

**M.Sc. Theses Submitted**

| Sr. No.                                          | Thesis Title                                                                                                                                                         | Student's Name                        | Major Guide         |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------|
| <b>Plant Molecular Biology and Biotechnology</b> |                                                                                                                                                                      |                                       |                     |
| <b>Year 2015-16</b>                              |                                                                                                                                                                      |                                       |                     |
| 1.                                               | Molecular perspectives of <i>Trichoderma</i> strains and their antifungal activities during in vitro antagonism with <i>Sclerotium rolfsii</i> (Groundnut)           | Hirpara Darshna G. (J4-01039-2012)    | Dr. H. P. Gajera    |
| 2.                                               | Molecular characterization of ridge gourd ( <i>Luffa acutangula</i> L.) and sponge gourd ( <i>Luffa cylindrica</i> L.) genotypes through PCR based molecular markers | Rathod Ravikumar R. (J4-01073-2012)   | Dr. D. R. Mehta     |
| 3.                                               | Molecular and Biochemical evaluation for drought tolerance in bread wheat ( <i>Triticum aestivum</i> L.)                                                             | Gajera Hitesh P. (J4-01036-2012)      | Dr. S. V. Patel     |
| 4.                                               | Characterization of pyricularia leaf spot resistant and susceptible pearl millet genotypes using biochemical and molecular markers                                   | Vaja Vidushibahen N. (J4-01088-2012)  | Dr. H. P. Gajera    |
| 5.                                               | Molecular and biochemical characterization of leaf rust resistant and susceptible wheat ( <i>Triticum aestivum</i> L.) genotypes                                     | Bhimani Rahul D. (J4-01023-2012)      | Dr. K. H. Dabhi     |
| 6.                                               | Characterization of <i>phytophthora</i> blight resistant and susceptible sesame ( <i>Sesamum indicum</i> L.) genotypes using molecular markers                       | Karad Kirtikumar D. (J4-01048-2012)   | Dr. S. V. Patel     |
| 7.                                               | Characterization of drought resistance and susceptible pearl millet ( <i>Pennisetum glaucum</i> L.) genotypes using biochemical and molecular markers.               | Parmar Suhani B. (J4-01063-2012)      | Dr. M. K. Mandavia  |
| <b>Year 2016-17</b>                              |                                                                                                                                                                      |                                       |                     |
| 8.                                               | Genetic diversity analysis of Ber ( <i>Ziziphus mauritiana</i> L.) varieties through PCR based molecular markers                                                     | Dobariya Ashok B. (J4-01140-2013)     | Dr. G. V. Marviya   |
| 9.                                               | Diversity analysis of fenugreek ( <i>Trigonella foenum-graceum</i> L.) through molecular and biochemical markers                                                     | Korat Avni N. (J4-01162-2013)         | Dr. U. K. Kandoliya |
| 10.                                              | Genetic diversity analysis among coconut ( <i>Cocos nucifera</i> L.) Genotypes and hybrids by biochemical and molecular marker                                       | Joshi Ankitaben K. (J4-01153-2013)    | Dr. U. K. Kandoliya |
| 11.                                              | Molecular and biochemical characterization of chrysanthemum ( <i>Dendranthema grandiflora</i> Tzevlev)                                                               | Awinash Gowda H. (J4-01335-2014)      | Dr. K. H. Dabhi     |
| <b>Year 2017-18</b>                              |                                                                                                                                                                      |                                       |                     |
| 12.                                              | Molecular and phytochemical characterization of algal species from coastal belt of Okha region                                                                       | Chudasama Amar A. (J4-01355-2014)     | Dr. U. K. Kandoliya |
| 13.                                              | Molecular characterization for drought tolerance in cotton                                                                                                           | Bhadani Rushitaben V. (J4-01342-2014) | Dr. S. V. Patel     |
