

## Publications

### Number of Res. Papers/Books/Popular articles published by faculties of the department (Since 2004)

Research paper published in International Journals	:	47
Research paper published in National Journals	:	71
Popular articles published	:	43
Books / Book chapters	:	09
Practical Manuals	:	04
Total	:	174

#### 2010-11

1. Rajiv Kumar, Bhatt, M. M. and Sasidharan, N. (2009). Induced mutagenesis in cluster bean (*Cymopsis tetragondoba* L.) *GAU Res. J.* 34(2):78-82.
2. Bhavani, A. P., Sasidharan, N., Shukla, Y. M. and Bhatt, M. M. (2009). Role of genetic variability in chickpea (*Cicer arietinum* L.). *Int. Journal of Agri. Sci.* 5(1):205-206.
3. Sasidharan, N., Vala, A., Patel, H. B. and Macwana, S. S. (2010). Characterization of seed protein through SDS- PAGE in chickpea (*Cicer arietinum* L.). *Int. J. of Biosci. Reporter.* 8(1): 77-79

#### 2011-12

1. Chakraborty Sudeshna, Thakare Indrapratap, Rallapalli Ravikiran, Nikam Vivek, Trivedi Ruchi, Sasidharan, N. and Jadeja, G. C. (2011). Assessment of diversity using RAPD and ISSR markers in Sorghum varieties across Gujarat, India. *Electronic J. of Plant Breeding*, 2(4):488-493.
2. Chamling Nation, Jadeja, G. C. and Patel, S. T. (2011). Seed mycofloras of Tomato (*Lycopersicon esculentum* L.) cultivars collected from different locations of Gujarat. *J. of Plant Disease Sciences*, 6(2): 145-149.
3. Desai, N. H., Jadav, N. J. and Patel, C. L. (2011). Effect of industrial sludges and soil conditioners on physical properties of loamy sand soil. *An Asian J. of Soil Science*, 6(1): 54 – 60.
4. Kalyani Kumari, Jadeja, G. C. and Patel, S. T. (2012). Seed mycofloras of Chilli (*Capsicum annum* L.) cultivars collected from different locations of Gujarat. *J. of Plant Disease Sciences* 7(2): 55-59.
5. Khistaria, J. M., Fougat, R. S., Sasidharan, N. and Patel, J. N. (2011). Effect of alien cytoplasm on expression of heterosis in *bidi* Tobacco, *Nicotiana tabacum* L. *Gujarat Agricultural University Research Journal*, 36(1): 5-8.
6. Patel, A. D., Kher, H. R., Makwana, M. G. and Patel, J. N. (2011). Genetic variability, correlation and path analysis in *bidi*-tobacco (*Nicotiana tabacum* L.). *Gujarat Agricultural University Research Journal*, 36(1): 1-4.
7. Patel Avani, Sasidharan N, Vala Asish G and Vinay Kumar (2011). Genetic relation in *Capsicum annum* L. cultivars through microsatellite markers SSR and ISSR. *Electronic J. of Plant Breeding*, 2(1):67-76.

