, **Sanjay Kumar** and Yogesh Chandra Yadav (2012). Correlation and path coefficient studies in gladiolus (*Gladiolus spp.* L.). *Environment & Ecology* 30(4):1276-1279.
33. JyotiSwaroop, Sanjay Pathak, M. S. Jakhar and **Sanjay Kumar** (2012). Studies on preparation and preservation of low calorie guava (*Psidiumguajava* L) nectar using stevia as low calorie sweetener. *International Journal of Processing and Post- harvest Technology* 3(2): 283-285.
34. Yogesh Chandra Yadav and **Sanjay Kumar** (2012). Estimation of heterosis for yield and yield contributing traits in Bottle gourd [*Lagenariasiceraria* (Molina) Standl]. *The Asian Journal of Horticulture* 7(2): 310-314.
35. Pratima Singh, **Sanjay Kumar**, SutanuMaji and Abhishk Singh (2013). Genetic variability, heritability and genetic advance in cauliflower (*Brassica oleracea* var. botrytis

- L.). *International Journal of Plant Science* 8 (1): 179-182.
36. JyotiSwaroop, **Sanjay Kumar**, AparnaDube and R. Shukla (2013). Development and Preservation of low calorie Guava nectar. *Plant Archives* 13 (2): 987-990.
  37. ShwetaSoni, **Sanjay Kumar**, PallaviChaudhary and Awadhesh Kumar (2013). Heritability and genetic advance in Cabbage (*Brassica Oleracea*Var. *Capitata*L.).*Hort Flora Research Spectrum* 2(3): 274-276.
  38. PallaviChaudhary, **Sanjay Kumar** and PrawalPratap Singh Verma(2013). Correlation and Path coefficient analysis in Brinjal (*SolanumMelongena* L.). *Hort Flora Research Spectrum* 2(4): 346-351.
  39. Manoj Kumar, M.L. Meena, **Sanjay Kumar**, SutanuMajiand Devendra Kumar (2013). Effect of nitrogen, phosphorus and potassium fertilizers on the growth, yield and quality of tomato var. Azad T-6. *The Asian journal of Horticulture*8 (2): 616-619.
  40. Devendra Kumar, R.B. Ram, **Sanjay Kumar**, SutanuMaji and Manoj Kumar (2013).Variability and physico-chemical studies in snap melon (*Cucumismelovar. momordica*). *The Asian journal of Horticulture*8 (2): 751-753.
  41. Sandeep Kumar, SutanuMaji, **Sanjay Kumar** and Harsh Deep Singh (2014). Efficacy of organic manures on growth and yield of Radish (*Raphanussativus*L.) cv. Japanese White.*International Journal of Plant Sciences* 9 (1):57-60.
  42. Rashmi and **Sanjay Kumar** (2014). Estimation of genetic variability, correlation and path analysis in gladiolus (*Gladiolus species* L.). *International Journal of Plant Sciences* 9 (1):186-190.
  43. ShilpiKashyap, **Sanjay Kumar**, SutanuMaji and Devendra Kumar (2014). Effect of organic manures and inorganic fertilizers on growth, yield and quality of brinjal (*Solanummelongena*L.) cv. Pant Rituraj.*International Journal of Agricultural Sciences* 10 (1):305-308.
  44. Rakesh Kumar Meena, **Sanjay Kumar**, SutanuMaji, DevendraKumarand Manoj Kumar (2014). Effect of organic manures and biofertilizers on growth, flowering, yield and quality of tomato cv. PusaSheetal. *International Journal of Agricultural Sciences* 10 (1):329-332.
  45. Amit Singh, SutanuMaji and **Sanjay Kumar** (2014).Efficacy of biofertilizers on yield and biomolecules of anticancerous vegetable Broccoli. *International journal of Bio-resource and Stress Management* 5 (2):262-268.
  46. PallaviChaudhary and **Sanjay Kumar** (2014).Variability, heritability and genetic advance studies in Egg-plant (*Solanummelongena*L.). *Plant Archives* 14(1): 483-486.