| 14.                                              | Molecular characterization of tomato ( <i>Solanum esculentum</i> ) genotypes for leaf curl viruses (ToLev)                                                           | Jayashree M. J. (2010115037)          | Dr. U. K. Kandoliya |

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| 15.                 | Expression analysis of polyamines and ethylene biosynthesis genes in groundnut ( <i>Arachis hypogaea</i> L.) during stem rot disease              | Rakesh Nogiya<br>(J4-01404-2014)                  | Dr. M. K. Mahatma  |
| 16.                 | Genome sequencing of Dill ( <i>Anethum graveolens</i> L.) for development and validation of simple sequence repeat markers                        | Shiwani<br>(2010115084)                           | Dr. M. K. Mandavia |
| 17.                 | Molecular characterization of groundnut varieties differing in tolerance to aflatoxin production                                                  | Rahul Rammani Tripathi<br>(J4-01400-2014)         | Dr. H. P. Gajera   |
| 18.                 | Molecular screening and characterization of castor genotypes for root rot disease                                                                 | Kachhadiya Harshita J.<br>(J4-01371-2014)         | Dr. R. B. Madariya |
| 19.                 | Identification and validation of microsatellite markers through assembly of a partial genome for fennel ( <i>Foeniculum vulgare</i> M.)           | Pala Abhay B.<br>(J4-01390-2014)                  | Dr. R. S. Tomar    |
| 20.                 | Molecular characterization of pearl millet ( <i>Pennisetum glaucum</i> (L.) R. Br.) genotypes for salinity tolerance                              | Ravindrakumar Vijaykumar Baria<br>(J4-01410-2014) | Dr. G. V. Maraviya |
| 21.                 | Evaluation of biochemical and molecular markers associated with salt tolerance in wheat genotypes                                                 | Pansuria Kruti C.<br>(J4-01392-2014)              | Dr. S. V. Patel    |
| 22.                 | De nova sequencing of ancient seed spice celery ( <i>Apium graveolens</i> L.) and development of microsatellites                                  | Shafalee Kishorbhai Parmar<br>(J4-01416-2014)     | Dr. M. K. Mandavia |
| 23.                 | Molecular screening and characterization of castor genotypes for <i>fusarium</i> wilt resistance                                                  | Makwana Monika S.<br>(2010115049)                 | Dr. R. B. Madariya |
| 24.                 | Morphological, biochemical and molecular characterization of brinjal ( <i>Solanum melongena</i> L.) genotypes through PCR based molecular markers | Rucha Rajendrakumar Patel<br>(J4-001184-2013)     | Dr. D. R. Mehta    |
| 25.                 | Diversity analysis and sex determination in spine gourd ( <i>Momordica dioica</i> Roxb.) using biochemical and molecular markers                  | Hirani Nimishaben V.<br>(2010115028)              | Dr. D. R. Mehta    |
| 26.                 | Development of genome wide simple sequence repeat markers using genome sequence of ajwain ( <i>Trachyspermum ammi</i> L.)                         | Jogarana Mayur R.<br>(J4-01370-2014)              | Dr. R. S. Tomar    |
| <b>Year 2018-19</b> |                                                                                                                                                   |                                                   |                    |
| 27.                 | Differential gene expression of GNAC TFs for drought stress in groundnut                                                                          | Thoppurathu Feba Jacob<br>(2010116121)            | Dr. A. G. Vala     |
| 28.                 | Transcriptome profiling associated temperature and their gene expression in chickpea                                                              | Pandya Pryankaben M.<br>(2010116085)              | Dr. M. K. Mahatma  |
| 29.                 | Molecular characterization of garlic ( <i>Allium sativum</i> L.) genotypes differs in total soluble content                                       | Umaretiya Vidishaben R.<br>(2010115088)           | Dr. G. V. Maraviya |
| 30.                 | Efficacy of thiourea application on biochemical changes in chickpea ( <i>Cicer arietinum</i> L.) under water deficit stress                       | Makadiya Mahek B.<br>(2010115048)                 | Dr. M. K. Mandavia |
| 31.                 | Molecular characterization of blackgram( <i>Vigna</i>                                                                                             | Mukul Kumar                                       | Dr. G. V.          |

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|                     | <i>mungo</i> (L.) Hepper) genotypes for saline water tolerance.                                                                                             | Gandhi (2010116080)                   | Maraviya           |
