Publications

2012

- Patel, V. P. and Pathak, A. R. (2012). Seed Germination and Seedling Growth Response of upland rice genotypes to water potential treatments. *Green Farming*, 3(6): 732–734.

2013

- Patel, R. P., Bhoya, R. R., Patel, N. A., Sowane, S., Mehta, B. P., Patel, V. P. and Mahatma, L. (2013). In vitro studies of non-target effect of carbendazim (12%) and Mancozeb (63%) coated ammonium nitrophosphate. In: *34th Annual Conference and Symposium on Crop Disease Management*, NAU, Navsari, pp. 30.
- Patel, V. P., Patel, V. S. and Pathak, A. R. (2013). Genetic analysis of quantitative traits over environments in upland rice (*Oryza sativa* L.). *Green Farming*, 4(3): 253–257.

2014

- Kasture, A. G., Patel, D. A., Patel, R. K., Salunkhe, M. D. and Patel, V. P. (2014). Genetic analysis for seed yield and its components in castor (*Ricinus communis* L.). *Trends in Biosciences*, 7(5): 368–372.
- Kedar Nath, Solanky, K. U. and Kumawat, G. L. (2014). Effective approaches of potential bioagent, phytoextract, fungicide and cultural practices for management of banana fruit rot disease. *J. Plant Pathol. Microb.*, 5: 246.
- Kedar Nath, Solanky, K. U., Madhu Bala and Kumawat, G. L. (2014). Post-harvest deterioration of banana fruits and its control using fungicides. *International Journal of Plant Protection*, 7(2): 245–248.
- Patel, V. P., Mehta, H. D., Chaudhari, P. R. and Patel, A. P. (2014). Effect of nutrient management in SRI cultivation under South Gujarat condition. In: *National Seminar on Organic Farming*, NAU, Navsari.

2015

- Chaudhari, P. R., Patel, A. P., Patel, V. P., Desai, L. J., Patel, J. V., Chaudhari, D. R. and Tandel, D. H. (2015). Growth and yield attributes of rice as influenced by age of seedling and fertilizer management. *The Ecoscan*, 9(1-2): 471–473.

- Chaudhari, P. R., Patel, A. P., Patel, V. P., Desai, L. J., Patel, J. V., Chaudhari, D. R. and Tandel, D. H. (2015). Effect of age of seedling and fertilizer management on yield, nutrient content and uptake of rice. *The Bioscan*, 10(1): 351–353.
- Chaudhary, M. M., Bhanvadia, A. S. and Parmar, P. N. (2015). Effect of INM on cabbage. *Trends in Biosciences*, 8(8): 2164–2168.
- Kasture, A. G. and Patel, V. P. (2015). Genetic analysis of quality, yield traits in rice. *Trends in Biosciences*, 8(19): 5334–5340.
- Kasture, A. G., Patel, V. P. and Vanave, P. B. (2015). Genetic components study in rice. *Trends in Biosciences*, 8(1): 2116–2121.
- Kedar Nath and Madhu Bala (2015). Groundnut yield maximization. *J. Exp. Biol. Agric. Sci.*, 3(3): 241–245.
- Kedar Nath and Madhu Bala (2015). Performance of groundnut under constraints. *Int. J. Dev. Res.*, 5(4): 4261–4263.
- Kedar Nath, Solanky, K. U. and Madhu Bala (2015). Banana fruit rot management. *J. Plant Pathol. Microb.*, 6: 298.
- Kedar Nath et al. (2015). Defense enzymes in banana fruit rot. *J. Plant Pathol. Microb.*, 6: 263.
- Patel, A. R., Patel, V. P., Parmar, V. N. and Kasture, A. G. (2015). Genetic analysis in aerobic rice. *Ecology Environment and Conservation*, 21: 125–129.
- Patel, V. P., Deshmukh, S., Patel, A. and Ghosh, A. (2015). Use of seaweed sap in paddy. *Trends in Biosciences*, 8(1): 201–205.
- Patel, V. P., Mehta, H. D. and Patel, A. (2015). Nutrient management in SRI. *Trends in Biosciences*, 8(1): 248–250.

