



Dr. N. J. Patel

Qualification : Ph.D.

Designation : Associate Professor

Experience : 26 Years

Specialized Subject : Biochemistry

Personal Details :

E mail

njpatel@aau.in

njpatel1967@gmail.com

Research publications

Research papers published 23

Paper presented in International conference 02

Paper presented at symposia/seminar 15

Books 02

Laboratory Manual 02

Number of P.G. Students guided

M.Sc. : 06

Number of P.G. Students under guidance

M.Sc. : 02

Ph.D. : 01

Research Paper List

Sr. No.	Title
1	Litoriya NS, Dilraj Kaur, Patel NJ and Talati JG (2010). Varietal identification of chilli (<i>Capsicum annuum</i> L.) by electrophoretic technique. <i>Indian J Agric Biochem</i> , 23(1): 36-40.
2	Modi, A. R., Shukla, Y. M., Litoriya, N. S., Patel, N. J. , & Narayan, S. (2011). Effect of gibberellic acid foliar spray on growth parameters and stevioside content of <i>ex vitro</i> grown plants of <i>Stevia rebaudiana</i> Bertoni. <i>Medicinal Plants</i> , 3(2), 157-160.
3	Suthar KP, Bhatnagar R, Shukla YM, Patel NJ , Suthar VP and Patel JP (2012). Assessment of genetic diversity among chickpea genotypes using RAPD, protein profiling and isozyme markers. <i>Indian Journal of Agricultural Biochemistry</i> , 25(1) : 25-30.

4	Suthar, K.P., Bhatnagar, R., Shukla, Y.M., Suthar, V.P., Kadam, S.D., & Patel, N.J. (2012). Genetic diversity assessment in chickpea genotypes using STMS. <i>Legume Research</i> , 35 (4): 285-293.
5	Ginoya, C. M., Gohel, N. M., & Patel, N. J. (2014). Effect of fruit rot [<i>Alternaria alternate</i> (Fr.) Keissler] disease on biochemical parameters in chilli varieties with different levels of resistance. <i>Trends in Biosciences</i> , 7 (24): 4452-4457.
6	Galani, J. H., Gupta, P. H., Shah, A. K., Patel, N. J., & Talati, J. G. (2015). Profiling of StvacINV1, Bam1 and INH2 α expressions in relation to acid invertase and β -amylase activities during development of cold-induced sweetening in Indian potato (<i>Solanum tuberosum</i> L.) tubers. <i>American Journal of Potato Research</i> , 92 , 603-608
7	Gandhi, K., Chaudhary, N., Litoriya, N., Patel, N. J. , & Talati, J. G. (2015). Identification of Cotton (<i>Gossypium herbaceum</i> L.) Genotypes using electrophoretic techniques. <i>Indian Journal of Agricultural Biochemistry</i> , 28 (2), 122-127
8	Hubert, G. Y. J., Gupta, P. H., Patel, N. J. , Shah, A. K., Acharya, R. R., & Talati, J. G. (2015). Molecular characterization of Indian potato (<i>Solanum tuberosum</i> L.) Varieties for cold-induced sweetening using SSR markers. <i>Journal of Plant Sciences</i> , 3 (4), 191-196.
9	Kandoliya, U. K., Marviya, G. V., Patel, N. J. , Vakharia, D. N., & Golakiya, B. A. (2015). Effect of drought at different growth stage on carbohydrates and lipids composition of groundnut (<i>Arachis hypogaea</i> L.) pod. <i>International Journal of Current Research and Academic Review</i> , 3 , 281-287.
10	Patel, N.J. , Kandoliya, U.K., & Talati JG (2015). Induction of phenol and defence-related enzymes during wilt (<i>Fusarium udum</i> Butler) infestation in pigeonpea. <i>International Journal of Current Microbiology and Applied Science</i> , 4 (2), 291-299.
11	Pooja H. Gupta, Mounil C. Mankad, Jayant G. Talati, Nilesh Patel and Armi Patel (2015). Identification and quantification of seed protein fractions from maize inbred lines by differential solubility. <i>Green Farming</i> Vol. (6), 1219-1222.
12	Galani, J. H., Gupta, P. H., Patel, N. J. , Shah, A. K., & Talati, J. G. (2016). Effect of storage temperature on carbohydrate metabolism and development of cold-induced sweetening in Indian potato (<i>Solanum Tuberosum</i> L.) Varieties. <i>Journal of Food Biochemistry</i> , 40 (1), 71-83.
13	Kotecha, A. V., Dhruve, J. J., Patel, N. J. , & Vihol, N. J. (2016). Influence of micronutrients and growth regulators on the performance of cabbage quality. <i>Adv. Res. J. Crop Improv.</i> ; 7 (1), 46-51.
14	Mayank C. Bogharaa, Haresh L. Dhaduka, Sushil Kumar, Mithil J. Parekhb, Nilesh J. Patel , Ramavtar Sharma (2016). Genetic divergence, path analysis and molecular diversity analysis in cluster bean (<i>Cyamopsis tetragonoloba</i> L. Taub.) <i>Industrial Crops and Products</i> , 89 , 468–477.
15	Galani, J. H. Y., Mankad, P. M., Shah, A. K., Patel, N. J. , Acharya, R. R., & Talati, J. G. (2017). Effect of storage temperature on vitamin C, total phenolics, UPLC phenolic acid profile and antioxidant capacity of eleven potato (<i>Solanum tuberosum</i>) varieties. <i>Horticultural Plant Journal</i> , 3 (2), 73-89.
16	Galani, J. H., Patel, J. S., Patel, N. J. , & Talati, J. G. (2017). Storage of fruits and vegetables in refrigerator increases their phenolic acids but decreases the total phenolics, anthocyanins and vitamin C with subsequent loss of their antioxidant capacity. <i>Antioxidants</i> , 6 (3), 59.
17	Patel, J. S., Japda, A. R., Dhruve, J. J., & Patel, N. J. (2017). Antioxidant Enzymes in leaves of susceptible and resistant okra genotypes against YVMV. <i>International Journal of Current Microbiology and Applied Sciences</i> , 6 (2), 1540-1550.

