

SANKET JIJABRAO MORE, PhD, ARS

Scientist (Vegetable Science)

Division of Crop Production | ICAR – Central Tuber Crops Research Institute

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ACADEMIC QUALIFICATIONS

- **Doctor of Philosophy in Horticulture (Vegetable Science).** September 2015. ASPEE College of Horticulture & Forestry, Navsari Agricultural University, Navsari – 396 450, Gujarat. Thesis Title: Line x Tester Analysis over environments in Okra (*Abelmoschus esculentus* L. Moench.). OGPA: 8.50/10. (August 2012 – September 2015)
- **Master of Science in Horticulture (Vegetable Science).** July 2012. ASPEE College of Horticulture & Forestry, Navsari Agricultural University, Navsari – 396 450, Gujarat. Thesis Title: Effect of Transplanting Dates and Mulching on Growth and Yield of Tomato (*Lycopersicon esculentum* Miller) cv. GT-2. OGPA: 8.50/10. (July 2010 – July 2012).
- **Bachelor of Science in Horticulture.** July 2010. ASPEE College of Horticulture & Forestry, Navsari Agricultural University, Navsari – 396 450, Gujarat. OGPA: 8.00/10. (June 2006 – June 2010)

ACHIEVEMENTS/AWARDS

- Recipient of **VICE – CHANCELLOR’S GOLD MEDAL in B.Sc. (Horticulture)** degree for securing Overall Grade Point Average and performance in Extra – Curricular activities in the year 2009 – 10.
- Recipient of **ASPEE FOUNDATION GOLD PLATED SILVER MEDAL in M.Sc. (Horticulture)** for securing highest overall Grade Point Average in the subject of Vegetable Science in the year 2012 – 2013.
- Recipient of **ASPEE FOUNDATION GOLD PLATED SILVER MEDAL in Ph.D. (Horticulture)** for securing highest overall Grade Point Average in the subject of Vegetable Science in the year 2015 – 2016.
- Qualified the **National Eligibility Test (ICAR – NET, 2014 – I)** in the discipline of Vegetable Science for eligibility of Lectureship/ Assistant Professor held on 27th March, 2014.
- Qualified **Agricultural Research Services (ICAR – ARS exam – 2013)** examination in the discipline of Vegetable Science and selected as Scientist in ICAR.
- Recipient of **INSPIRE Fellowship (Junior Research Fellowship)** sponsored by Dept. of Science and Technology (DST), Govt. of India for the period of March 2013 to September 2015.
- Recipient of prestigious The Gujarat Association for The Gujarat Association for Agricultural Sciences, Gujarat, India sponsored **“Best Ph.D. thesis award for 2014-2015”**.
- Award of Appreciation from the Director, ICAR-CTCRI, Chairman and Members of Research Advisory Committee – VIII committee for best research work and publication during 2016 – 2020.

MAJOR AREA OF WORK

- Climate Change: Studies on impact of climate change and devising mitigation and adaptation strategies for sustaining productivity of tuber crops/vegetable crops
- Abiotic Stress Physiology
- Global Change Biology
- Drought studies
- Carbon Isotope Discrimination studies

CURRENT PROJECTS

- Studies on the impact of climate change and devising mitigation and adaptation strategies for sustaining productivity of tuber crops.
- Studies on relationship of Carbon Isotope Discrimination (CID), physiological parameters to assess WUE and identify drought tolerant genotypes in Tropical Tuber Crops.
- Studies on heat stress management in tropical tuber crops.
- Response of tuber crops to elevated CO₂.

STUDENTS GUIDED

- Divya Kumari S. 2017. Evaluation of taro (*Colocasia esculenta*) varieties for drought tolerance based on biochemical parameters. M.Sc. thesis submitted to Kerala University, Thiruvananthapuram, Kerala.

INTERNATIONAL SEMINARS ATTENDED

- Global Conference on Technological Challenges and Human Resources for Climate Smart Horticulture – Issues and Strategies, 28th May – 31st May, 2014, NAU, Navsari, Gujarat.
- International Conference on Tropical Roots and Tubers for Sustainable Livelihood under Changing Agro – Climate (ICTRT – 2013), 9 – 12th July, 2013, CTCRI, Thiruvananthapuram, Kerala.