2016

- Bekriwala, T. H., Kedar Nath and Chaudhary, D. A. (2016). Age effect on groundnut stem rot. *J. Plant Pathol. Microb.*, 7: 386.
- Parmar, P. N., Bhanvadia, A. S., Chaudhary, M. M. and Patel, A. P. (2016). Spacing and nitrogen in okra. *J. Pure Appl. Microbiol.*, 10(1): 485–488.
- Patel, A. P. et al. (2016). Irrigation and sulphur in greengram. *J. Pure Appl. Microbiol.*, 10(1): 795–798.

2017

- Pathak, A. R., Patel, V. P. and Parmar, P. N. (2017). Rice management for doubling income. *Shodh Chintan*, 9: 31–36.

2018

- Balat, J. R. et al. (2018). Variability in F2 rice. *Int. J. Pure Appl. Biosci.*, 6(1): 1021–1027.
- Chaudhary, D. A. et al. (2018). Alternaria leaf blight management. *Indian Phytopathology*, 71(4): 543–548.
- Chaudhary, M. M. et al. (2018). INM in cabbage. *Int. J. Agric. Sci.*, 10(9): 5931–5933.
- Makwana, R. R. et al. (2018). Heterosis in rice. *Int. J. Pure Appl. Biosci.*, 6(2): 1477–1482.
- Makwana, R. R. et al. (2018). Gene effects in rice. *Int. J. Pure Appl. Biosci.*, 6(2): 1488–1493.
- Patel, H. R. et al. (2018). Genetic variability in rice. *Int. J. Pure Appl. Biosci.*, 6(5): 863–871.
- Patel, H. R. et al. (2018). Correlation and path analysis in rice. *Int. J. Chem. Stud.*, 6(2): 2327–2331.

2019

- Patel, V. P., Parmar, P. N. and Gami, M. R. (2019). Aerobic rice performance. *Green Farming*, 10(4): 530–532.

2020

- Kedar Nath and Patel, V. P. (2020). Rice false smut status in South Gujarat. *International Conference*, New Delhi.
- Singh, B. N. and Patel, V. P. (2020). Heritability in upland rice. *Trends in Biosciences*, 13(12): 782–788.

2021

- Patel, S. N. et al. (2021). Hybrid purity testing in rice. *The Pharma Innovation Journal*, 10(8): 1358–1362.
- Singh, B. N. and Patel, V. P. (2021). Heterosis in rice. *The Pharma Innovation Journal*, 10(5): 655–660.

- Vishruta, D. Babariya and Kedar Nath (2021). Chickpea collar rot response. *J. Exp. Agric. Int.*, 43(6): 9–18.

2022

- Darshan N. Patel et al. (2022). Coriander powdery mildew evaluation. *Int. J. Seed Spices*, 12(2): 7–14.
- Kedar Nath and Patel, V. P. (2022). Collar rot in groundnut. *Int. J. Trop. Agric.*, 40: 159–165.
- M. R. Prajapati et al. (2022). Genetic variability in rice. *Electronic J. Plant Breeding*, 13(3): 983–990.
- Patel, S. et al. (2022). Heritability in rice. *The Pharma Innovation Journal*, 11(11): 1605–1608.
- Patoliya, P. R. and Kedar Nath (2022). Seedling blight management. *Int. J. Trop. Agric.*, 40: 425–433.
- Prasant Patoliya and Kedar Nath (2022). Sowing date effect. *Int. J. Plant Soil Sci.*, 34: 625–629.
- Satasiya, P. N. et al. (2022). Genetic analysis under salinity. *The Pharma Innovation Journal*, 11(9): 2269–2274.
- Sharma, D. D. et al. (2022). Heterosis in rice hybrids. *The Pharma Innovation Journal*, 11(10): 1367–1377.
- Patel, V. P. and Parmar, P. N. (2022). Organic rice yield. *Int. J. Plant Soil Sci.*, 34: 1606–1610.