8. Patel Avani, Sasidharan, N., Vala Ashish G., Patel, J. N. and Jadeja, G. C. (2011). Discrimination of genetic variability among Indian Chilli (*Capsicum annuum* L) cultivars through randomly amplified polymorphic DNA. *Research on Crops*, 12 (3): 800-806.
9. Patel Avni S, Sashidharan N, Vala Ashish and Macwana Sneha (2011). Identification and tagging of fertility restorer (Rf) genes in chilli (*Capsicum annum* L.) cultivars. *International J. of Plant Sciences*, 6(1): 122-125.
10. Patel HB, Bhatt MM, Sasidharan N, Vala Ashish G and Makwana Sneha (2012). Study of heterosis effects for green fruit yield and its attributes in Chili (*C. annum* L.). *Advances in Plant Science*, 25 (2)
11. Patel, J. M., Patel, M. V., Jadav, N. J. and Pavaya, R. P. (2011). Distribution of different forms of sulphur in soil of Banaskantha district of Gujarat. *An Asian J. of Soil Science* 6 (1): 11 – 16.
12. Patel, K. K., Patel, B. A., Jadav, N. J., Patel, J. C. and Panchal, D. B. (2011). Influence of integrated nutrient management on curd yield, quality and nutrient uptake and economics of cauliflower (*Brassica Oleracea*, Var Botrytis, L.) under middle Gujarat. *Advance Research J. of Crop Improvement*, 2 (2) : 193-196.
13. Sakure Amar A, Dhaduk, H. L., Mehta, D. R. and Madaria, R. B. (2012). Distribution of castor (*Ricinus communis* L.) genotypes through SSR markers. *Asian J. of Biosciences*, 7 (1): 71-76.
14. Sashidharan N, Vala Ashish, Patel, H. B. and Macwana Sneha (2010). Characterization of seed protein through SDS-PAGE in Chickpea (*Cicer arietinum* L.). *Bioscience Reporter*, 8 (1): 77-79.
15. Shah Grishma, Sashidharan N, Sudeshna Chakraborty, Ruchi Trivedi, Rallapalli Ravikiran and Deepti Davla (2011). Genetic diversity and molecular analysis for fertility restorer genes in Rice (*Oryza sativa* L.) for wild abortive (WA) cytoplasm using microsatellite markers. *J. of Agricultural Technology*, 8(1): 261-271.
16. Shinde, D. V., Bhatt, M. M., Sasidharan, N., Vala, A. G. and Makwana Sneha (2012). Line x Tester analysis for yield and its contributing traits in asiatic cotton (*G. herbaceum* L). *Plant Sci.:* 25 (2) 459-461.

### 2012-13

1. Suresh Handi, Sasidharan N, Sudeshna Chakraborty, Sneha Macwana, Ruchi Trivedi, Bhupendra Singh Puwar and Ashish G. Vala. (2013). Genetic diversity among Maize varieties revealed by phenotypic descriptors and RAPD profiles. *Journal of Agricultural Sciences*
2. Zainab Vhora, Ruchi Trivedi, Sudeshna Chakraborty, Rallapalli Ravikairan and Sashidharan N. (2013). Aromatic rice (*Oryza sativa* L.) genotypes for quality traits using microsatellite markers. *The Bioscan*
3. Deepti Davla, Sashidharan N, Sneha Macwana, Sudeshna Chakraborty, Ruchi Trivedi, Rallapalli Ravikairan and Grishma Shah (2013). Molecular characterization of rice (*Oryza sativa* L.) genotypes for salt tolerance using microsatellite markers. *The Bioscan*
4. Sudeshna Chakraborty, Bhushan Aher, Sashidharan N., Ruchi Trivedi, Rallapalli Ravikiran and Avadh Shah. (2013). Assessment of genetic purity and phylogeny in Pigeon Pea (*Cajanus cajan*) genotypes by RAPD and SSR markers. *International Journal of Agriculture, Environment and Biotechnology*

5. Amar A. Sakure, H. L. Dhaduk, D. R. Mehta, and R. B. Madaria (2012). Discrimination of castor (*Ricinus communis* L.) genotypes through SSR makers, *Asian J. Bio Sci.*, 7(1): 71-75
6. Amar A. Sakure, H. L. Dhaduk, D. R. Mehta, M. K. Mandavia and R. H. Kavani, Genetic diversity analysis among castor (*Ricinus communis* L.) genotypes using isoenzyme markers, *J. Oilseeds Res.* 29 (2): 142-146, December, 2012
7. Suresh Handi, Sasidharan N., Sudeshna Chakraborty, Patel J.N., Ruchi Trivedi, Bhupendra Singh Punwar and Ashish Vala. (2012). Genetic analysis and character association studies for yield and different phenotypic characters in Maize (*Zea mays* L.). *International Journal of Plant Sciences*, 7(2): 341-350.
8. J. N. Patel, Sasidharan N, Sudeshna Chakraborty, Bhushan Aher, Kalyani Kumari, Indrapratap Thakre and Gayatri Limbachiya. (2012). Effect of different storage materials and storage periods on the germination of Onion seeds (*Allium cepa* L.). *Research Journal of Agricultural Sciences*, 3(6): 1180-1182
9. J. N. Patel, A.D. Patel, Sudeshna Chakraborty and Sasidharan N. (2012). Generation mean analysis for yield, yield contributing characters and oil yield in tobacco. *Advances in Bioresearch*, 3(2): 79-85.
10. J. N. Patel, A.D. Patel, Sudeshna Chakraborty and Sasidharan N. (2012). Heterosis and relative heterosis in Tobacco (*Nicotiana tabacum* L.). *International Journal of Plant, Animal and Environmental Sciences*, 2 (2): 270-275.