| 32.                 | Molecular and biochemical characterization of wheat genotypes under heat stress condition                                                                   | Kapadiya Kishan B. (2010116064)       | Dr. K. H. Dabhi    |
| 33.                 | Differential gene expression of aquaporin for salinity stress in groundnut                                                                                  | Joshi Meeraben K. (2010116055)        | Dr. G. V. Maraviya |
| 34.                 | Molecular and isoenzymic characterization of indian bean ( <i>Lablab purpureus</i> L.) genotypes                                                            | Dholakia Hemang P. (2010116034)       | Dr. D. R. Mehta    |
| 35.                 | Phylogenetic relationship and molecular diversity analysis of promising genotypes and cultivars of mustard ( <i>Brassica juncea</i> L.)                     | Moghariya Nikulkumar K. (2010115052)  | Dr. H. P. Gajera   |
| <b>Year 2019-20</b> |                                                                                                                                                             |                                       |                    |
| 36.                 | Isolation and characterization of entomopathogenic microbes from the soils                                                                                  | Hirapara Kinjalkumari M. (2010117047) | Dr. S.B. Bhatt     |
| 37.                 | "Genome and transcriptome sequencing of barnyard millet ( <i>Echinochloa esculenta</i> L.) for the development of geneic SSR marker and diversity analysis" | Meniya Vipul H. (2010117076)          | Dr. R. S. Tomar    |
| 38.                 | "Genome and transcriptome sequencing of kodomillet ( <i>Paspalum scrobiculatum</i> L.) for the development of geneic marker and diversity analysis"         | Humble Nehali B. (2010117050)         | Dr. R. S. Tomar    |
| 39.                 | Isolation, characterization and identification of halophilic bacteria from the soils of coastal regions of saurashtra                                       | Likhindra Reang (2010117069)          | Dr. S.B. Bhatt     |
| 40.                 | Genome and transcriptome sequencing of little millet ( <i>Panicum sumatense</i> Roth.) for the development of genic SSR markers and its validation          | Bhut Nishant H. (2010117019)          | Dr. K.H.Dabhi      |
| 41.                 | Biochemical and molecular characterization for aroma in rice ( <i>Oryza sativa</i> L.) genotypes of Gujarat region                                          | Patil Rahul Ishwar. (2010117102)      | Dr. A.G.Vala       |
| <b>Year 2020-21</b> |                                                                                                                                                             |                                       |                    |
| 42.                 | Molecular characterization and proximate composition of Maize ( <i>Zea mays</i> L.)                                                                         | Savaliya Nidhiben V. (2010118088)     | Dr. G.V. Marviya   |
| 43.                 | Genetic characterization and diversity of nitrogen fixing <i>Rhizobium</i> Spp. isolated from root nodules of legumes                                       | Muchhadiya Pooja M. (2010118065)      | Dr. S. B. Bhatt    |
| 44.                 | Molecular diversity in onion( <i>Allium cepa</i> L.) genotypes                                                                                              | Sojitra Nidhee P. (2010118093)        | Dr. R. B. Madariya |
| 45.                 | Transcriptome profiling of in vitro regenerated <i>Stevia rebaudiana</i> genotypes and identification of candidate genes encoding steviol glycosides        | Gadhiya Jaykumar A.(2010118026)       | Dr. A. G. Vala     |
| 46.                 | Identification and characterization of candidate genes for drought and salinity tolerance in pearl millet [ <i>Pennisetum glaucum</i> L.]                   | Supreeth H.P. (2010118097)            | Dr. R. S.Tomar     |
| <b>Year 2021-22</b> |                                                                                                                                                             |                                       |                    |
| 47.                 | Assessing genetic diversity of kodo millet ( <i>Paspalum scrobiculatum</i> L.)genotypes using                                                               | Thakkar Tirth K. (2010119102)         | Dr. S. B. Bhatt    |

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|                     | molecular markers                                                                                                                                 |                                            |                        |
| 48.                 | Molecular marker based genetic diversity analysis in barnyard millet ( <i>Echinochloa frumentacea</i> L.)                                         | Jethava Kinjal M. (2010119044)             | Dr. S. B. Bhatt        |