NATIONAL SEMINARS ATTENDED

- 24th National Conference on Agricultural Marketing, 23 - 25th November, 2010, NAU, Navsari, Gujarat.
- Climate Change and Food Security: Challenges and opportunities for tuber crops (NSCFT), 20 - 22nd January, 2011, CTCRI, Thiruvananthapuram, Kerala.
- National Symposium on Vegetable Biodiversity, 4 - 5th April, 2011, JNKVV, Jabalpur, Madhya Pradesh.
- National seminar on Birds of Gujarat: Present Status and Future Scenario, 22nd January, 2012, Navsari Agricultural University, Navsari, Gujarat.
- National Seminar on New Frontiers and Future Challenges in Horticultural Crops”, NFFCHC, 15 – 17th March, 2012, Punjab Agricultural University, PAU, Ludhiana, Punjab.
- National conference on tropical tuber crops for sustenance and welfare of tribal communities. 20 – 22 October, 2016, organized by ICAR – Central Tuber Crops Research Institute, Thiruvananthapuram, Kerala.
- National Environment and Climate Change Congress (NECCC – 2018), 20-22 March 2018, Directorate of Environment and Climate Change, Govt. of Kerala, Thiruvananthapuram, Kerala.
- National Seminar on Advances and Applications in Plant Science, 6 – 8 February 2019, Department of Botany, University of Kerala, Thiruvananthapuram, Kerala.

- National Conference of Plant Physiology (NCP-2019): Plant Productivity and Stress Management, 19-21 December 2019, Department of Plant Physiology, Kerala Agricultural University, Thrissur.

STATE LEVEL SEMINAR ATTENDED

- State Level Seminar of Library and Information Science on “Role of Library in Digital Era”, 17th September, 2011, NAU, Navsari, Gujarat.

WORKSHOPS/TRAININGS ATTENDED

1. National Workshop on FLORAL CRAFT: The Art and Technique for Value Addition in Flowers, 12 – 13th April, 2012, NAU, Navsari, Gujarat.
2. Mobigam: Language on the Move in Gujarat, 28th June, 2013, Funded by British Academy and Organized by NMCA, NAU, Navsari, Gujarat.
3. Leadership and Entrepreneurship Development Programme, 3 – 4th October, 2013, Jointly organized by National Council for Climate Change, Sustainable Development and Public Leadership and Navsari Agricultural University, Navsari, Gujarat.
4. Model training course on Root and tuber crops based integrated farming system: A way forward to address climate change and livelihood improvement, 19 – 26 September, 2016, organized by Regional Centre, ICAR – CTCRI, Bhubaneswar.
5. Summer school on Recent Advances in Abiotic Stress Management for Climate Smart Agriculture, 08 – 28 September, 2017. Organized by ICAR – National Institute of Abiotic Stress Management, Baramati, Pune, Maharashtra.
6. Physiological and Molecular Aspects of Improving Crop Adaptation to Drought, 27 February – 11 March, 2017 under Niche Area of Excellence Programme of ICAR, New Delhi organized by the Department of Crop Physiology, University of Agricultural Sciences, GKVK, Bengaluru.
7. Training Programme on Analysis of Experimental Data, 22 – 27 August 2019, organized by ICAR-national Academy of Agricultural Research Management, Hyderabad, Telangana.
8. Off-Campus Training Programme on Innovative Extension Approaches for Horticultural Crops with Special Reference to Tuber Crops, 19 – 22 November 2019, ICAR- Central Tuber Crops Research Institute, Thiruvananthapuram, Kerala.
9. National workshop on Tools and Techniques in Advanced Plant Science Research, 5 – 12 December 2019, Department of Botany, University of Kerala, Thiruvananthapuram, Kerala.

MEMBERSHIPS

- Life Member, the Horticultural Society of India (Indian Journal of Horticulture).
- Life Member, Society for Advancement in Science and Rural development (Trends In Biosciences).
- Life Member, Society of Extension Education (Indian Research Journal of Extension Education).

PUBLICATION DETAILS

1) Full Length Research Papers:

1. S. J. More; D. R. Bhandari; S. J. Patil; Y. R. Kadam and J. C. Patel. 2013. Effect of transplanting dates and mulching on fruit characters, yield and quality of tomato (*Lycopersicon esculentum* Mill.) cv. Gujarat Tomato – 2. *Crop Research*, 46 (1, 2 & 3): 185 – 187.