#### 2013-14

1. Kalyani Kumari, Kalyanrao P. and Shikha Sharma (2013) Farmer friendly ways to control termites. *Popular Kheti.* 1(2). 25-29.
2. Kalyani Kumari, Kalyanrao P. and Shikha Sharma (2013) Organic seed production. *Popular Kheti.* 1(4). 184-91.
3. Kalyanrao, Tomar, B. S., Balaraj Singh and Aher, B. M. (2013) Seed production of Bottle gourd is remunerative. *Indian Horticulture.* 58 (4). 26 – 29
4. Kalyanrao, B. S. Tomar and Balraj Singh (2013). Comparative study of trailing and traditional method on seed yield and quality of bottle gourd hybrid seed production cv. Pusa Hybrid-3. *Seed Research*
5. Kalyanrao, B. S. Tomar and Balraj Singh (2014) Effect of stage of harvest and post-harvest ripening on seed yield and quality in bottle gourd cv. Pusa Hybrid-3. *Indian Journal of Horticulture.*
6. Kalyani Kumari, Kalyanrao P. and Shikha Sharma (2013) Organic seed production. *Popular Kheti.* 1(4). 184-91.
7. Kalyanrao, Tomar, B. S., Balaraj Singh and Aher, B. M. (2013) Seed production of bottle gourd is remunerative. *Indian Horticulture*, 58(4): 26 – 29
8. Suresh Handi, Sasidharan N., Sudeshna Chakraborty, Sneha Macwana, Ruchi Trivedi, Bhupendra Singh Puwar and Ashish G. Vala. (2013). Genetic diversity among maize varieties revealed by phenotypic descriptors and RAPD profiles. *The Journal of Agricultural Sciences*, 8 (2): 91-106.

9. Zainab Vhora, Ruchi Trivedi, Sudeshna Chakraborty, Rallapalli Ravikairan and Sashidharan N. (2013). Aromatic rice (*Oryza sativa* L.) genotypes for quality traits using microsatellite markers. *The Bioscan*, 8 (2), 359-362.
10. Deepti Davla, Sashidharan, N, Sneha Macwana, Sudeshna Chakraborty, Ruchi Trivedi, Rallapalli Ravikairan and Grishma Shah. (2013). Molecular characterization of rice (*Oryza sativa* L.) genotypes for salt tolerance using microsatellite markers, *The Bioscan*, 8 (2), 499-502.
11. Siddhi Patel, Rallapalli Ravikiran, Sudeshna Chakraborty, Sneha Macwana, Sasidharan N, Ruchi Trivedi and Bhushan Aher. (2014). Genetic diversity of colored and white rice genotypes using microsatellite (SSR) and insertion deletion (INDEL) markers. *Emirate Journal of Food and Agriculture*.
12. Sudeshna Chakraborty, Bhushan Aher, Sashidharan N., Ruchi Trivedi, Rallapalli Ravikiran and Avadh Shah. 2013. Assessment of genetic purity and phylogeny in Pigeon Pea (*Cajanus cajan*) genotypes by RAPD and SSR markers. *International Journal of Agriculture, Environment and Biotechnology*, 6(1): 55-60.
13. Kinjal Suthar, J. N. Patel, V. K. Patel, V. K. Dholu and N. Sasidharan. (2013). Combining ability analysis for yield and its components in rapeseed (*Brassica rapa* L.). *International Journal of Agricultural Sciences*. 8(2): 343-349.
14. Mishra Kundan k., Faugat, R.S., Ballani, A. and Sasidharan N. (2013). Molecular characterization of Asiatic cotton *G. herbaceum* and *G. arboreum* genotype using SSR markers linked for fiber quality traits. *Int. J. of Biotechnology and allied fields*, 1(15): 319-332.
15. N.Sasidharan., G. C. Jadeja and M. M. Bhatt (2013). Combining ability studies in castor (*Ricinus communis*) under irrigated and unirrigated environments. *J. oilseeds Res.* 30(1): 77-80.
16. Vinod K. Dholu, N. Sasidharan and P. J. Katba. (2013). Diallel analysis (graphical approach) for yield and yield parameters in Indian mustard (*Brassica juncea* L.). *Bioinfolet*, 2013.
17. Amar A. Sakure, H.L. Dhaduk, D.K. Mehta, M.K. Mandavia and R.H. Kavani. (2012). Genetic diversity analysis among castor (*Ricinus communis* L.) genotypes using isoenzyme markers. *J. Oilseeds Res.* 29 (2): 142-146.