| 49.                 | Molecular diversity in Mustard ( <i>Brassica juncea</i> L.) genotypes                                                                             | Thummar Shweta D. (2010119104)             | Dr. R. B. Madariya     |
| 50.                 | Development and utilization of molecular markers to study genetic diversity in sugarcane ( <i>Saccharum officinarum</i> L.)                       | Jayasuriya U.S. (2010119042)               | Dr. R. S. Tomar        |
| 51.                 | Development and validation of molecular marker for fresh seed dormancy in groundnut ( <i>Arachis hypogaea</i> L.)                                 | Rathava Rajeshvari I. (2010119087)         | Dr. S. Chandramohan    |
| 52.                 | Molecular and biochemical variability in promising genotypes of black sesame ( <i>Sesamum indicum</i> L.)                                         | Moliya Romik M. (2010119070)               | Dr. U.K. Kandoliya     |
| 53.                 | Nutritional, anti-nutritional and molecular characterization of selected genotype of kabuli chickpea ( <i>Cicer arietinum</i> L.)                 | Tajender kumar (2010119099)                | Dr. U.K. Kandoliya     |
| <b>Year 2022-23</b> |                                                                                                                                                   |                                            |                        |
| 54.                 | Metagenomic profiling of soil microbial communities associated with halophytes                                                                    | Kratika Nigam (2010120049)                 | Dr. R. S. Tomar        |
| 55.                 | Development and validation of SSR markers linked to stemrot disease resistance in groundnut                                                       | Gadge Vaishnavi Rajendra (2010120025)      | Dr. Sangh Chandramohan |
| 56.                 | Molecular characterization, nutritional and antinutritional parameters of promising genotypes of black gram [ <i>Vigna mungo</i> (L.) hepper]     | Patel Kalpanababen Khemabhai (2010120068)  | Dr. U.K. Kandoliya     |
| 57.                 | Molecular characterization, nutritional and antinutritional parameters of promising mung bean ( <i>Vigna radiata</i> (L.) Wilczek) genotypes      | Taviyad Krishnaben Laxmanbhai (2010120085) | Dr. U.K. Kandoliya     |
| 58.                 | RNA- SEQ for differentially expressed gene(s) regulating drought and salt stress response in barnyard millet ( <i>Echinochloa frumentacea</i> L.) | Vaghela Tejasvini Indrajit (2010120089)    | Dr. A.G. Vala          |
| 59.                 | Genetic diversity analysis in groundnut ( <i>Arachis hypogaea</i> L.) Based on molecular markers and biochemical parameters                       | Jivani Jankiben Manishbhai (2010120038)    | Dr. G.V. Maravia       |
| <b>Year 2023-24</b> |                                                                                                                                                   |                                            |                        |
| 60.                 | Molecular markers based genetic diversity analysis in finger millet [ <i>Eleusine coracana</i> (L.) Gaertn.]                                      | Dudhatra Rutu Jayesh bhai (2010121018)     | Dr. S. B. Bhatt        |
| 61.                 | Assessment of molecular diversity and proximate composition in millets                                                                            | Chovatiya Neha Dineshbhai (2010121013)     | Dr. M.V. Parakhia      |
| 62.                 | Molecular and biochemical characterization of promising okra ( <i>Abelmoschus esculentus</i> ) genotypes                                          | Aashima Khajuria (2010121070)              | Dr. U.K. Kandoliya     |
| 63.                 | Molecular and metabolomic characterization of coconut ( <i>Cocos nucifera</i> L.) genotypes                                                       | Patel Jahanvi Nandlalbhai (2010122049)     | Dr. U. K. Kandoliya    |

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| 64.                 | Molecular characterization and biochemical analysis of promising indian bean [ <i>Lablab purpureus</i> (L.) Sweet] genotypes                                                       | Gorfad Twinkal Dilipbhai (2010122029)   | Dr. U. K. Kandoliya |
| 65.                 | Physio-biochemical and molecular characterization of Indian mustard ( <i>Brassica juncea</i> (L.) Czern.) under heat stress condition”                                             | Savaliya Foram Arvindbhai (2010122063)  | Dr. A. G. Vala      |
| 66.                 | Identification and characterization of diatoms response to sea water                                                                                                               | Gowruneni Mounika (2010122082)          | Dr. A. G. Vala      |