2023

- Darshan N. Patel et al. (2023). Powdery mildew management. *Biological Forum*, 15(9): 217–221.
- Kedar Nath and Patel, V. P. (2023). Rice seedling rot fungicides. *Oryza*, 60(2): 273–280.
- Vishruta, D. Babariya and Kedar Nath (2023). Chickpea disease management. *Agric. Res. J.*, 60(6).

2024

- D. P. Patel et al. (2024). Trait association in rice. *JABB*, 27(10): 1093–1103.

- Parmar, P. N. et al. (2024). Groundnut + sweet corn economics. *Biological Forum*, 16(7): 172–175.
- Parmar, P. N. et al. (2024). Nutrient dynamics in intercropping. *Int. J. Plant Soil Sci.*, 36(9): 690–699.
- Patel, V. P. et al. (2024). Lalkada Gold rice variety. *Biological Forum*, 16(10): 81–85.
- Prajapati, M. R. et al. (2024). Molecular markers for salinity tolerance. *JABB*, 27(8): 1373–1389.

2025

- D. P. Patel et al. (2025). Development of F5 lines in rice. *Plant Archives*, 25.
- Parmar, P. N. et al. (2025). Groundnut intercropping intensification. *Indian J. Agric. Res.*, 1–7.
- Manoj, C. S., Patel, Vipul P., Chirag, P. C., Patel, V. B., Denish, S., Himani, P. V., …Patel, R. K. (2025). Molecular characterization and phenotypic selection for blast resistance and yield enhancement in rice (Oryza sativa L.). *Plant Science Today., eISSN 2348-1900*
- Sharma, D. D., Patel, V. P., Chaudhary, A., Modha, K. G., Parekh, V. B., Naik, I. S. … Kesawat, M. S. (2026). Unraveling the genetic basis of fertility restoration in hybrid rice: insights from CMS lines and male restorer analyses. *Plant Production Science*, *29*(1), 105-115.
- D. P. Patel, V. P. Patel, V. B. Patel, R. K. Patel, K. G. Modha, Alok Shrivastava, M. R. Prajapati, Naresh Chaudhary, V. B. Rana, Saryu Trivedi, Ashita Patel and Harshita Patel (2025). "Development and evaluation of F_5 breeding lines for yield and yield attributes in rice (*Oryza sativa* L.). *Plant Archives an international journal*, ISSN:0972-5210 /Vol25
- Parmar, P. N.; Virdia, H. M.; Patel V. P.; Khatana, K. J. 2025. Growth attributes, yield attributes and yield of groundnut as influenced by intensification through groundnut (*Arachis hypogaea* L.)- sweet Corn (*Zea mays* var. *saccarata*) intercropping system. *Indian Journal of Agricultural Research*, :1-7.
- Chaudhary, N., Patel, V. P., Pandya, H., Rana, V. B., Patel, V. B., Saha, S., ... & Baria, K. M. K. Estimation of narrow-sense heritability and genetic advance for

yield and component traits in rice (Oryza sativa L.)., *International Journal of Advanced Biochemistry Research 2025*; SP-9(8): 773-778

- Chaudhary, N., Patel, V. P., Pandya, H., Rana, V. B., Patel, V. B., Gohil, V., ... & Narwade, A. V. (2025). Trait-Specific Heterosis and Inbreeding Depression Patterns in Rice: Implications for Hybrid Breeding. *Journal of Advances in Biology & Biotechnology*, *28*(8), 1453-1462.
- Patel, S. R.; Patel, R. K.; Patel, V. P and Rana, V. B. (2025). Genetic analysis of variability, heritability and genetic advance in F2 segregating population of rice under drought condition. International Journal of Advanced Biochemistry Research, 9(1): 505-509.
- Patel, S. R.; Patel, R. K.; Patel, V. P and Rana, V. B. (2025). Estimation of genetic variability, heritability, and genetic advance for drought-tolerant traits in an F2 mapping population of rice. International Journal of Research in Agronomy, 8(1): 338-342.