#### 2014-15

1. Pathak, A. R., Patel, A. I., Joshi, H. K. and Patel, D. A. (2014). Genetic variability, correlation and path coefficient analysis in Fenugreek (*Trigonella foenum-graecum* L.). *Trends in Bioscience*, 7(4): 234-237.
2. Aher, B. M., Amruta Desai, Pithia, M. S. and Kalyanrao (2014). Genetic variability of yield and its contributing characters in kabuli chickpea (*Cicer arietinum* L.). *Trends in Biosciences*, 7(23): 4025-4032.
3. Patel Dipali A, Patel D. A., Chakraborty Sudeshna, Parmar Dharna J. and Jadav N. J. (2014). Molecular characterization of rice (*Oryza sativa* L.) genotypes resistant to moisture stress. *The Bioscan*, 9(2): 899-905.
4. Kalyanrao, Tomar, B. S. and Balraj Singh (2014). Effect of stage of harvest and post-harvest ripening on hybrid seed yield and quality in bottle gourd. *Indian J. Hort.*, 71(3): 428-432.
5. Nakar, R. N., Jadeja, B. A. and Dhaduk, H. L. (2014). Phenological studies of two Bombacaceae members from girnar reserve forest, Junagadh, Gujarat, India. *The Indian Forester*, 140(1): 59-

6. Patel, P. D., Chaudhari, K. N., Patel, D. A., Soni, N. V. and Pandya, M. M. (2014). Genetic studies for yield and its component traits in Castor (*Ricinus communis* L.). *Trends in Bioscience*, 24 (7): 234-237.
7. Prajapat Pravin, N. Sasidharan and Mukesh Kumar (2014). Molecular characterization and genetic diversity analysis in four brassica species using microsatellite. *Bioscan*, 8 (4), 2014.
8. Patel Siddhi, Rallapalli Ravikiran, Chakraborty Sudeshna, Macwana Sneha, N. Sasidharan, Trivedi Ruchi and Aher Bhushan (2014). Genetic diversity analysis of colored and white rice genotypes using Microsatellite (SSR) and Insertion-Deletion (INDEL) markers. *Emir. J. Food Agric.* 26 (6): 497-507
9. Prajapati Vijay, Soni Nishit and N. Sasidharan (2014). Molecular studies of pigeonpea (*Cajanus cajan* (L.) Mill sp.) genotypes for fusarium wilt using RAPD markers. *IJAEB*. 7:459-465
10. Kalyanrao, Tomar, B. S., Balraj Singh and Aher, B. M. (2015). Effect of pollination time on fruit set, seed yield and seed quality of bottle gourd cv. Pusa hybrid-3. *Bioinfolet*. 12(1A): 90-94.
11. Kalyanrao, Tomar BS, Balraj Singh and Aher BM (2015). Morphological characterization of parental lines and cultivated genotypes of bottle gourd. *Indian Journal of Agriculture Sciences*
12. Dholu, V. K., N. Sasidharan and Katba, P. J. (2013). Diallel analysis (graphical approach) for yield and yield parameters in Indian mustard (*Brassica juncea* L.). *Bioscience Guardian*, 4 (1)