47. Swati Brinjh, **Sanjay Kumar**, Devendra Kumar and Manoj Kumar (2014). Effect of integrated nutrient management on growth, yield and quality in Onion cv. PusaMadhvi. *Plant Archives* 14 (1): 557-559.
48. **Sanjay Kumar**, Raj Kumar verma, Devendra Kumar and Manoj Kumar (2014). Effect of Biofertilizers, Nitrogen and Phosphorus on growth, yield and quality in Onion cv. Nasik Red. *Advances in Plant Sciences* 27(II): 353-355.
49. *Ashish Kumar Sahu, Sanjay Kumar and SutanuMaji (2014)*. Effect of biofertilizers and inorganic fertilizers on vegetative growth and yield of okra [*Abelmoschus esculentus* (L.) Moench]. *International Journal of Agricultural Sciences* 10 (2):558-561.
50. Harsh Deep Singh, SutanuMaji and **Sanjay Kumar (2014)**. Influence of plant bio-regulators on growth and yield of garlic (*Allium sativum*L.).*International Journal of Agricultural Sciences* 10(2):546-549.
51. Priyanka Singh, **Sanjay Kumar** and SutanuMaji (2014). Studies on the effect of ethrel and different wrapping materials on post-harvest changes of Papaya fruits (*Carica papaya* L). *International Journal of Food and Nutritional Sciences* 3 (6): 97-107.
52. Jitendra Kumar, **Sanjay Kumar\***, SutanuMaji, Manoj Kumar and Devendra Kumar (2015). Studies on Effect of Biofertilizers with Chemical Fertilizers on Growth, Yield and Quality of Fenugreek (*Trigonella foenum-graecum*L.). *International Journal of Agricultural Sciences* 11(1):198-200.
53. Govind, S. Maji, R. Kumawat, A. Pal, **S. Kumar** and S. Saha (2015). Improvement of growth, yield and quality of Garlic (*Allium sativum* L.) cv. G-282 through a novel approach. *The Bioscan* 10 (1): 23-27.
54. **Sanjay Kumar** and Bikas Das (2015). Effect of Gibberellic acid and Cycocel on Vegetative growth, flowering and yield of African marigold (*Tagetes erecta* L). *Advances in Plant Sciences* 28 (II):135-137.
55. A. Pal, S. Maji, Govind, R. Kumawat, **S. Kumar** and D C. Meena (2015). Efficacy of various sources of nutrients on growth, flowering, yield and quality of Tomato (*Solanum lycopersicum* L.) cv. Azad T-6. *The Bioscan* 10 (1): 473-477.
56. D.C. Meena, S. Maji, J. K. Meena, Govind, R. Kumawat, K. R. Meena, **S. Kumar** and K. Sodh (2015). Improvement of Growth, Yield and quality of tomato cv. Azad T-6 with foliar application of zinc and boron. *International Journal of Bio-resource and stress Management* 6 (5):598-601.
57. Vivek Tiwari, SutanuMaji, **Sanjay Kumar**, Govind Prajapati and Rahul Yadav (2016). Use

- of Kitchen Waste based bio-organics for Strawberry (*Fragaria x ananassa*Duch) production. African Journal of Agricultural Research: 11(4):259-265.
58. Shani Kumar, **Sanjay Kumar\***, SutanuMaji and Vijay Kumar Pandey (2016). Studies on Effect of Inorganic Fertilizers and Bio-fertilizers on Growth, Yield and Quality of Radish (*Raphanussativus*L.). International Journal of Plant Sciences 11 (1): 98-102.
  59. Kamal Ram Meena, SutanuMaji, **Sanjay Kumar**, DushyantParihar and D. C. Meena (2016). Effect of Bagging on fruit quality of Guava. International Journal of Bio-resource and Stress Management 7 (2): 330-333.
  60. Ravindra Kumar Sharma, **Sanjay Kumar**,SutanuMaji, Vijay Kumar Pandey, Smriti Singh, Avdhesh Kumar Dubey and Pankaj Kumar (2016). Genetic Variability, Heritability, Correlation Coefficient and Path Analysis in French bean (*Phaseolus vulgaris* L.) The Bioscan 11 (2): 1153-1158.
  61. Kamal Ram Meena, SutanuMaji, **Sanjay Kumar** and ShashankVerma(2016). Influence of shoot pruning for crop regulation and improving fruit yield of guava. *The Bioscan*11 (2):1355-1359.
  62. KanaramSodh, SutanuMaji, **Sanjay Kumar**, GovindPrajapati and Kamal Ram Meena(2016). Performance study of various garlic genotypes (*Allium sativum* L.) in Subtropical Lucknow conditions. *The Bioscan*11 (2):1093-1097.
  63. Smriti Singh, **Sanjay Kumar**, V. K. Verma, Vijay Kumar Pandey and SutanuMaji (2016). Effect of different levels of sulphur on growth, yield and quality of some radish varieties. International Journal of Agriculture Science 8 (51): 2187-2188.
  64. DhirenderPertap Singh, **Sanjay Kumar**, Vijay Kumar Pandey and SutanuMaji (2016). Studies on Integrated Nutrient Management on Growth, Yield and Quality of Carrot (*Daucuscarota* L.). International Journal of Agriculture Science 8 (51): 2189-2191.
  65. Awadhesh Kumar, **Sanjay Kumar** and SutanuMaji (2016). Genetic Variability, heritability and Genetic advance studies in Okra (*Abelmoschusesculentus*L. Moench): International Journal of Agriculture Science 8 (57): 3122-3124.
  66. Ashish Kumar Mishra, **Sanjay Kumar**, ShashankVerma, Shivakantdubey and AvdheshKumarDubey (2016). Effect of Zinc sulphate and Iron Sulphate on Vegetative Growth, Yield and quality of Strawberry (*FragariaXananassa*Duch.) cv. Chandler. The Bioscan 11: 2222-2225.
  67. ShashankVerma, **Sanjay Kumar**, SutanuMaji, Kamal Ram Meena and Rakesh Kumar Meena (2017). Effect of inorganic and bio-fertilizers on growth and yield of strawberry

