

Brief Profile

Dr. Arvind Kumar

Professor & Head, Fruit Science- College of Horticulture

Joint Director, Horticulture Research Centre

Mobile Number : +919412515214

E-mail: arvindadr88@yahoo.co.in



Ph.D.: Horticulture

Publications: Research Papers	– 90
Books	– 14
Book Chapters	- 41
Other publications	– 118
(Abstracts & Popular articles etc.)	

Techniques Developed-

1. Standardization of most efficient vegetative propagation technique (**Epicotyl grafting**) in Mango for western U.P. condition (**One year saving than other vegetative propagation techniques**).
2. Standardization the composting method by Recycling of Harmful Weeds (**Parthenium and Bhang**) and other waste materials through NADEP composting for well decomposed and enriched compost - **A good source of essential plant nutrients for the replacement of chemical fertilizers**.
3. Standardization the composting technique to **reduce the harmful effects of open-field straw burning (Rice straw & Sugarcane trash)** through NADEP composting.

Teaching:

Involved in different UG/PG/Ph.D. courses of Department of fruit science, College of Horticulture & Department of Horticulture, College of Agriculture.

Ph. D. / M.Sc. students guided :

As Advisor - 20

As Co-Advisor - 58

Awards Received -

1. **Received Young Scientist Award 2017 given by Hi-Tech Horticultural Society** on the occasion of “Global Meet on science and technology for ensuring quality life (GMST-2017) during 26-30, November 2017 at **Kuala Lumpur, Malaysia**. The conference organized by Hi-Tech Horticultural society, Meerut & Society for recent development in Agriculture, Meerut (UP)- 250110.
2. **Received Young Scientist Award -2019 given by Agriculture Technology Development Society (ATDS) Society** on the occasion of 3rd International conference on “Global initiatives in Agriculture and applied sciences for eco friendly environment (GIASE-2019) during 16-18, June 2019 at Conference Hall, Tribhuvan University, **Kathmandu, Nepal**.
3. **Received Scientist of the year Award -2019 given by Society for recent development in Agriculture (SRDA)** on the occasion of International conference on “3rd Global meet on science & technology for ensuring food & nutrition security (GMST-2019) held during 01-03, December, 2019 at National research centre on seed spices - **Ajmer, Rajasthan**

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4. **Adarsh vidya saraswati Rashtriya Puraskar (2020-21)** -National award given by Glacier journal Research foundation, Global management council, **Ahmedabad, Gujrat.**
5. **Aryabhat scientist award for the year 2020-21**, given by **Samaj vikas santhan** (Trust register no.464/2013)- **Meerut**, in a national seminar on Importance of water on 14.03.2021 at BDS institute – Meerut.
6. **And many more.....**