### 2015-16

1. Dharna, J. Parmar, D. A. Patel, Sudeshna Chakraborty, Ruchi Trivedi, Sasidharan, N. and Dipali A. Patel (2015). Study of genetic diversity in fertility restoring genotypes for WA cytoplasm in rice (*Oryza sativa* L.) through RAPD and SSR markers. *International Journal of Tropical Agriculture*, 33(1) 67-74.
2. Sudeshna Chakraborty, Sasidharan, N., Ruchi Trivedi, Bhushan Aher and D. A. Patel (2016). Assessment of genetic diversity of *Pennisetum glaucum* (L.) R.Br. and *Triticum aestivum* L. genotypes through RAPD and SSR markers. *International Journal of Agriculture Sciences*, 8(1): 946-950.
3. Suman Parajuli, D. A. Patel and D. R. Delvadia (2015). Genetic variability, correlation and Path analysis for cured leaf yield and its components in rustica tobacco (*Nicotiana rustica* L.). *International Journal of Tropical Agriculture*, 33(3): 2087-2092.
4. Suman Parajuli, D. A. Patel, M. G. Mackwana and D. J. Parmar (2015). Genetic diversity for cured leaf yield and its components in rustica tobacco (*Nicotiana rustica* L.). *Trends in Biosciences*, 8(7): 1753-1757.
5. Patel V. M., R. B. Ardesna, R. S. Bhakta, D. A. Patel and D. A. Chauhan (2015). Evaluation of benefits of scientific package of practices of castor under front line demonstration. *Trends in Biosciences*, 8(19): 5272-5274.

### 2016-17

1. Prajapathi, V., Sasidharan N., Soni, N., Patel, A. and Prajapath, P. (2016). Genetic analysis of pigeonpea (*Cajanus cajan* L. Millso) genotypes for fusarium wilt using microsatellite markers. *Journal of Pure and Applied Microbiology*, 10 (2): 1559-1563.

2. Chakraborty Sudeshna, Sasidharan, N. Trivedi, R., Aher, B. and Patel, D. A. (2016). Assessment of genetic diversity of *Pennisetum glaucum* (L.) R. Br. and *Triticum aestivum* L. genotype through RAPD & SSR markers. *International Journal of Agricultural Science*, 8 (1): 946-950.
3. Boghra Mayank C., Dhaduk Haresh L., Sushilkumar, Parekh Mithil J., Patel Nilesh J., Sharma Ramavtar (2016). Genetic divergence, path analysis and molecular diversity analysis in cluster bean (*Cyamopsis tetragonaloba* L. Taub.). *Industrial Crops and Products*, 89: 468 – 477.
4. Hirdayesh Anuragi, Haresh L. Dhaduk, Sushil Kumar, Jitendra J. Dhruve, Mithil J. Parekh, Amar A. Sakure (2016). Molecular diversity of *Annona* species and proximate fruit composition of selected genotypes, *3 Biotech*, 6: 204
5. Raiyani A. M., Patel D. A., Kapadia V. N., Boghara M. C., and Sisara H. C. (2015). Combining ability and gene action for different characters in bread wheat (*Triticum aestivum* L.). *The Bioscan*, 10(4): 2159 - 2162.
6. Raiyani A. M., Kapadia V. N., Boghara M. C., Bhalala K. C. and Patel D. A. (2016). Estimation of heterosis in different crosses of bread wheat (*Triticum aestivum* L.). *The Bioscan*, 11(2): 1117 - 1121.
7. Jadeja, J. M., Patel D. A., Parmar H. K. and Sisara, H. C. (2016). Assessment of genetic variability, correlation and path analysis for yield and its components in soybean. *The Bioscan*, 11(2): 965 - 970.
8. Chaudhari H. K., Patel B. R., Ramesh and Parmar H. K. (2016). Combining ability analysis for cured leaf yield and its components traits in bidi tobacco (*Nicotiana tabacum* L.). *International Journal of Science, Environment and Technology*, 5(3): 1373 – 1380.
9. Damor A. S., Patel J. N., Parmar H. K. and Vyas N. D. (2016). Studies on genetic variability, Heritability and genetic advance for yield and quality traits in bottle gourd (*Lagenaria siceraria* Moll Standl.) genotypes. *International Journal of Science, Environment and Technology*, 5(4): 2301 - 2307.
10. Akbari V. R. and Sasidharan N. (2016). Evaluation of heterotic potential for seed yield and its attributing traits in Indian mustard (*Brassica juncea* L.). *Journal of Oilseed Brassica*, 7(2): 180 - 185.
11. Thumar Sadhana T., Gajara H. P., Dhaduk H. L. and Sakure A. A. (2016). Physiological, qualitative and molecular markers based evaluation of mango cultivars, *Indian J Agric Biochem.*, 29 (1): 80 - 86.
12. Agrawal M. M., Macwana Sneha, Sangram Singh, Wawage, M. N. and Sasidharan N. (2016). Evaluation of genetic diversity in sesame genotypes using genic-SSR markers. *Journal of Advances in Life Science*, 5 (16): 6042 – 6046.
13. Patel M. C., Patel D. A., Patel K. V., Soni N. V., Satodiya B. N. and Jadav R. G. (2016). Genetic variability and correlation studies for fruit yield and quality parameters in mango (*Mangifera indica* L.) *Green Farming*, 7 (3): 706 – 709.