- [*Fragaria x ananassa* L. Duch.] cv. Chandler in Central Uttar Pradesh. International Journal of Plant Sciences 12 (2): 183-189.
68. Rajeev Kumar, **Sanjay Kumar**, Rakesh Kumar Meena, Pradeep Kumar and RanjeetRawat (2017). Effect of Integrated Nutrient Management on Growth, Yield and Quality of Tomato (*Lycopersiconesculentum* L.) cv. Pusa Ruby. Plant Archives 17(2):1197-1200.
69. ShashankVerma\*, **Sanjay Kumar**, SutanuMaji and Rakesh Kumar Meena (2017).Effect of Inorganic and Bio-Fertilizers on Physicochemical characters and Benefit Cost Ratio of Strawberry [*Fragaria X ananassa* L. Duch.] cv. Chandler in Central Uttar Pradesh, India. Plant Archives 17 (2):1603-1606.
70. Pradeep Kumar, **Sanjay Kumar**, Rakesh Kumar Meena, Rajeev Kumar and RanjeetRawat (2017). Efficacy of Biofertilizers on Growth, Yield and Quality of Sprouting Broccoli (*Brassica oleracea* Var. *italica* Plank)” cv. Pusa Broccoli KTS-1. Plant Archives 17(2):1647-1650
71. **Sanjay Kumar**, SutanuMaji and Sunil Kumar Rawat (2017). Performance of amaranthus genotypes under Lucknow conditions. Plant Archives 17 (2):1734-1738.
72. Dileep Kumar, **Sanjay Kumar**, Rakesh Kumar Meena and ShashankVerma (2017). Effect of Organic and Inorganic Fertilizers on Growth, Yield and Quality of Cabbage (*Brassica oleracea* L. var. *capitata*). Int. J. Pure App. Biosci. 5 (5): 1590-1593.
73. **Sanjay Kumar**, SutanuMaji, Sunil Kumar Rawat and ShashankVerma (2018). Performance of MucunaGermplasms under Lucknow Conditions. Int. J. Pure App. Biosci. 6 (1): 701-703.
74. Vinay Kumar Mishra, **Sanjay Kumar** and Vijay Kumar Pandey (2018). Effect of Organic Manure and Bio-Fertilizers on Growth, Yield and Quality of Brinjal (*Solanummelongena* L.). Int. J. Pure App. Biosci. 6 (1): 704-707.
75. Rakesh Kumar Meena, **Sanjay Kumar**, M.L. Meena and ShashankVerma (2018). Genetic variability, heritability and genetic advance for yield and quality attributes in tomato (*Solanumlycopersicum* L.). Journal of Pharmacognosy and Phytochemistry 7(1): 1937-1939.
76. Rakesh Kumar Meena, **Sanjay Kumar**, M. L. Meena and Adesh Kumar (2018).Correlation and Characters Association Studies in Tomato (*Solanumlycopersicum* L.). Int. J. Pure App. Biosci. 6 (1): 1291-1295.
77. Devendra Kumar, **Sanjay Kumar**, M.L. Meena, Rakesh Kumar Meena and Pradeep Kumar (2018). Correlation and characters association studies in bitter gourd