| 67.                 | Transcriptome profiling of in vitro regenerated <i>Stevia rebaudiana</i> genotypes and identification of candidate genes encoding steviol glycoside                                | Gadhiya Jaykumar A (2010118026)         | Dr. A. G. Vala      |
| 68.                 | Biochemical and molecular characterization for aroma in rice genotypes of Gujarat region                                                                                           | Patil Rahul I (2010117102)              | Dr. A. G. Vala      |
| 69.                 | Rna-Seq For Differentially Expressed Gene(S) Regulating Drought And Salt Stress Response In Barnyard Millet ( <i>Echinochola frumentaces</i> L.)                                   | Vaghela Tejasvini (2010120089)          | Dr. A. G. Vala      |
| 70.                 | Differential gene expression of nac during drought stress in Peanut                                                                                                                | Thoppurathu Feba Jacob (2010116121)     | Dr. A. G. Vala      |
| 71.                 | Transcriptome and biochemical depictions of developing anther influenced by salicylic acid functionalized nanochitosan under heat stress in cotton ( <i>Gossypium hirsutum</i> L.) | Savani Khyati Rasikbhai (1010120023)    | Dr. H. P. Gajera    |
| <b>Year 2024-25</b> |                                                                                                                                                                                    |                                         |                     |
| 72.                 | Evaluation of molecular diversity and antimicrobial potential of endophytic bacteria from leaves of medicinal plants                                                               | Chavda Vaishali Ravjibhai (2010122014)  | Dr. S. B. Bhatt     |
| 73.                 | Isolation and molecular characterization of endophytic microorganisms from <i>Parthenium hysterophorus</i> L. and <i>Portulaca oleracea</i> L. for promoting plant growth          | Bhuva Krishna Pravinbhai (2010122010)   | Dr. M. V. Parakhia  |
| 74.                 | Evaluation of molecular diversity and antimicrobial potential of endophytic bacteria from leaves of medicinal plants.                                                              | Chavda Vaishali Ravjibhai (2010122014)  | Dr. S. B. Bhatt     |
| <b>Year 2025-26</b> |                                                                                                                                                                                    |                                         |                     |
| 75.                 | Molecular Marker Based Genetic Diversity Analysis in Genotypes of Castor ( <i>Ricinus communis</i> L.)                                                                             | Lokesh M (2010123093)                   | Dr. S. B. Bhatt     |
| 76.                 | Biochemical, molecular characterization of drought tolerant gene and assessment of genetic diversity of groundnut ( <i>Arachis hypogaea</i> L.) genotypes                          | Himanshu Goyal (2010123089)             | Dr. M. V. Parakhia  |
| 77.                 | Isolation, molecular diversity and plant growth promotion activities of methylotrophic bacteria from phyllosphere of sesame ( <i>Sesamum indicum</i> L.)                           | Vrutika Patel (2010123073)              | Dr. M. V. Parakhia  |
| 78.                 | Biochemical and molecular response of the heat stress tolerant at seedling stage in winter wheat ( <i>Triticum aestivum</i> L.)                                                    | Chauhan Mital Abhesinhbhai (2010123014) | Dr. A. G. Vala      |
| <b>Biochemistry</b> |                                                                                                                                                                                    |                                         |                     |
| <b>Year 2015-16</b> |                                                                                                                                                                                    |                                         |                     |

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| 1.                  | Biochemical changes in pearl millet ( <i>Pennisetum glaucum</i> L.) seedling in response to chloride-based salinity                                                          | Pansuriya Kalpesh R.<br>(J4-01173-2013)     | Dr. S. V. Patel     |
| 2.                  | Biochemical changes in pearl millet ( <i>Pennisetum glaucum</i> L.) seedling in response to sulphate-based salinity                                                          | Ukani Piyush K.<br>(J4-01198-2013)          | Dr. H. P. Gajera    |
| 3.                  | Evaluation of phenolics and antioxidant enzyme systems for <i>fusarium</i> wilt resistance in chickpea ( <i>Cicer arietinum</i> L.) and their relationship with STMS markers | Chirag Vallabhbhai Patel<br>(J4-01025-2012) | Dr. H. P. Gajera    |