Research Papers:-

1. **Arvind Kumar**, Vipin Kumar, B. Singh, Mukesh Kumar, Ashok Kumar, Anil Sirohi and I.P. Singh (2010). "Heterosis study for yield and its components in Bottle Gourd [*Lagenaria siceraria* (M.) Standl.]." *Vegetable Science*, 37 (2) : 200-202.
2. **Arvind Kumar**, Vipin Kumar, Ashok Kumar, B. Singh and Mukesh Kumar (2010). "Enrichment of NADEP compost made from waste materials" *Progressive Agriculture*, 10(3): 249-250.
3. **Arvind Kumar**, Vipin Kumar, Satya Prakash, Ashok Kumar, B. Singh, Brij Mohan and Mukesh Kumar (2010). "Effect of NADEP compost on growth and yield of Okra (*Abelmoschus esculentus* L. Moench)" *Annals of Horticulture*, 3 (2): 245-247.
4. **Arvind Kumar**, B. Singh, Mukesh Kumar and R.K. Naresh (2011). "Genetic variability, heritability and genetic advance for yield and its components in Bottle gourd (*Lagenaria siceraria* M.)" *Progressive Horticulture*, vol.43 (2): 268-270.
5. **Arvind Kumar**, B. Singh and Mukesh Kumar (2011). "Exploitation of Hybrid Vigour for yield in *Lagenaria siceraria* (Molina) Standl using Line x Tester analysis" *Vegetos*, vol.24 (2): 45-48 (2011).
6. **Arvind Kumar**, Ashok Kumar, Vipin Kumar, Mukesh Kumar, B. Singh and Pankaj Chauhan (2012). "Recycling of Harmful weeds through NADEP composting" *Vegetos*, vol.25 (1): 315-318 (2012).
7. **Arvind Kumar**, B.Singh, Vipin Kumar, M.K.Singh and K.V. Singh (2012). "Correlation and Path coefficient analysis for certain metric traits in Bottle gourd (*Lagenaria siceraria* M.)" using Line x Tester analysis" *Annals of Horticulture*, 5(1): 90-94 (2012).
8. **Arvind Kumar**, Vipin Kumar, Manoj Kumar Singh and Mukesh Kumar (2015). "Estimation of combining ability to identify desirable general and specific combiners in Bottle gourd (*Lagenaria siceraria* M.) using Line x Tester analysis " *Advance in plant Sciences*, 28(II): 255-258 (2015).
9. **Arvind Kumar**, Vipin Kumar, Ashok Kumar and Mukesh Kumar (2018). "REDUCE THE HARMFUL EFFECTS OF OPEN-FIELD STRAW BURNING THROUGH NADEP COMPOSTING" *An International Refereed, Peer Reviewed & Indexed Quarterly Journal in*

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Science, Agriculture & Engineering, MULTIOLOGIC IN SCIENCE, VOL. VIII, SPECIAL ISSUE (A) : 25-28, AUGUST-2018.

10. **Arvind Kumar**, Vipin Kumar, S K Tripathi, Satya Prakash and B. Singh (2021) “Integration of different sources of nutrients on growth and yield of Potato (*Solanum tuberosum* L.) cv. Kufri chipsona” Annals of Horticulture **14 (1) : 46-50 (2021)**
11. **Arvind Kumar**, Satya Prakash, Vipin Kumar and Mukesh Kumar (2015). “Effect of propagation techniques on survivality in Mango (*Mangifera indica* L.)” Annals of Horticulture, 8(1): 103-106 (2015).
12. **Arvind Kumar**, Satya Prakash and Jeetendra Kumar (2018) “Studies on flowering behaviour of Pomegranate (*Punica granatum* L.) with special reference to red aril cultivars” Progressive Agriculture, 18(1): 110-112 (2018).
13. **Arvind Kumar**, Vipin Kumar, Ashok Kumar and Mukesh Kumar (2018). “REDUCE THE HARMFUL EFFECTS OF OPEN-FIELD STRAW BURNING THROUGH NADEP COMPOSTING” An International Refereed, Peer Reviewed & Indexed Quarterly Journal in Science, Agriculture & Engineering, MULTIOLOGIC IN SCIENCE, VOL. VIII, SPECIAL ISSUE (A) : 25-28, AUGUST-2018.
14. **Arvind Kumar**, Jeetendra Kumar, Satya Prakash and Vipin Kumar (2020) “Studies on biochemical parameters of Pomegranate (*Punica granatum* L.) with special reference to red aril cultivars” International Journal of Chemical Studies 2020; 8(5): 1453-1457.
15. Pushkar dixit, **Arvind Kumar**, Satya Prakash, Mukesh Kumar, Vipin Kumar, Shardulya Shukla, Manoj Kumar and Uttam Kumar(2019) “Effect of time, techniques and environment of propagation on performance of guava (*Psidium guajava*)” *Indian Journal of Agricultural Sciences* **89 (3): 415–419, March 2019.**
16. **Arvind Kumar**, Satish Kumar, Vipin Kumar, Vibhu Pandey, Shalini Singh and Amit Kumar (2022) “Access the effect of pruning on fruit quality in guava (*Psidium guajava* L.)” Prog. Agric. 22 (2) : 139-142 (2022).
17. **Arvind Kumar**, Vipin Kumar, Satya Prakash, Mukesh Kumar and R K Naresh (2022) “Studies on vegetative and reproductive attributes of pomegranate (*Punica granatum* L.) Cultivars” Prog. Agric. 22 (2) : 143-149 (2022).
18. **Arvind Kumar**, Vibhu Pandey, khushboo Sharma, Anuj Pal, Devendra Pal & Amit Kumar (2023) “A comparison of apple varieties based on yield and production efficiency under north western plain zones of Uttar Pradesh” Environment Conservation Journal, ISSN 0972-3099 (Print) 2278-5124 (Online)
19. **Arvind Kumar**, Amit Kumar , Vipin Kumar , Bharat Tiwari, Shalini Singh and Vibhu Pandey (2023) “Evaluation of Different Elite Pear (*Pyrus communis* L.) Varieties for North Western Plain Zone of Uttar Pradesh, India” International Journal of Environment and Climate Change, Volume 13, Issue 6, Page 484-492, 2023; Article no.IJECC.98068,ISSN: 2581-8627
20. **Arvind Kumar**, Amit Kumar, Satya Prakash, Shalini Singh, Vibhu Pandey, Dushyant Kumar Raghav & Devendra Pal (2023) “Assessment of different elite mango varieties suitable for