- (*Momordicachantia* L.). *Journal of Pharmacognosy and Phytochemistry* 7(2): 3510-3514.
78. Devendra Kumar, **Sanjay Kumar**, Rakesh Kumar Meena, Manoj Kumar and Ram Vilas (2018). Genetic Variability, Heritability and Genetic Advance for Yield and Quality Attributes in Bitter Gourd (*Momordicacharantia* L.). *Int. J. Pure App. Biosci.* 6 (2): 499-503.
79. **Sanjay Kumar**, SutanuMaji and S.K. Rawat (2018). Performance study of cluster bean germplasms under Lucknow condition. *International Journal of Plant Sciences* 13(1): 47-50.
80. **Sanjay Kumar**, Pushkar Singh Patel and Pradeep Kumar (2018). Genetic variability, heritability and genetic advance in cowpea [(*Vignaunguiculata*(l.) Walp.)] *Plant Archives* 18 (2): 1268-1270.
81. Pushkar Singh Patel, **Sanjay Kumar**, Rakesh Kumar Meena, Pradeep Kumar and TribhuvanRai (2018). Correlation and Path analysis in Cowpea [(*Vignaunguiculata*(L.) Walp.)]. *Int. J. Pure App. Biosci.* 6 (5): 142-146.
82. Dharmpal Singh, **Sanjay Kumar**, R.S. Verma, RohitMaurya and AkashShukla (2018). Effect of organic manure and bio-fertilizers on quality parameters of strawberry (*Fragaria x ananassa*Duch.) cv. Chandler. *Journal of Pharmacognosy and Phytochemistry* 2018; 7(6): 1227-1228.
83. Satish Kumar Gautam, **Sanjay Kumar**, Pradeep Kumar, Manjeet Kumar and Jitendra Kumar (2018). Genetic variability, heritability and Genetic advance in Okra [*Abelmoschusesculentus*(L.) Moench]. *International Journal of Chemical Studies* 6 (6): 2695-2698.
84. Ram Vilas, **Sanjay Kumar** and M. L. Meena (2019). Impact of Gibberelic acid and Cycocel on flower yield and quality attributes of African Marigold (*Tagetaserecta* L.). *Advances in Plant Sciences* 32(II): 79-81.
85. Aman Shankar, **Sanjay Kumar**, Rajeev Kumar and Pradeep Kumar (2019). Efficacy of organic manures and bio-fertilizers on growth, yield and quality of broccoli (*Brassica oleracea*L.var. *italica*Plenck). *Plant Archives* 19(2): 2608-2612.
86. Mukesh Kumar, **Sanjay Kumar**Rakesh Kumar Meena, Manoj Kumar Jangid and Vinay Kumar Singh (2019). Efficacy of Bio-fertilizers and in combination with chemical fertilizers on growth of okra (*Abelmoschusesculentus* L.). *Int. J. Pure App. Biosci.* 7 (5): 482-486.
87. Rakesh Kumar Meena and **Sanjay Kumar**, M. L. Meena and Adesh Kumar (2020). Combining ability for yield and quality related traits in Tomato (*Solanumlycopersicum* L.). *International Journal of Current Microbiology and Applied*

Sciences 9 (5): 2931-2935.

88. Vijay Kumar Pandey, **Sanjay Kumar** and Rakesh Kumar Meena (2020). Determination of Genetic Variability, Correlation Coefficient, Heritability and Genetic Advances in Tomato (*Solanum lycopersicon* L.) Int. J. Pure App. Biosci. 8 (4): 535-538

### National

1. Akhilesh Kumar Pal, A.N. Maurya, B. Singh, D. Ram and **Sanjay Kumar** (2003). Genetic variability, heritability and genetic advance in cowpea (*Vigna unguiculata* L. Walp). *Orissa J. Hort.* 31(1): 94-97.
2. **Sanjay Kumar**, G.N. Singh, Akhilesh Kumar Pal and C.B.S. Rajput (2004). Effect of graded levels of nitrogen and methods of application on growth and yield of Colocasia (*Colocasia esculenta* Schott.). *Orissa J. Hort.* 32(2): 64-67.
3. **Sanjay Kumar** and Samir Dixit (2004). Studies on the effect of weed management practices in winter season Brinjal crop. *Orissa J. Hort.* 32(1): 46-47.
4. Akhilesh Kumar Pal, B. Singh, A. N. Maurya & **Sanjay Kumar** (2004). Correlation and path analysis in Cowpea [*Vigna unguiculata* (L) Walp]. *South Indian Horticulture* 52(1-6): 82-88.
5. **Sanjay Kumar**, S.K. Dixit and J. N. Singh (2005). Quality of Guava as affected by storage. *Annals of Plant & Soil Research* 7(1): 105-106.
6. S. K. Dixit and **Sanjay Kumar** (2006). Effect of different plant growth regulators on in-Vitro propagation of Rose (*Rosa* spp). *Progressive Horticulture* 38 (2): 234-237.
7. Raghendra Singh, **Sanjay Kumar** & S. K. Dixit (2006). Correlation coefficient and path analysis in Bottlegourd [*Lagenaria siceraria* (Molina) Standl]. *Progressive Horticulture* 38 (2): 256-261.
8. **Sanjay Kumar**, Shrawan Kumar and Rohit Shukla (2006). Physico-chemical characteristics of some Guava (*Psidium guajava*) cultivars. *The Horticultural Journal* 19 (1): 5-7.
9. S.K. Dixit and **Sanjay Kumar** (2006). Evaluation of Elite Gladiolus Cultivars as Intercrop with Mango Cv. Dashehari. *The Horticultural Journal* 19 (1): 59-61.
10. M. M. Syamal, S. K. Dixit and **Sanjay Kumar** (2006). Effect of Biofertilizers on growth and Yield in Marigold. *Journal of Ornamental Horticulture* 9 (4): 304-305.
11. Akhilesh Kumar Pal, **Sanjay Kumar** & A. N. Maurya (2007). Genetic Study for earliness in Cowpea (*Vigna unguiculata* (L) Walp). *Indian Journal of Horticulture* 64 (1): 63-66.