2. Y. R. Kadam, A. I. Patel, P. P. Chaudhari, J. M. Patel and S. J. More. 2013. Combining ability study in vegetable cowpea [*Vigna unguiculata* (L.) Walp.]. *Crop Research*, 45 (1, 2 & 3): 196 – 201.
3. Y. R. Kadam, A. I. Patel, J. M. Patel, P. P. Chaudhari and S. J. More. 2013. Heterosis study in vegetable cowpea [*Vigna unguiculata* (L.) Walp.]. *Crop Research*, 45 (1, 2 & 3): 202 – 205.
4. S. J. More; J. H. Gohil; D. R. Bhanderi; S. J. Patil and G. S. Tekale. 2014. Productivity and profitability of tomato (*Lycopersicon esculentum* Mill.) influenced by various transplanting dates and mulches. *Trends in Biosciences*, 7 (17): 2376 – 2381.
5. N. G. Devulkar; D. R. Bhanderi; S. J. More and B. A. Jethava. 2015. Optimization of yield and growth in onion through spacing and time of planting. *Green Farming International Journal*, 6(2): 305 – 307.
6. Kirti Choudhary; S. J. More and D. R. Bhanderi. 2015. Impact of bio – fertilizers and chemical fertilizers on growth and yield of okra (*Abelmoschus esculentus* L. Moench). *The Ecoscan*, 9(1 & 2): 67 – 70.
7. S. J. More, K. N. Chaudhari, A. I. Patel and Dhawani Patel. 2015. Combining Ability Analysis for Fruit Yield and Yield Attributing Traits in Okra (*Abelmoschus esculentus* L. Moench). *Trends in Biosciences*, 8(14): 3630 – 3637.
8. S. J. More, K. N. Chaudhari, D. R. Bhanderi, S. N. Saravaiya and S. L. Chawla. 2015. Heterosis Study in Okra (*Abelmoschus esculentus* L. Moench). *Trends in Biosciences*, 8(12): 3252 – 3255.
9. V. D. Kalariya; V. K. Parmar; N. M. Patel and More Sanket. 2016. Impact of Seed Treatment of Plant Growth Regulators on Seed Germination and Growth of Okra (*Abelmoschus Esculentus* (L.) Moench) cv. GAO – 5. *Multilogic In Science*, V(XV): 304 – 308.
10. J. Suresh Kumar, Sanket J. More, V. Ravi, G. Byju and James George. 2016. Leaf Area Estimation in Yam Bean (*Pachyrrhizus erosus* L.) using Linear Measurement of Leaf Parameters. *Journal of Root Crops*, 42(2): 86 – 89.
11. Sanket J. More, Chaudhari, K.N., Vaidya, G.B. and Chawla, S.L. 2017. Estimation of Hybrid Vigour for Fruit Yield and Quality Traits of Okra [*Abelmoschus esculentus* (L.) Moench] Through Line x Tester Analysis Carried Over Environments. *Int. J. Curr. Microbiol. App. Sci.*, 6(7): 4101-4111. <https://doi.org/10.20546/ijcmas.2017.607.425>
12. Sanket J. More, Chaudhari, K.N., Vaidya, G.B. and Chawla, S.L. 2017. Multi-Environment Analyses of Genetic Components and Combining Abilities in Relation to Heterosis in Okra [*Abelmoschus esculentus* (L.) Moench]. *Int. J. Curr. Microbiol. App. Sci.*, 6(12): 2835-2842. <https://doi.org/10.20546/ijcmas.2017.612.330>
13. Sanket J. More, Ravi, V. and Raju, S. 2017. Management of heat stress to enhance growth, photosynthesis and corm yield of elephant foot yam [*Amorphophallus paeoniifolius* (Dennst.)]. *Sci. Agri.*, 19 (2): 47-54. DOI: 10.15192/PSCP.SA.2017.19.2.4754
14. Dhawani Patel, Sudha Patil, Sanket J. More and Trupti P. Dohiya. 2018. Comparative Effect of Physical and Chemical Mutagens in Inducing Variability in Gladiolus Variety ‘Psittacinus Hybrid’. *Int. J. Curr. Microbiol. App. Sci.*, 7(1): 645-652. <https://doi.org/10.20546/ijcmas.2018.701.078>
15. Sanket J. More, K.N. Chaudhari, G.B. Vaidya and S.L. 2018 Chawla. Genotype x Environment Interaction and Stability Analysis for Earliness, Seed Yield and Fruit Yield in Okra Using the Additive Main Effect and Multiplicative Interaction (AMMI). *Int. J. Curr. Microbiol. App. Sci.*, 7(3): 373-383. <https://doi.org/10.20546/ijcmas.2018.703.043>
16. Ravi V., Sanket J. More, Saravanan R., Pallavi Nair K. and Byju G. 2018. Evaluation of photosynthetic efficiency of elephant-foot yam (*Amorphophallus paeoniifolius*) to photon flux density and elevated CO₂. *Current Horticulture*, 6(1): 55–63.