| 4.                  | Evaluation of phenolics and antioxidant enzyme systems for <i>phytophthora</i> blight resistance in sesamum ( <i>Sesamum indicum</i> L.)                                     | Mori Disha S.<br>(J4-01057-2012)            | Dr. S. V. Patel     |
| 5.                  | Antioxidant and phytochemical characterization of custard apple ( <i>Annona squamosa</i> L.)                                                                                 | Yashwant Kumar<br>(J4-01093-2012)           | Dr. H. P. Gajera    |
| <b>Year 2016-17</b> |                                                                                                                                                                              |                                             |                     |
| 6.                  | Effect of PGPR on biochemical changes during different stages of coriander ( <i>Coriandrum sativum</i> L.) seedlings                                                         | Warwate Sunil I.<br>(J4-01435-2014)         | Dr. U. K. Kandoliya |
| <b>Year 2017-18</b> |                                                                                                                                                                              |                                             |                     |
| 7.                  | Biochemical changes in groundnut ( <i>Arachis hypogaea</i> L.) In response to stem rot ( <i>Sclerotium rolfsii</i> ) infection                                               | Pipaliya Hardik R.<br>(2010115062)          | Dr. G. V. Maraviya  |
| 8.                  | Biochemical characterization for induced systemic resistance by <i>Pseudomonas</i> antagonists against <i>Alternaria</i> Blight in cumin                                     | Italiya Chirag J.<br>(2010115034)           | Dr. S. V. Patel     |
| 9.                  | Biochemical characterization for induced systemic resistance by <i>Bacillus</i> antagonists against <i>Fusarium</i> wilt in cumin                                            | Kalaria Hiren S.<br>(2010115040)            | Dr. H. P. Gajera    |
| <b>Year 2018-19</b> |                                                                                                                                                                              |                                             |                     |
| 10.                 | Biochemical changes influenced by nanoparticles treatments in germinating coriander ( <i>Coriandrum sativum</i> L.)                                                          | Desai Niralben R.<br>(2010116029)           | Dr. S. V. Patel     |
| 11.                 | Effect of exogenous application of salicylic acid on green gram ( <i>Vigna radiate</i> (L.) wilczek) irrigated with saline water                                             | Trivedi Sandhyaben K.<br>(2010116123)       | Dr. U. K. Kandoliya |
| 12.                 | Effect of exogenous application of salicylic acid on black gram ( <i>Vigna mungo</i> (L.) Hepper) irrigated with saline water                                                | Solanki Mitalben V.<br>(2010115086)         | Dr. U. K. Kandoliya |
| 13.                 | Metabolomics and morphological characterization of macroalgae                                                                                                                | Parmar Krupalkumar A.<br>(2010116087)       | Dr. P. J. Rathod    |
| <b>Year 2019-20</b> |                                                                                                                                                                              |                                             |                     |
| 14.                 | Response of biochemical changes of thiourea application in wheat ( <i>Triticum aestivum</i> L.) under water deficit stress                                                   | Guna Gautam D.<br>(2010116043)              | Dr. M. K. Mandavia  |
| 15.                 | Effect of salicylic acid on biochemical and physiological changes in pigeon pea ( <i>Cajanus cajan</i> L.) in response to saline water stress                                | Bhuva Jaykumar V.<br>(2010117020)           | Dr. G. V. Maraviya  |
| 16.                 | Effect of seed priming of pearl millet ( <i>Pennisetum glaucum</i> L.) with salicylic acid on                                                                                | Parmar Shraddhaben R.                       | Dr. M. K. Mandavia  |

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|                     | physiological and biochemical changes under salinity stress                                                                                                                       | (2010117087)                                             |                                     |