12. **Sanjay Kumar**, Raghvendra Singhand Akhilesh Kumar Pal (2007). Genetic Variability, Heritability, Genetic Advance, Correlation Coefficient and Path Analysis in Bottle gourd (*Lagenariasiceraria* (Molina) Standl. *Indian Journal of Horticulture* 64 (2) 163-168
13. S. K.,Dixit, **Sanjay Kumar** & Syamal, M. M. (2007). In-vitro propagation of dahlia through shoot tip culture. *Progressive Horticulture* 39 (2): 159-161.
14. R. B. Ram, D. H. Dwivedi, S. K. Dixit, **Sanjay Kumar** and M.L. Meena. (2007). Effect of bio and chemical fertilizers on growth, flowering, fruiting and yield of okra [*Abelmoschus esculentus* (L.) Moench.]. *Progressive Horticulture* 39 (2): 165-170.
15. M. K. Srivastava, **S. Kumar** and A. K. Pal (2008). Studies on combining ability in Okra through Di-allele analysis. *Indian Journal of Horticulture* 65 (1): 48-51.
16. Ashish Kumar, **Sanjay Kumar** and Akhilesh Kumar Pal (2008). Genetic Variability and Character association for fruit yield and yield traits in Cucumber (*Cucumis sativus* L). *Indian Journal of Horticulture* 65(4) 423-428.
17. M. L. Meena, Vikash Kumar, **Sanjay Kumar** and Y. C. Yadav (2008). Correlation coefficient and Path analysis in Coriander (*Coriandrum sativus* L). *The Horticultural Journal* 21(2): 83-85.
18. Yogesh Chandra Yadav, **Sanjay Kumar**, B. P. Bisen & S. K. Dixit (2009). Genetic Variability, Heritability, Genetic advance for some traits in Cucumber (*Cucumis sativus* L). *Indian Journal of Horticulture* 66 (4): 488-491.
19. **Sanjay Kumar**, Vimlesh Kumar, Yogesh Chandra Yadav and Adesh Kumar (2009). Integrated weed Management in Kharif Onion in Cv. N-53 (*Allium cepa* L.) *The Horticultural Journal* 22(1) 7-10.
20. Raghvendra Singh, Anand Kumar Singh, B. K. Singh, **Sanjay Kumar** and Dharmendra (2009). Genetic variability of Quantitative characters in Cucumber (*Cucumis sativus* L). *The Horticultural Journal* 22 (1): 30-32.
21. **Sanjay Kumar**, Annapurna and Yogesh Chandra Yadav (2009). Correlation coefficient path analysis studies in Okra (*Abelmoschus esculentus* (L.) Moench.). *Annals of Horticulture* 2(2): 166-170.
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29. Yogesh Chandra Yadav and **Sanjay Kumar** (2011). Determination of variability for yield advancement in bottle gourd [*Lagenaria siceraria* (Molina) Standl]. *Annals of Horticulture* 4(2): 151-164.
30. **Sanjay Kumar**, Manoj Kumar Verma and Yogesh Chandra Yadav (2011). Studies on effect of Biofertilizers with chemical fertilizers on growth and yield of Cauliflower (*Brassica oleracea* var. *botrytis*) Cv. Pusa Snowball K-1. *Annals of Horticulture* 4 (2): 202-205.
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32. Rashmi, **Sanjay Kumar**, Adesh Kumar and Amit Kumar (2011). Studies on genetic variability analysis in Gladiolus (*Gladiolus species* L.). *The Horticultural Journal* 24 (2): 105-108.
33. Bijay Kumar, **Sanjay Kumar** and Yogesh Chandra Yadav (2011) .Genetic variability in Strawberry (*Fragaria X ananassa* Duch.). *The Horticultural Journal* 24 (1): 16-19.
34. Yogesh Chandra Yadav and **Sanjay Kumar** (2011). Genetic variability for some quantitative traits in Bottle gourd [*Lagenaria siceraria* (Molina) Standl]. *The Horticultural Journal* 24 (1): 43-46.

