Ph.D. Theses Submitted

Sr. No.	Title of the thesis	Name of the student	Name of guide
Plant Molecular Biology and Biotechnology			
Year 2015-16			
1.	De novo transcriptome sequencing to discover putative genes associated with drought tolerance and their expression in pearl millet (*Pennisetum glaucum* l.)	AnatalaTusharkumar J. (J4-01016-2012)	Dr. M. K. Mandavia
2.	Molecular and biochemical characterization of drought tolerant endophytic bacteria isolated from wild*Poaceae* family plants	Akbari Disheeta L. (J4-00794-2011)	Dr. B. A. Golakiya
3.	Molecular and biochemical characterization of salt tolerant endophytic bacteria isolated from wild *Malvaceae*family plants	BhadaniaRoshani A. (J4-01021-2012)	Dr. B. A. Golakiya
4.	Gene expression study of host pathogen interaction during papaya ring spot virus infection in papaya (*Carica papaya* L.)	Pritesh HargovindbhaiSabara (J4-00523-2009)	Dr. D. N. Vakharia
5.	Whole genome sequencing of sesame (S*esamum indicum* L.) cv. Guj. Til-10 using next-generation sequencer	Vaja Mahesh B. (J4-00686-2010)	Dr. B. A. Golakiya
Year 2016-17			
6.	Interspecific protoplast fusion between *Trichoderma harzianum* and *Trichoderma viride* for biocontrol improvement	Lakhani Hardik N. (J4-00641-2010)	Dr. D. N. Vakharia
7.	Molecular characterization of *Psedomonas* for biocontrol activity in phytopathogen systems	VajaKomalben N. (J4-01200-2013)	Dr. H. P. Gajera
Year 2017-18			
8.	Molecular characterization of aflatoxin producing *Aspergillus* in groundnut and their remedies with bacterial nanoparticles	Bharose Achyut A. (J4-01345-2014)	Dr. H. P. Gajera
9.	Transcriptome Profiling of chickpea (*Cicerarietinum* L.) with relation to wilt disease (*Fusarium oxysporum* f. sp. Ciceri)	JasminkumarVanmalibhaiKheni (J4-01151-2013)	Dr. B. A. Golakiya
10.	Characterization of transgenic groundnut (*Arachis hypogaea* L.) expressing the *ZAT12* transcription factor gene under abiotic stresses	Abhay Kumar (J4-01014-2012	Dr. T. Radhakrishnan
11.	Transcriptome dynamics and biochemical appraisal of *Arachis hypogaea* ssp. virginia bunch during flower development	UmretiyaNimita G. (J4-01423-2014)	Dr. B. A. Golakiya
12.	Isolation, antagonism and genome characterization of aflatoxigenic and atoxigenic *Aspergillus*	JayeshkumarHarjibhaiKahodariya (J4-00627-2010)	Dr. H. P. Gajera
13.	Transcriptome analysis of wheat (*Triticum aestivum* L. Em. Thell) under heat stress at booting stage	NandhaAbhijeeta K. (J4-01389-2014)	Dr. D. R. Mehta
14.	Genome and transcriptome sequencing of coriander (*Coriandrum sativum* L.) to reveal its	TulsaniNilam J. (J4-01422-2014)	Dr. B. A. Golakiya