18	Joseph H.Y. Galani, Nilesh J. Patel , Jayant G. Talati (2017). Acrylamide-forming potential of cereals, legumes and roots and tubers analyzed by UPLC-UV. <i>Food and Chemical Toxicology</i> , 108, 244-248.
19	Patel, J. S., Japda, A. R., Dhruve, J. J., & Patel, N. J. (2017). Antioxidant Enzymes in Leaves of Susceptible and Resistant Okra Genotypes against YVMV. <i>Int. J. Curr. Microbiol. App. Sci</i> , 6(2), 1540-1550.
20	Dhruv, J. J., Patel, N. J. , & Talati, J. G. (2019). Impact of benzyl adenine on metabolic activities of wheat under PEG induced water stress. <i>Indian Journal of Agricultural Biochemistry</i> , 32 (1), 115-121.
21	Dhruv, J. J., Patel, N. J. , & Parmar, S. (2019). Nutraceutical Importance of Vegetables and Their Use for Human Health: A Review. <i>Indian Journal of Agricultural Biochemistry</i> , 32(2), 132-142.
22	Ram Niwas Choudhary, Kinjal J Suthar and NJ Patel (2020). Effect of seed priming and foliar spray of bioregulators on biochemical properties of chickpea (<i>Cicer arietinum</i> L.) under conserved moisture condition of Bhal region of Gujarat. <i>International Journal of Chemical Studies</i> , 8 (6), 1678-1682.
23	Ram Niwas Choudhary, Kinjal J Suthar and NJ Patel (2020). Effect of Seed Priming and Foliar Spray of Bio-regulators on Yield and Yield Attributes of Chickpea (<i>Cicer arietinum</i> L.) under Conserved Moisture Condition. <i>International Journal of Current Microbiology and Applied Science</i> , 9 (11), 2051-2057.
24	Patel, K.H., Parmar, P.K., Patel, M.B., Varma, H.S., Singh, S. K., Mehta, P. V., Patel, N. J. , & Patel, V. J. (2021). Production of Baby corn hybrid as influenced by nitrogen and phosphorus in rabi season. <i>The Pharma Innovation Journal</i> , 10 (12), 712-715.
25	Patel, K. H., Parmar, P. K., Patel, M. B., Varma, H. S., Mehta, P. V., & Patel, N. J. (2023). Production of baby corn hybrid as influenced by nitrogen and phosphorus in kharif season. <i>The Pharma Innovation Journal</i> , 12(8): 2153-2156.
26	Sneha D. Patel., Nilesh J. Patel. , Amar A. Sakure., Sushil Kumar., J. J. Dhruv., (2023). Detection of the potential of seed kernel for food industries through biochemical evaluation of diverse mango cultivars. <i>Obstbau</i> 65:2427–2436.
27	J D Dobaria, J J Dhruv, S R Parmar and N J Patel (2023). Effect of exogenous silicic acid on germination and seedling establishment in brinjal. <i>Indian J Agric Biochem</i> 36 (2): 177-182, 2023.