35. Sujit K. Yadav, V.P.Singhand **Sanjay Kumar** (2011). Correlation studies for some metric and quality traits in chilli (*Capsicum annum* L). *The Horticultural Journal* 24 (1): 36-39.
36. Yogesh Chandra Yadav and **Sanjay Kumar** (2012). Determination of variability for yield improvement in bottle gourd. [*Lagenariasiceraria* (Molina) Standl].*Indian Journal of Ecology* 38 (2): 278-280.
37. Raghvendra Singh, Anand Kumar Singh, **Sanjay Kumar**, B. K. Singh and S. P. Singh (2012). Combining ability studies in Cucumber (*Cucumissativus* L). *Vegetable Science* 38(1):49-52.
38. Pradeep Kumar, **Sanjay Kumar\***, Yogesh Chandra Yadav&Adesh Kumar (2012). Effect of biofertilizers in combination with chemical fertilizers on growth and yield of broccoli (*Brassica oleracea* var. italica plank) cv. Fista. *Indian J. Ecol* 39 (1): 172-173.
39. Raghvendra Singh, Anand Kumar Singh, **Sanjay Kumar** and B. K. Singh (2012). Heterosis and Inbreeding depression for fruit characters in Cucumber (*Cucumissativus* L). *Indian Journal of Horticulture* 69 (2):200-204.
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41. Yogesh Chandra Yadav and **Sanjay Kumar** (2012). Studies on genetic variability, correlation coefficient and path analysis in bottle gourd (*LagenariaSiceraria* (Molina) Standl). *Annals of Horticulture* 5 (1): 80-89.
42. **Sanjay Kumar**,Virendra Kumar and Yogesh Chandra Yadav (2012). Studies of effect of boron and molybdenum on growth yield and yield attributing characters of cauliflower (*Brassica oleracea* L. var. botrytis). *Annals of Horticulture* 5 (1): 53-57.
43. Rahul Kumar, **Sanjay Kumar** and Yogesh Chandra Yadav (2012). Genetic variability, heritability, genetic advance correlation coefficient and path analysis in gladiolus (*Gladiolus species* L.) *Indian Journal of Horticulture* 69 (3): 369-373.
44. Sunil Kumar Rawat, **Sanjay Kumar** and Yogesh Chandra Yadav (2013). Genetic evaluation for biometrical traits in fennel (*Foeneculumvulgare* Mill). *Journal of Spices and Aromatic Crops* 22 (1): 87–89.
45. Sandeep Kumar, **Sanjay Kumar** and N. C. Pushkar (2013). Effect of pinching, disbudding and foliar spray of cytozyme on growth and flowering behavior of annual chrysanthemum (*Chrysanthemum carinatum*Schousb). *Progressive Horticulture* 45 (2) 326-330.
46. Sunil Kumar Rawat, **Sanjay Kumar** and V. K. Pandey (2013). Determination of genetic

variability, correlation and path analysis for yield advancement in Fennel (*Foeniculumvulgare* Mill.). *Indian Journal of Ecology*40 (2):195-200.

47. ShwetaSoni, **Sanjay Kumar** and SutanuMaji (2013).Correlation and Path coefficient analysis studies in Cabbage (*Brassica Oleracea*Var. *Capitata*L.).*Annals of Horticulture* 6 (2): 331-336.

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49. **Sanjay Kumar\*** and Surya Prakash (2015). Studies on Genetic variability, correlation and path analysis in Coriander (*Coriandrumsativum*L.).*Annals of Horticulture* 8 (2): 166-169.

50. **Sanjay Kumar**, Subhash Kumar Verma, Manoj Kumar and Devendra Kumar (2016). Effect of organic and inorganic fertilizers on growth, yield and quality of Radish (*Raphanussativus*l.) cv. Japanese white. *Annals of Horticulture* 9 (2):133-136.

51. KaushalKishor, **Sanjay Kumar** and Vijay Krishna Pandey (2016). Effect of sulphur and zinc on growth and bulb production of onion cv. Nasik Red. *Annals of Horticulture* 9 (2): 228-229.

52. Jay Prakash, **Sanjay Kumar**, Vijay Kumar Pandey, ShashankVerma and SutanuMaji (2017). Effect of the organic manures and inorganic fertilizers on growth and yield of garlic (*Allium sativum* L.). *Research in Environment and Life Sciences* 10 (6) 569-571.

53. D. C. Meena, M. L. Meena and **Sanjay Kumar** (2019). Influence of organic manures and biofertilizers on growth, yield and quality of Okra (*Abelmoschchusculentus* L. Moench). *Annals of Plant and Soil Research* 21(2): 130-134.

54. M.L. Meena, Suresh Yadav, **Sanjay Kumar**, Rajmani Singh, RuchikaAbha and Rupesh Kumar Mandel (2020). Genetic Variability, Heritability and Genetic Advances in the Garlic Genotypes *Biosc. Biotech. Res. Comm.* 13(1): 335-339.

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**Book Chapters**

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1. M.M. Syamal, J.N. Singh and **Sanjay Kumar** (2006). **Practical Manual of Horticulture**. Published by Department of Horticulture, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi.

2. R. B. Ram, **Sanjay Kumar**, Deepa H Dwivedi and M. L. Meena (2008). Souvenir of National Seminar on “**Sustainable Horticultural Research in India: Perspective, Priorities**

<b>and Preparedness”</b> Organized by Department of Applied Plant Science (Horticulture), BabsahebBhimraoAmbedkar University, Lucknow-226025.				
3. Ram Chandra, R. B. Ram, <b>Sanjay Kumar</b> and Sujit Kumar (2017). Souvenir cum Abstract on National Symposium on “ <b>IPRs in Agricultural Research</b> ” during August 30-31, 2017 at BBAU, Lucknow.				
4. National Seminar on “ <b>Transforming Agriculture to Doubling of Farmers Income</b> ” organized by BabasahebBhimraoambedkar University &SamagraVikas Welfare society, Lucknow during Feb 10-11, 2018.				
5. Grafting of Horticultural crops: A Boon to combat diseases and production constraints “Climate change and its Impact on Global Food security&Sustainability of Agriculture” published by Mahima Publication, Varanasi Pp-143-145.				
<b>Authored Books</b>				
<b>Edited Books</b>				