| 17.                 | Effect of gibberellic acid, potassium nitrate and silicic acid on biochemical changes in cowpea ( <i>Vigna unguiculata</i> L. Walp) seedling irrigated with saline water          | Patel Riddhi S.<br>(2010117099)                          | Dr. U. K. Kandoliya                 |
| 18.                 | Effect of salicylic acid on biochemical and physiological changes in pigeon pea ( <i>Cajanus cajan</i> L.) in response to water stress                                            | Rakholiya Kishankumar P.<br>(2010117110)                 | Dr. G. V. Maraviya                  |
| 19.                 | Effect of gibberellic acid, potassium nitrate and silicic acid on biochemical changes in Groundnut ( <i>Arachis hypogaea</i> L.) seedling irrigated with saline water             | Purohit Harsh B.<br>(2010117106)                         | Dr. U. K. Kandoliya                 |
| 20.                 | Physiological and biochemical characterization of prickly pear accessions                                                                                                         | Kadam Dipak D.<br>(2010117055)                           | Dr. S.S. Sapre                      |
| 21.                 | Biochemical changes influenced by nanoparticles treatments in germinating chilli ( <i>Capsicum annuum</i> L.)                                                                     | Parmar Bhavnaben R.<br>(2010117085)                      | Dr. H. P. Gajera                    |
| <b>Year 2020-21</b> |                                                                                                                                                                                   |                                                          |                                     |
| 22.                 | Biochemical changes influenced by nanoparticles treatments in germinating cumin ( <i>Cuminum cyminum</i> L.)                                                                      | Thummar Khushbu A.<br>(2010118102)                       | Dr. H. P. Gajera                    |
| 23.                 | Effect of growth regulators on physiological and biochemical changes in mothbean ( <i>Vigna aconitifolia</i> Jacq.) irrigated with saline water                                   | Shaikh Kaniz A. Fatema<br>Samsuddeenbhai<br>(2010118089) | Dr. U. K. Kandoliya                 |
| 24.                 | Effect of salicylic acid on biochemical and physiological changes in maize ( <i>Zea mays</i> L.) in response to water stress                                                      | Talavia Shruti Ben<br>Mahendrakumar<br>(2010118099)      | Dr. G. V. Marviya                   |
| 25.                 | Biochemical aspect of processing in different millets                                                                                                                             | Patoliya Hinal<br>Pravinbhai<br>(2010118082)             | Dr. S. S. Sapre                     |
| 26.                 | Effect of growth regulators on physiological and biochemical changes in chickpea ( <i>Cicer arietinum</i> L.) irrigated with saline water                                         | Varun Y D<br>(2010118111)                                | Dr. U. K. Kandoliya                 |
| <b>Year 2021-22</b> |                                                                                                                                                                                   |                                                          |                                     |
| 27.                 | Biochemical changes in resistant and Susceptible Genotypes of Castor ( <i>Ricinus communis</i> L.) in Response to Wilt ( <i>Fusarium oxysporum</i> f. sp. <i>ricini</i> ) Disease | Marakana Ravikumar<br>Devjibhai<br>(2010118059)          | Dr. G. V. Marviya<br>Dr. A. G. Vala |
| 28.                 | Effect of edible coating on biochemical changes in guava fruit ( <i>Psidium guajava</i> L.) during storage                                                                        | Makadiya Dhruvinkumar D.<br>(2010119059)                 | Dr. S. S. Sapre                     |
| 29.                 | Biochemical and minerals profiling of peanut ( <i>Arachis hypogaea</i> L.) genotypes                                                                                              | Varu Harsh<br>Punjabhai<br>(2010119117)                  | Dr. P. J. Rathod                    |
| 30.                 | Decoding of phytochemicals and bioactive compounds of some medicinal plants growth in saurashtra region                                                                           | Umamaheshwar Y<br>(2010119107)                           | Dr. P. J. Rathod                    |
| 31.                 | Assessment of diversity in brinjal ( <i>Solanum melongena</i> L.) fruit colour through biochemical                                                                                | Ram Mayurkumar L.                                        | Dr. P. J. Rathod                    |