## 2017-18

1. P N Kore, M J Patel, Mayur Shitap, R P Vasara, D A Patel, H J Christian and Lokesh Yadav (2017). Evaluation of different papaya genotypes for quality and biochemical changes under middle gujarat conditions. *International Journal of Chemical Studies*, 5(5): 1221 – 1223.

2. Urmila Maibam, Sneha Macwana and Niva Doloi (2017). Induced mutagenesis in sesame (*Sesamum indicum* L.) *Journal of Pharmacognosy and Phytochemistry*, 7(1)-112.
3. Vrushank Trivedi, Kalyanrao, N. Sasidharan and D A Patel (2018). Influence on seed quality parameters under different temperature and artificial ageing treatment in Cumin (*Cuminum cyminum*). *Indian Journal of Agricultural Sciences*, 88(1): 121-124.
4. Sudeshna Chakraborty, Aher B M, Kalyanrao, Anil Rawat and N. Sasidharan (2017). Effect of potassium nitrate on seed quality enhancement in different aged seeds of Bottle gourd [*Ligenaria siceraria*,(Molina) Stand]. *Journal of Experimental Biology and Agricultural Sciences*, 5(5): 656-661.
5. V R Akabari, N. Sasidharan and Vipul Kapadiya (2017). Combining ability and gene action study for grain yield and its attributing traits in Indian mustard. *Electronic Journal of Plant Breeding*, 8(1): 226-235.
6. V R Akabari, N. Sasidharan and V N Kapadia (2017). Inbreeding depression heritability and genetic advance for yield and yield components in Indian mustard. *Journal of Pharmacognosy and Phytochemistry*, 6(3): 755-760.
7. Das A, Pandey S K, Bhattacharya P and Dasgupta T. (2018). Characterization of some Indian Sesame (*Sesamum indicum* L.) cultivars through soluble seed storage protein markers. *Journal of Experimentation Biology and Agricultural Science*, 6(1): 243-248

#### 2018-19

1. Lalji N. Gediya, Dipak A. Patel, Dinesh J. Parmar, Runit Patel and Parth Rahevar (2018). Assessment of genetic diversity of chickpea genotypes using D<sup>2</sup> statistics. *International Journal of Chemical Studies*, 6(4):3177-3181.
2. J. J. Patel, D. A. Patel, H. K. Parmar, A. S. Damor and D. K. Patel (2018). Diallel analysis for combining ability studies in castor (*Ricinus communis* L.). *International Journal of Chemical Studies*, 6(3):2950-2956.
3. Lalji N. Gediya, Dipak A. Patel, Deep Kumar, K. J. Vekariya and J. J. Nayak (2018). Characterization of chickpea genotypes based on morphological traits. *Journal of Pharmacognosy*, 7(4): 3008-3015.
4. Baldaniya Natubhai, Kalyanrao, A. P. Karjule and D. A. Patel (2018). Effect of containers and Duration on seed quality of onion under ambient storage conditions. *Journal of Seed Research*, 46 (2): 164-167.
5. J. J. Patel, D. A. Patel, K. J. Vekariya, D. J. Parmar and J. J. Nayak (2018). Heterosis for seed yield and its contributing characters in castor [*Ricinus communis* L.] *Journal of Pharmaco. Phytochem*, 7(4):1372-1377.