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North western plain zones of Uttar Pradesh” Environment Conservation Journal, ISSN 0972-3099 (Print) 2278-5124 (Online)

21. Mukesh Kumar , Ujjwal Sirohi , Sunil Malik , Satendra Kumar , Gaurav Kumar Ahirwar , Veena Chaudhary, Manoj Kumar Yadav, Jitender Singh, **Arvind Kumar**, Virendra Pal and Satya Prakash (2022) “Methods and Factors Influencing In Vitro Propagation Efficiency of Ornamental Tuberose (Polianthes Species): A Systematic Review of Recent Developments and Future Prospects” Horticulturae 2022, 8, 98.<https://doi.org/10.3390/horticulturae8110998>: Pp 2-27

Projects handled:

H. Externally funded Projects					
Title	Duration	Year	As PI/Co-PI	Funding Agency Name	Amount (Rs. In Lakh)
1. Establishment of Mother plant nurseries for High pedigree planting material of fruit crops.	Three- four installments	2014-15 to 2018	PI	NHB	45.70
2. Validation & Promotion of selective key pest management practices in Mango and Guava	Two years	2018-19	CO- PI	NCIPM (National Centre for Integrated Pest	2.50
3. Eco friendly integrated pest management (IPM) of gladiolus.	Three years	2022-25	CO-PI	Council of science & technology-CST, UP	11.94
4. Establishment of model nursery for fast multiplication of elite clones and new varieties of Mango, Guava and Litchi.	Two years	2006-07 & 2007-08	Co-PI	UPCAR	18.00

Other achievements:

1. Established a block of low chilling varieties of Apple at HRC.
2. Established a block of Dragon fruit at HRC.
3. Established many blocks of improved varieties of Mango at HRC.
4. Established many blocks of improved varieties of Guava at HRC.
5. Established a block of improved varieties of Pear at HRC.
6. Established a block of improved varieties of Peach at HRC.
7. Established a block of improved varieties of Litchi at HRC.
8. Established a high density block of Guava at HRC.
9. Established a block of improved varieties of Lime at HRC.

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10. Established an Evergreen garden at HRC.
11. Established a compact block of rare fruit species at HRC.
12. Established different medicinal plant blocks at HRC.
13. Established a meadow orchard block of Guava at HRC.
14. Established a High density block of Bael at HRC.

(Arvind Kumar)