17. Ravi V., Sanket More, R. Saravanan, G. Byju, M. Nedunchezhiyan, A. Asha Devi and K. Pallavi Nair. 2019. Potential increase in photosynthetic response of taro (*Colocasia esculenta* L.) to photon flux density and elevated CO₂. *J. Environment Biology*, 40:111-118. DOI: 10.22438/jeb/40/1/MRN-786
18. J. Suresh Kuamr, Sanket J. More, G. Byju, S. Sunitha, S.S. Veena, M. Nedunchezhiyan and V. Ravi. 2019. Effect of new generation herbicides on weed management, corm yield and economics of elephant foot yam [*Amorphophallus paeoniifolius* (Dennst.) Nicolson]. *International Journal of Chemical Studies*, 7(3): 1213-1218.
19. Suresh Kumar J., Sofia Solomon, Sanket J. More and Ravi V. 2019. Effect of herbicide application on biochemical changes in weeds commonly infesting tuber crops growing fields. *International Journal of Chemical Studies*, 7(5): 677-682.
20. Sanket J. More, S. Divya Kumari, J. Suresh Kumar and Ravi, V. 2019. Water Stress Revealed Physiological and Biochemical Variations in Taro [*Colocasia esculenta* (L.) Schott] Varieties/Genotypes. *Int. J. Curr. Microbiol. App. Sci.*, 8(08): 2242-2253. doi: <https://doi.org/10.20546/ijcmas.2019.808.260>
21. D. Jaganathan, Sheela Immanuel, Sanket J. More and P. Sethuraman Sivakumar. 2019. Assessment of Livelihood Capitals of Sweet Potato and Paddy Growers in Karnataka. *Indian Res. J. Ext. Edu.*, 19 (4): 43-48.
22. V. Ravi, Ancy P., Saravanan R., Byju G. and Sanket J. More. 2020. Evaluation of photosynthetic efficiency of yam bean (*Pachyrhizus erosus* L.) at saturating photon flux density under elevated carbon dioxide. *Physiol. Mol. Biol. Plants*. 26(1):189–194. <https://doi.org/10.1007/s12298-019-00719-8>
23. Sanket J. More, V. Ravi, Saravanan Raju and Suresh Kumar J. The quest for high yielding drought-tolerant cassava variety. *Journal of Pharmacognosy and Phytochemistry (Under Review)*
24. K. Susan John, J. Sreekumar, M.N. Sheela, S.U. Shanida Beegum, Sanket J. More and G. Suja. Genotypic variation in cassava in the selection of K efficient genotypes through the cluster and principal component analysis. *Physiology and Molecular Biology of Plants (Under Review)*

2) Review

1. V. Ravi, G. Suja, R. Saravanan and Sanket J. More. Advances in Cassava-Based Multiple Cropping Systems. *Horticultural Reviews*. **(Accepted)**.