#### 2019-20

1. Trivedi V., Patil Kalyanrao., Sasidharan N. and Patel D. A. (2019). Effect of pre-sowing seed treatment on seed emergence and yield parameters in cumin (*Cuminum cyminum* L.). *International J. Seed Spices*, 9(2):73-76.
2. Karjule Avinash., Patil Kalyanrao, N. Sasidharan and Patel D. A. (2019). Effect of different seed priming treatments on yield attributes of wheat (*Triticum aestivum*). *Indian Journal of Agricultural Sciences*, 89 (10): 1649-53.

3. Patil Kalyanrao, Karjule Avinash, Patel D. A. and Sasidharan N. (2019). Effect of accelerated ageing on viability and longevity of wheat (*Triticum aestivum*) seed. *Indian Journal of Agricultural Sciences*, 89 (6): 920–8.
4. Karjule Avinash, Patil Kalyanrao, Patel D. A. and Darji V. B. (2019). Effect of Polymer Coating with Pesticides and storage containers on longevity of wheat seeds. *Seed Research*, 47(1): 35-43.

### 2020-21

1. Das A., Adhikari A. and Dudhat B. L. (2020). Adoption of new sesame variety in small scale farming in West Bengal: barriers and strategies. *International Journal of Agriculture Sciences*, 12:9923-9926.
2. Sapra N. C., Kalyanrao P., Sasidharan N., Das A. and Susmitha P. (2020). Effect of mechanical, chemical, growth hormone and biofertilizer treatments on seed quality enhancement in ashwagandha (*Withania somnifera* Dunal). *Medicinal & Aromatic Plants*, Doi: 10.35248/2167-0412.20.9.350.
3. Thounaojam A. S., Sakure A. A., Dhaduk H. L., S. Kumar and Mistry J. G. (2020). Impact evaluation of growth stage and species on morpho-physiological traits and bioactive constituent of essential oil in *Ocimum* through multi-year experiment, *Industrial Crops and Products*, 158: 113052 [doi: 10.1016/j.indcrop.2020.113052].

### 2021-22

1. Patel R, Patel D A, Das A, Borkhatiya T. 2022: Estimation of association among yield and yield attributing traits of maize (*Zea mays* L.). *International Journal of Current Microbiology & Applied Sciences*. 11 (01)
2. R Patel, A Parihar, MA Makwana, K Kulshreshtha (2021) Validation of known ToLCV markers associated with ToLCV resistance in tomato through bulked segregant analysis, *Indian Journal of Genetics and Plant Breeding*, 81 (03), 1-3
3. B Maru, A Parihar, K Kulshreshtha, M Vaja (2021). Induction of polyploidy through colchicine in cotton (*Gossypium herbaceum*) and its conformity by cytology and flow cytometry analyses, *Journal of Genetics*, 100 (2), 1-10

### 2022-23

1. Patel N. B., Acharya R. R., Acharya V. R., Parihar A., Macwana S. M., Parmar D. J. (2022). Stability analysis over different environments for seed yield and its contributing traits in sesame (*Sesamum indicum* L.). *The Pharma Innovation Journal*. 11 (11): 46-58.
2. Patel N. B., Acharya R. R., Macwana S. M., Halladakeri P., Parihar A. (2022). Genetic variability, correlation and path analysis for seed yield and yield contributing traits in sesame (*Sesamum indicum* L.) germplasm. *The Pharma Innovation Journal*, 12(11): 21-32.
3. Patel R., Memon J., Patel D. A., Patel K. V. and Das A. (2023). Assessment of genetic diversity analysis in maize (*Zea mays* L.) for yield and yield attributing traits in Middle Gujarat condition. *The Pharma Innovation International Journal*. 12(3): 2405-2408.



4. Patel R., Patel D. A., Das A. and Borkhatariya T. (2022). Estimation of Association among Yield and Yield Attributing Traits of Maize (*Zea mays* L.). *International Journal of Current Microbiology and Applied Sciences*. 11(1): 368-374.
5. Patel R., Patel D. A., Memon J., Das A. and Patil K. (2023). D<sup>2</sup> clustering of yield and yield accredited attributes for genetic diversity analysis in maize (*Zea mays* L.). *The Pharma Innovation International Journal*. 12(3): 2210-2213.
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