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|                     | and metabolic traits                                                                                                                                                            | (2010118084)                                 |                     |
| 32.                 | Influence of salinity stress and seed priming on biochemical aspects of wheat ( <i>Triticum aestivum</i> L.) seedling                                                           | Patel Shreya S.<br>(2010119084)              | Dr. G. V. Marviya   |
| 33.                 | Biochemical changes influenced by nanoparticle treatments during fusarium wilt infection in castor ( <i>Ricinus communis</i> L.)                                                | Chovatiya Nirbhay C.<br>(2010119020)         | Dr. H. P. Gajera    |
| 34.                 | Biochemical changes in pearl millet flour during storage.                                                                                                                       | Ninama Sandhyadevi S.<br>(2010119076)        | Dr. S. S. Sapre     |
| 35.                 | Effect of roasting and storage on nutritional quality of groundnut ( <i>Arachis hypogaea</i> L.) kernels.                                                                       | Mahla Nitignakumari S.<br>(2010119057)       | Dr. M. K. Mahatma   |
| <b>Year 2022-23</b> |                                                                                                                                                                                 |                                              |                     |
| 36.                 | Protein and fatty acid profiling of spreading, semi spreading and bunch types varieties of groundnut ( <i>Arachis hypogaea</i> L.)                                              | Gore Vishnu Baparao<br>(2010120033)          | Dr. P. J. Rathod    |
| 37.                 | Effect of different polysaccharide based edible coatings on shelf life of tomato ( <i>Lycopersicon esculentum</i> L.)                                                           | Sondarva Rutvik Pravinbhai<br>(2010120083)   | Dr. S. S. Sapre     |
| 38.                 | Effect of seed priming on biochemical parameters under water stress in chickpea ( <i>Cicer arietinum</i> L.)                                                                    | Pansara Parthkumar Naranbhai<br>(2010120064) | Dr. G. V. Marviya   |
| 39.                 | Effect of nanoparticles on physiological and biochemical parameters under water stress in wheat ( <i>Triticum aestivum</i> L.)                                                  | Gulla Bhavitha<br>(2010120034)               | Dr. G. V. Marviya   |
| <b>Year 2023-24</b> |                                                                                                                                                                                 |                                              |                     |
| 40.                 | Effect of different agricultural waste on growth, yield and nutritional composition of oyster mushroom ( <i>Pleurotus ostreatus</i> )                                           | Akola Riddhi Kantibhai<br>(2010121001)       | Dr. S. S. Sapre     |
| 41.                 | Effect of growth regulators on physiological and biochemical changes in pearl millet [ <i>Pennisetum glaucum</i> (L.) r. br.] irrigated with saline water                       | Kundan<br>(2010121076)                       | Dr. G. V. Maravia   |
| <b>Year 2024-25</b> |                                                                                                                                                                                 |                                              |                     |
| 42.                 | Effect of plant growth regulators on physiological and biochemical parameters of indian mustard [ <i>Brassica juncea</i> (L.) czern and coss.] under irrigation of saline water | Vadhel Hiteshkumar Jitubhai<br>(2010120097)  | Dr. U. K. Kandoliya |
| 43.                 | Morphological and phytochemical depiction of tomato fruits at green and red ripen stages                                                                                        | Sarvaiya Purvisha Nileshbhai<br>(2010122062) | Dr. P. J. Rathod    |
| 44.                 | Biochemical and morpho-physiological changes in fenugreek ( <i>Trigonella foenumgraecum</i> L.) in response to salinity                                                         | Bhut Jayesh Morarjibhai<br>(2010122009)      | Dr. S. S. Sapre     |
| <b>Year 2025-26</b> |                                                                                                                                                                                 |                                              |                     |
| 45.                 | Physio-biochemical response to exogenous application of growth hormones on soybean ( <i>Glycine max</i> L.) seedlings irrigated with saline water                               | Ram Priyanka Devatbhai<br>(2010123057)       | Dr. U. K. Kandoliya |