	genome architecture		
15.	Linkage and QTL mapping for blast resistance in pearl millet (*Pennisetum glaucum* (L.) R. Br.)	SanghaniJayeshkumar M. (J4-01187-2013)	Dr. B. A. Golakiya
Year 2018-19			
16.	*Insilico* identification and target prediction of microRNAs and their expression profiling in *Sesamum indicum* L.	Joshi HalakbenVibhakarbhaiMinaxiben (J4-01154-2013)	Dr. M. K. Mandavia
17.	microRNA profiling, antifungal and nanoformulation characterization of multi stress tolerant *Trichodermafusants* for biocontrol activity against *Sclerotium rolfsii*sacc. causing stem rot in Groundnut	HirparaDarshna G. (1010115007)	Dr. H. P. Gajera
18.	Construction of linkage mapping and identification of quantitative trait loci (QTL) for earliness, grain size and leaf rust resistance in bread wheat (*Triticum aestivum* L.)	DelvadiyaNiravkumar A. (J4-01137-2013)	Dr. D. R. Mehta
19.	De novo transcriptome sequencing and metabolom analysis at flowering stage in off season bearing Mango (*Mangifera indica* L.)	Desai Hiralben V. (J4-01357-2014)	Dr. M. K. Mandavia
20.	Molecular analysis of transgenic groundnut (*Arachis hypogaea* L.) expressing the transcription factor *DREB1A* driven by an inducible promoter under drought stress	Bhalani Hiren N. (J4-01022-2012)	Dr. Radhakrishnan T.
Year 2019-20			
21.	Mapping and validation of SSR markers associated with foliar-fungal disease resistance QTLs and development of RILs in groundnut(*Arachis hypogaea* L.)	Suhail Ahmed A. Hakeem (J4-01418-2014).	Dr. H. P. Gajera
22.	Transcriptome and hormone profiling of sesame (*Sesamum indicum* L.) during interaction with *Macrophominaphaseolina*	Radadiya Nidhi G. (101015013)	Dr.B.A. Golakiya
Year 2020-21			
23.	Molecular approach for development of potential beauveria based nano-biopesticide to control infection of sucking pest.	BhadaniRushita V. (1010117002)	Dr. H. P. Gajera
24.	Transcriptome &Metabolic profiling in response to fusarium wilt in castor (*Ricinus communis* L.)	Kachhadiya Harshita J. (1010117009)	Dr. D. R.Mehta
25.	Comparative transcriptome and metabolomics profiling of aflatoxin resistant and susceptible groundnut influenced by toxigenic and non-toxigenic *Aspergillus flavus*	Antala Virali G. **(**1010116001**)**	Dr. B. A. Golakiya
26.	Transcriptome sequencing and metabolomic characterization of barnyard millet (*Echinochloa frumentacea* L.) to discover putative genes involved in spike development and its neutraceutical properties flavus	PadhiyarShitalben M. (1010117014)	Dr. R. S. Tomar
27.	Utilizing groundnut (*Arachis hypogaea* L.)	ParakhiyaManojk	Dr. B. A.

	rhizosphere microbiome for biological control of dry root rot	umar V. (J4-01443-2014)	Golakiya
28.	Transcriptome and metabolic profiling in response to root rot (*Macrophominaphaseolina)*infection in mungbean [*Vigna rediata* (L.)Wilczek]	DabhiKirtibahen A. (1010116004)	Dr. H. P. Gajera
Year 2021-22			
29.	Comparative Transcriptome analysis of male and female flower in spine gourd (*Momordica dioica*)during different stages of bud formation	VasavaDivyesh K. (1010118025)	Dr. R. S. Tomar
30.	CRISPR-mediated genome editing in tomato (*Solanum lycopersicum* Mill) for herbicide resistance	Shashikant Sharma (1010117025)	Dr. B. A. Golakiya
31.	*Denovo*Transcriptome analysis of a medicinal plant:*Telosma pallida* L.	Umaretiya Vidisha R. (1010118023)	Dr. D. R. Mehta
32.	Transcriptome and phytohormone profiling of groundnut(*Arachis hypogaea* L.) to understand the mechanism of fresh seed dormancy	Hemangini A. Chaudhary (1010117006)	Dr. M.K. Mahatma
Year 2022-23			
33.	Genome editing through crispr-cas 9 for improvement of oil quality in soybean (*Glycine max* (L.) Merrill**)**	Rathod Balaji Ulhas (1010119025)	Dr. R. S.Tomar
34.	Microbiome diversity and metagenomics analysis associated with *Fusarium* Wilt in cumin rhizosphere	Hirani Nimisha Vinubhai (1010118011)	Dr. H.P. Gajera
35.	Gene expression of castor genotype upon fungal infection (*Macrophominaphaseolina*) and identification of disease resistant gene	Shulabhi Verma (J4-00532-2009)	Dr. B.A. Golakiya
36.	*De Novo* transcriptome sequencing and metabolomics profiling to discover putative genes of little millet (*Panicum sumatrense* L.) associated to drough tolerance	Dhawale Ramesh NarayanRao (1010119006)	Dr. R.S. Tomar
37.	Transcriptome and biochemical changes influenced by nanosilicon under drought in germinating chickpea (*Cicer arietinum* l.)	HiraparaKinjalkumariMukeshbhai (1010119009)	Dr. H.P. Gajera
Year 2023-24			
38.	Transcriptome and biochemical depictions of developing anther influenced by salicylic acid functionalized nanochitosan under heat stress in cotton (*Gossypium hirsutum* l.)	SavaniKhyatiRasikbhai (1010120023)	Dr. H.P. Gajera
39.	Differential gene expression profiling of dwarf and tall coconut (*Cocos nucifera* L.) genotypes using transcriptome sequencing	Savaliya Nidhi Vinodbhai (1010120022)	Dr. R. S. Tomar
40.	Development of salinity stress tolerant transgenic	LikhindraReang	Dr. D. R.