3) Short Communication

1. K. D. Desai; S. N. Saravaiya; N. B. Patel; B. V. Padhiar; S. J. More and G. S. Tekale. 2013. Evaluation of orange – fleshed sweet potato genotypes (*Ipomoea batatas* L.) under South Gujarat conditions. *Journal of Root Crops*, 39(2): 232 – 233.
2. S. N. Saravaiya; B. N. Chaudhari; S. J. More; G. S. Tekale and S. D. Jarande. 2013. Performance of greater yam (*Dioscorea alata* L.) under different staking systems. *Journal of Root Crops*, 39(2): 250 – 254.
3. N. B. Patel; K. D. Desai; J. C. Patel; S. N. Saravaiya; G. S. Tekale and S. J. More. 2013. Effect of plant density and corm size on the growth and yield of elephant foot yam (*Amorphophallus paeoniifolius* (Dennst.) Nicolson). *Journal of Root Crops*, 39(2): 255 – 256.

4) Popular Articles

1. Sanket J. More, Ravi, V., Namrata Giri, Suresh Kumar, J. and Arutselvan, R. 2018. Cassava Post Harvest Physiological deterioration (PPD) a Major Abiotic Stress. *Agriculture World*, 4(2): 84 - 87.

2. Sanket J. More, Ravi, V., Namrata Giri, Suresh Kumar, J. and Arutselvan, R. 2017. Arrowroot – a multipurpose crop. *Agriculture World*, 3(8): 66-69.
3. Sanket J. More, Archana Mukherjee and G. Byju. 2017. Poshak Tatvon Ka Khajana Hain Kand Faslen. *Kheti*, 70(7): 45-46.
4. Sanket J. More and James George. 2017. Minisett Technique – An evolutionary technique for the cultivation of tuber crops (*Kand faslon ki kheti me ek krantikari taknik*: In Hindi) *Bagwani*, 8: 32-35.
5. Sanket J. More, Mukherjee, A. and Byju, G. 2017. *Poshak Tatvon Ka Khajana Hain Kand Faslen* (In Hindi). *Kheti*, 70(7): 45-46.
6. Sanket J. More, Ravi, V., Namrata Giri, Suresh Kumar, J. and Arutselvan, R. 2018. Cassava Post harvest physiological deterioration (PPD): a Major Abiotic Stress. *Agriculture World*, 4(2): 84-87.
7. Sanket J. More, Ravi, V., Namrata Giri, Suresh Kumar, J. and Arutselvan, R. 2017. Arrowroot – a multipurpose crop. *Agriculture World*, 3(8): 66-69.
8. Arutselvan, R., Kesava Kumar, H., Sanket J. More and Sangeetha, B. G. 2018. Managing taro leaf blight. *Indian Horticulture*, 63(6): 51.
9. Arutselvan, R., Sanket J. More and Makesh Kumar, T. 2018. Sweet potato feathery mottle virus (SPFMV) - An overview. *Agriculture World*, 4(11): 66-68.
10. Suresh Kumar, J., Sunitha, S., Nedunchezhiyan, M. and Sanket J. More. 2018. Proper weed control for Better tubers. *Krishijagran*, 4(11): 52-55.
11. Namrata Giri and Sanket J. More. 2018. Nutritional Value of Curcuma. *Agriculture World*, 4(11): 60-62.
12. Sanket J. More and Byju, G. 2019. Micro-food for tropical tuber crops (Hindi). *Krishi Jagran*, 25(1): 68-69.
13. Sanket J. More and Byju, G. 2019. Site Specific Nutrient Management in tropical tuber crops (Hindi). *Krishi Chetna*, 2: 86-88.
14. Namrata A. Giri and Sanket J. More. Tuber crops for Food security. Agrowon Marathi news paper. January, 2020.
15. Namrata A. Giri and Sanket J. More. Recent advances in tropical tuber crop research. Agrowon Marathi news paper. January, 2020.
16. Sanket J. More and Namrata A. Giri. Improved cultivation practices of cassava. Agrowon Marathi news paper. February, 2020.
17. Sanket J. More and Namrata A. Giri. Improved varieties of cassava. Agrowon Marathi news paper. February, 2020.
18. Namrata A. Giri and Sanket J. More. Nutritional importance of cassava. Agrowon Marathi news paper. March 2020.
19. Namrata A. Giri and Sanket J. More. Value addition technologies of cassava tuber. Agrowon Marathi news paper. March, 2020.