### Patents

	Inventors	Title and Award/Application No.
<b>Awarded</b>	-	-
<b>Published</b>	-	-
<b>Filed</b>	-	-

### Research Supervision

	Completed	Ongoing
<b>PG/M.Phil</b>	68	04
<b>Ph.D.</b>	08	07
<b>Post-Doctoral</b>	-	-

### Honors, Recognition and Awards:

1. **Gold Medal Award** by Society for Recent Development in Agriculture on the occasion of I<sup>st</sup> Indian Agricultural Scientists and Farmers Congress during October 03-04, 2009.
2. **ISHRD Fellow Award** by G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand during March 21-23, 2010 on occasion of National Symposium on Conservation Horticulture.

3. **Young Scientist Award** by Society for Recent Development in Agriculture, Meerut during September 11-12, 2010 on the occasion of National Symposium on Emerging Trend and Agricultural Research, Meerut.
4. **Young Scientist Award** on the occasion of National Symposium on Integrated Farming Systems for Sustainable Agriculture- Challenges and Opportunities, Jhansi during Feb 19-21, 2011.
5. **Best Citizen Award of India** by the International Publishing House, New Delhi in the year 2011.
6. **Best Poster Presentation Award** by Indian Institute of Vegetable Research, Varanasi during April 12-14, 2013 on the occasion of National Symposium on Abiotic & Biotic stress Management in Vegetable Crops.
7. **Best Poster Presentation Award** by Hi- Tech Horticultural Society & Shobhit University, Meerut during May 11-12, 2013 on occasion of International Conference on “Impact of Technical tools on Food Security under Global Warming Scenario (ITTFS-2012)”.
8. **Excellence in Teaching Award** by Society for Extension Education and Management in Agriculture on occasion of National Conference on Emerging Problems and Recent Advances in Applied Science: Basic to Molecular Approach during Feb 8-9, 2014.
9. **Poster Presentation Prize** by International Seminar 2014 (ISIAAR), Bidhan Chandra Krishi Vishwavidyalaya, Mohanpur, W. B. during Nov. 6-9, 2014.
10. **Kumar Saxena Bahadur SRDA award-2016** by Society for Recent Development in Agriculture, Meerut during November 27-29, 2016 on the occasion of International Conference on Global Agriculture & Innovation Conference, Noida.
11. **Best Scientist (Teaching) Award** by Society for Scientific and Social Development, Meerut & Shobhit University, Meerut Feb 25-26, 2017.
12. **Dr. Ram Badan Singh Vishishtha Krishi Vaigyanik Puraskar-2016** by U. P. Council of Agricultural Research, Lucknow on 14-06-2017.
13. **Fellow Award** by Hi- tech Horticultural Society, Meerut during Nov. 26-30, 2017 on the occasion of Global Meet on Science & Technology for Ensuring Quality Life at Hotel Grand Continental, Jalan Belia, Chow Kit, Kuala Lumpur.
14. **Eminent Scientist Award** by Samagra Vikas Welfare Society, Lucknow during 23-24, 2019 on the occasion of International Conference on “Advances in Agricultural sciences & Allied Science Research” at Rama University, Kanpur.

#### **Membership of Professional Bodies:**



1. Progressive Horticulture, Hill Horticulture Development Society, Chaubatia, Almora
2. Vegetable Science, Indian Institute of Vegetable Research, Varanasi
3. Indian Journal of Horticulture, Indian Agricultural Research Institute, New Delhi
4. Journal of Ornamental Horticulture, Indian Agricultural Research Institute, New Delhi
5. Progressive Agriculture, S. V. B. Patel University of Agri. & Tech., Meerut
6. Flora and Fauna, B.B. P.G. College (Bundelkhand University), Jhansi
7. Hort Flora Research Spectrum, Meerut
8. Progressive Research, Society for Scientific Development in Agriculture & Technology, Meerut

### Seminar/Conference/Symposia /Workshops Organized:

Please provide details wherein the faculty member has participated as a organizing Secretary

S. No.	Date	Title of Conference or Institution
1	Feb., 10-11, 2018	National Seminar on Transforming Agriculture to Doubling Farmers 'Income
2	August 30-31, 2017	National Symposium on Agricultural Research with Relation to IPR,S (ARRIPR)
3	Jan., 14-15, 2014	Training Programme/ National Seminar on KrishiAnusandhanEvamTaknikiShabda, New Delhi

### Countries Visited:

Visited during on the occasion of Global Meet on Science & Technology for Ensuring Quality Life at Hotel Grand Continental, JalanBelia, Chow Kit, KualaLumpurat Kuala Lumpur, Malaysia and awarded **Fellow Award** by Hi- tech Horticultural Society, Meerut during November26-30, 2017.