	tomato (*Solanum lycopersicum*L.)	(1010119016)	Mehta
Year 2024-25			
41.	Exploiting nano-scale zinc nutrition and molecular interventions to improve yield and quality of Groundnut (*Arachis hypogaea* L.)	Ashwini M. N. (1010121028)	Dr. H. P. Gajera
42.	Transcriptome and metabolome profiling during drought mitigating nano-silicon in groundnut (*Arachis hypogaea* L.)	Devendra Kumar (1010120005)	Dr. H. P. Gajera
Biochemistry			
Year 2017-18			
1.	Biochemical and molecular basis of innate and *Pseudomonas flurescence* induced stem rot tolerance in groundnut (*Arachis hypogeae* L.)	Sujit Kumar Bishi (J4-01084-2012)	Dr. D. N. Vakharia
2.	Transcriptomic and metabolomic analysis of groundnut (*Arachis hypogaea* L.) under varying temperature	RavalSacheenkumar S. (J4-01183-2013)	Dr. M. K. Mahatma
3.	Biochemical and molecular changes in Pearl Millet (*Pennisetum glaucum* L.) genotypes subjected to short term water stress and its revival	Deshmukh Shubham Babanrao (J4-01028-2012)	Dr. M. K. Mandavia
Year 2018-19			
4.	Isolation, separation, identification and characterization of an active ingredients from anticancer medicinal plants	Joshi Kavita B. (J4-01155-2013)	Dr. M. K. Mandavia
5.	Isolation, separation and identification of active ingredients from antidiabetic medicinal plants	Timbadiya Priyanka N. (J4-01421-2014)	Dr. M. K. Mandavia
Year 2019-20			
6.	Biochemical and molecular analysis in pearl millet (*Pennisetum glaucum* L.) genotypes under heat stress during flowering stage	Ukani Piyush K. (1010116019)	Dr. M. K. Mandavia
Year 2020-21			
7.	Biochemical and molecular characterization of chickpea (*Cicer arietinum* L.)under heat stress	Pipaliya Hardik R. (1010117017)	Dr. H.P.Gajera
Year 2021-22			
8.	Biochemical changes influenced by silicon and nano-silicon during salt stress in chickpea (*Cicer arietinum* L.)	Trivedi Sandhya K. (1010118022)	Dr. H. P.Gajera
9.	Biochemical and molecular evalution of nutritional and anti-nutritional compounds in groundnut kernals at various pod developing stages during moisture deficit condition.	Solanki Mitalben V. (1010118021)	Dr. M.K.Mahatma
Year 2022-23			
10.	Biochemical changes influenced by nano-silicon under salinity in germinating seeds of Groundnut (*Arachis hypogaea* L.)	Purohit Harsh Bharatbhai (1010119024)	Dr. H.P. Gajera

Year 2023-24			
11.	Deciphering the efficacy of iron oxide nanoparticles to mitigate nutritional requirement in groundnut	SmrutirekhaSahu (1010120024)	Dr. U.K. Kandoliya
12.	Ameliorating effect of gibberellic acid, abscisic acid and salicylic acid on changes in physio biochemical composition and oxidative enzymes in wheat (*Triticum aestivum* L.) irrigated with saline water	PatoliyaHinal Pravinbhai (1010120019)	Dr. U. K. Kandoliya
Year 2024-25			
13.	Biochemical changes influenced by nano-silicon under salinity in seedlings of green gram (*Vigna radiata* (L.) r. wilczek)	Chovatiya Nirbhay Chimanbhai (1010121002)	Dr. U. K. Kandoliya
Year 2025-26			
14.	Biochemical changes influenced by nano-silicon under drought in germinating groundnut (*Arachis hypogaea* L.)	Guna Gautam Dayabhai (1010120009)	Dr. H. P. Gajera
15.	Assessing the effect of silicon on alleviating heavy metal stress in Tomato: A comprehensive investigating of biochemical physiological and molecular responses	Lakhani AmibenVinubhai (1010122009)	Dr. U. K. Kandoliya
Year 2026-27			
16.	Influence of salicylic acid on growth and biochemical response under saline condition in a sesamum (*Sesamum indicum* L.)	Japda Ashishkumar Ranmalbhai (1010122021)	Dr. H. P. Gajera