5) Book Chapters

1. Sanket J. More, Ravi, V. and Saravanan, R. 2019. Tropical tuber crops. In: *Postharvest Physiological Disorders in Fruits and Vegetables*, Sergio Tonetto de Freitas and Sunil Pareek (Eds.). CRC Press, Boca Raton. pp. 719-757. <https://doi.org/10.1201/b22001>
2. Sanket J. More, Ravi, V. and Saravanan, R. Carbon isotope discrimination studies in plants for Abiotic stress. In: *Climate Change and Crop Stress*, Shanker Arun, Shanker Chitra, Anand Anjali, Maheswari M. (Eds.). Elsevier. **(Accepted, In Press)**.
3. Kirti Bardhan, Vipulkumar B Parekh, Suchismita Jena, Sanket J. More and Sagar K. Jadav. Root system architectural and growth responses of crop plants to mineral nutrition under moisture stress

and its implications in drought tolerance. In: *Climate Change and Crop Stress*, Shanker Arun, Shanker Chitra, Anand Anjali, Maheswari M. (Eds.). Elsevier. **(Accepted, In Press)**.

6) Books

1. Sanket J. More and Darshan Bhandari. 2014. Effect of transplanting dates and mulching on yield of tomato. Scholar's Press. p. 98. ISBN: 978-3-639-70956-8.
2. Sanket J. More and Kamlesh Chaudhari. 2016. Genetic of yield components of okra (*Abelmoschus esculentus* L. Moench): Genetical analysis of okra. Scholar's Press. p. 306. ISBN: 978-3-659-84248-1.

7) Paper/Posters presentation in Seminar/ Conference/ Symposia/ Workshop

1. Sanket J. More. 2014. Responses of Vegetables to micronutrients application. 6th Swadeshi Prem Jagriti Sangosthi – 2014. Global Conference on Technological Challenges & Human Resources for Climate Smart Horticulture – Issues and Strategies. 28-31 May 2014. Navsari Agricultural University, Navsari, Gujarat (Paper).
2. J. Suresh Kumar, Sanket J. More, V. Ravi, G. Byju and James George. Leaf Area Estimation in Yam Bean (*Pachyrrhizus erosus* L.) using Linear Measurement of Leaf Parameters. National Conference on Tropical Tuber Crops for the Sustenance and welfare of Tribal Communities. 20-22 October 2016. ICAR-Central Tuber Crops Research Institute, Thiruvananthapuram, Kerala (Poster).
3. Sanket J. More, V. Ravi and Saravanan Raju. 2018. Exogenous application of Salicylic acid ameliorates heat stress tolerance in elephant foot yam [*Amorphophallus paeoniifolius* (Dennst.)] by up-regulating plant growth and photosynthetic activities. National Environment and Climate Change Congress – 2018. 20–22 March, 2018, Thiruvananthapuram, Kerala. Organized by Directorate of Environment and Climate Change (DoECC) in collaboration with Energy Management Centre (EMC), Thiruvananthapuram, Kerala (Paper).
4. Sanket J. More, Ravi, V. and Saravanan, R. 2019. Assessment of intrinsic water use efficiency (WUE_i) and carbon isotope discrimination to determine their relationship with storage root yield in cassava. National Seminar on Advances and Applications in Plant Science, 6–8 February 2019, Department of Botany, University of Kerala, Thiruvananthapuram, Kerala (Paper).
5. Sanket J. More, V. Ravi and Suresh Kumar J. 2019. Cassava under water deficit stress: Differential Carbon isotope discrimination, 19 – 21 December 2019, National Conference of Plant Physiology NCPP-2019 Plant Productivity and Stress Management, Department of Plant Physiology, Kerala Agricultural University, Thrissur.
6. Sanket J. More, V. Ravi, Saravanan Raju and Suresh Kumar J. 2020. The quest for high yielding drought-tolerant cassava variety, International Web-Conference on New Trends in Agriculture, Environmental & Biological Sciences for Inclusive Development (NTAEBSID-2020), 21-22 June, 2020.

SOCIAL MEDIA ACCOUNTS

- RESEARCHGATE: https://www.researchgate.net/profile/Sanket_More3
- FACEBOOK: <https://www.facebook.com/sanket.more.737>
- GOOGLE SCHOLAR: <https://scholar.google.com/citations?user=5yBrTTAAAAAJ&hl=en>
- ORCID: <https://orcid.org/0000-0002-9672-4083>