### Invited Lectures/Talks/Chair/Co-Chair in Seminar/Conference/Symposia /Workshops:

1. **Judge of Poster Evaluation Committee** in National Conference on Emerging Problems and Recent Advances in Applied Science: Basic to Molecular Approach during Feb 8-9, 2014.
2. **Co- Chairman** in various committees on the occasion of 2<sup>nd</sup> UP Agricultural Science Congress, Lucknow during June 14-16.2014.
3. **Oral Presentation** on “**Organic farming in Vegetables: Needs for Future**” in 4<sup>th</sup> U.P. Agricultural Science Congress, Lucknow during March 02-04, 2016.
4. **Chairman of Technical Session** on the occasion of International Conference on Global Agriculture & Innovation Conference-2016 during November 27-29, 2016.
5. Lead Talk on “**Post- harvest handling of fruits with special reference to Citrus**” on the Occasion of International Seminar on International Congress on "Post-Harvest Technologies

of Agricultural Produce for Sustainable Food and Nutritional Security" during 10-12 November, 2016

6. **Chairperson of the technical session** in Emerging Trends in Agricultural sciences and its Impact on Sustainable Livelihood during Feb 25-26, 2017.
7. **Oral Presentation** on **“Underutilized Legume Vegetables: potential Source of Health and Nutritional Security”** in National Symposium on Vegetable Legumes for Soil and Human Health Feb 12-14, 2016.
8. **Lead Lecture** on **“Problems and Prospects of Marketing and Post-harvest handling of Citrus Crop”** in International Conference on Post-harvest Technology of Agricultural Produce for Sustainable Food and Nutritional security Nov 10-12, 2016.
9. **Lead Lecture** delivered on **“Potential of Underutilized Legume Vegetables to Contribute to National Security”** in International Seminar on Agriculture & Food for Inclusive Growth and Development during Jan 14-15, 2017.
10. **Lead Lecture** delivered in National Conference on Emerging Trends in Agricultural Sciences and its Impact on Sustainable Livelihood during Feb 25-26, 2017.
11. **Lead Lecture** on **“Hi-tech Horticulture for Ensuring Productivity, Nutritional Quality and Value Addition”** delivered in Global Meet on Science & technology for Ensuring Quality Life at Hotel Grand Continental, JalanBelia, Chow Kit, Kuala Lumpur during Nov. 26-30, 2017.
12. **Lead Lecture** on National Seminar on **“India’s time to delve in to IP laws”** in National Symposium on IPRs in Agricultural Research during August 30-31, 2017.
13. **Lead Lecture** on **“Initiative to Double Farmers Income by Hi-Tech Horticulture in India”** delivered in National Seminar on Transforming Agriculture to Doubling Farmers Income during Feb 10-11, 2018.
15. **Lead Lecture** on **“Prospects of Protected Vegetable Cultivation in India for Enhancing Farmer’s Income”** delivered in International Conference on “Advances in Agricultural Sciences & Allied Science Research” at Rama University, Kanpur.

#### **Additional Information (If Any):**

1. Chairperson, Departmental Research Committee, BBAU, Lucknow
2. Chairperson, Board of Post-Graduate Studies, BBAU, Lucknow
3. Member, Academic Council, B.B.A.University, Lucknow

4. Member, School Board, S.B.&B.T., B.B.A.University, Lucknow
5. Subject Matter Specialist of Affiliation Committee of Various Universities
6. Coordinator (s), One-Day Lecture Series Seminar of Department of Horticulture
7. Chairman, Co-Chairman and Member of various committees of University
8. Worked as Chairman, Inspection Committee of University
9. Worked as Head, Department of Applied Plant Science w. e. f. Aug 17,2009 to Aug 16,2012
10. Worked as Officer -in-Charge, Hindi Prakoshtha of BBBAU, Lucknow
11. Worked as Coordinator of Gardening & Beautification Committee, BBAU, Lucknow
12. Worked as Coordinator, Various Universities Entrance Test Examination
13. Observer of Online Entrance examination of Various Universities/ Organization
14. Worked as Chairperson, Equal Opportunity Cell of BBAU
15. Worked as Coordinator, Remedial Coaching Programme, BBAU, Lucknow
16. Expert Member of U. P. Public Service Commission, Prayagraj
17. Expert member of various posts of U. P. Council of Agricultural Research, Lucknow
18. Expert member of various selection committee of B. B. A. U., Lucknow
19. Member , Board of Studies of U. P. Autonomous College, Varanasi
20. Member, Board of Studies of V. B. S. Purvanchal University, Jaunpur
21. Member, Board of Studies of D. D. Upadhyaya University, Gorakhpur
22. Member, Proctorial Board of B. B. A. U., Lucknow

**(Prof. Sanjay Kumar)**