

Department of Biochemistry

Details of Post graduate students passed out from the department (Since 2004):

Sr. No.	Title of Thesis	Name of Student	Degree	Name of Major Guide	Year of Passing
1	2	3		4	5
1.	Biochemical techniques for rice (<i>Oryza sativa</i> L.) variety identification	Diwarkar Singh	M.Sc.	Dr. J.G. Talati	2004
2.	Biochemical and metabolic studies in paddy (<i>Oryza sativa</i> L.) in response to salinity	Varshaben P. Suthar	Ph.D.	Dr. R. Bhatnagar	2005
3.	Biochemical characterizations and effects of osmoprotectants upon sodium chloride salinity stress in rice cultivars.	Mungara Balakrishna	M.Sc.	Dr. Y.M. Shukla	2006
4.	Biochemical and molecular characterization of pearl millet (<i>Pennisetum glaucum</i> (L.) R. Br.) genotypes for downy mildew resistance.	Mahesh Kumar Mahatma	M.Sc.	Dr. R. Bhatnagar	2006
5.	Effect of nitrogen and phosphorus on Indian-biochemical parameters of potato (<i>Solanum tuberosum</i> L.) varieties during storage	Vakta H. Kanbi	Ph.D.	Dr. R. Bhatnagar	2007
6.	Molecular and biochemical characterizations of some elite genotypes of finger millet (<i>Eleusine coracana</i> L. Gaertn.)	More Amar S.	M.Sc.	Dr. Y.M. Shukla	2008
7.	Molecular and biochemical characterization of quality protein maize (QPM) genotypes	Panifar Dilraj kaur M.	M.Sc.	Dr. R. Bhatnagar	2008
8.	Biochemical and molecular characterization of some elite genotypes of grain amaranthus (<i>Amaranthus</i> spp.)	Kadam Sukshala D.	M.Sc.	Dr. Y.M. Shukla	2008
9.	Molecular and biochemical characterization of chickpea (<i>Cicer arietinum</i> L.) genotypes	Suthar Kiran P.	M.Sc.	Dr. R. Bhatnagar	2008
10.	Enhancement of stevioside in <i>Stevia rebaudiana</i> through growth regulator treatments.	Modi Arpan	M.Sc.	Dr. Y.M. Shukla	2008
11.	Varietal identification of chilli (<i>Capsicum annum</i> L.) using biochemical and molecular markers.	Litoriya Nitesh S.	M.Sc.	Dr. J.G. Talati	2008
12.	Varietal identification of pearl millet (<i>Pennisetum glaucum</i> L.) hybrids and	Shah Avadh K.	M.Sc.	Dr. J.G. Talati	2009

	parental lines using biochemical and molecular markers.				
13.	Biochemical and molecular studies on maize (<i>Zea mays</i> L.) genotypes for water stress tolerance.	Mittal Girish kumar	M.Sc.	Dr. R. Bhatnagar	2009
14.	Effect of osmoprotectants on tomato (<i>Lycopersicum esculentum</i> L.) under sodium chloride salinity stress.	Remya R. Nair	M.Sc.	Dr. Y.M. Shukla	2010
15.	Biochemical and molecular characterization of wheat cultivars (<i>Triticum aestivum</i> L. and <i>T. durum</i> L.).	Patil Vishal R.	M.Sc.	Dr. J.G. Talati	2010
16.	Effect of brassinolide seed treatment on biochemical and molecular characterizations of rice (<i>Oryza sativa</i> L.) under NaCl salinity stress.	Miss Tania Das	M.Sc.	Dr. Y.M. Shukla	2010
17.	Biochemical markers for screening of downy mildew resistance in pearl millet (<i>Pennisetum glaucum</i> L.).	Sapre Sarang S.	M.Sc.	Dr. J.G. Talati	2010
18.	Effect of phytohormones and polyamine to improve salt tolerance in tomato (<i>Lycopersicum esculentum</i> L.).	Sagar Ahire	M.Sc.	Dr. J.G. Talati	2010
19.	Screening of re-colonial inbred line (RILs) of rice (<i>Oryza sativa</i> L.) segregating aroma trait using molecular and biochemical markers.	Abhishek singh	M.Sc.	Dr. R. Bhatnagar	2011
20.	Molecular and biochemical characterization of wheat genotypes (<i>Triticum aestivum</i> L. and <i>T. durum</i> L.) for drought stress.	Zala Harshvardhan N.	M.Sc.	Dr. Y.M. Shukla	2011
21.	Transcriptome analysis and identification of defense related genes during downy mildew (<i>Sclerospora graminicola</i> Sacc.) infection in pearl millet (<i>Pennisetum glaucum</i> L.).	Bosamia Tejas C.	M.Sc.	Dr. Y.M. Shukla	2011
22.	Comparative transcriptome analysis from resistant and susceptible pearl millet (<i>Pennisetum glaucum</i> L.) genotypes in response to downy mildew (<i>Sclerospora graminicola</i> Sacc.) infection.	Kulkarni Kalyani S.	M.Sc.	Dr. R. Bhatnagar	2011
23.	Identification and validation of internal control genes for quantitative gene expression studies in pearl millet under biotic stress (downy mildew infection) and abiotic stress (salt stress).	Kanani Poonam D.	M.Sc.	Dr. Y.M. Shukla	2012

24.	Differential gene expression analysis for downy mildew (<i>Sclerospora graminicola</i> Sacc.) in pearl millet (<i>Pennisetum glaucum</i> L.).	Patdia Krishnabahen C.	M.Sc.	Dr. Y.M. Shukla	2012
25.	Effect of gibberellic acid, potassium nitrate and silicic acid on fruit development and storage life of tomato (<i>Lycopersicon esculentum</i> Mill.).	Poonam	M.Sc.	Dr. J.J. Dhruv	2012
26.	Biochemical and molecular characterization of pigeonpea (<i>Cajanus cajan</i> L.) genotypes in response to wilt (<i>Fusarium udum</i> Butler).	Patel N.J.	Ph.D.	Dr. J.G. Talati	2012
27.	Differential gene expression study for heat, drought and combine heat and drought in wheat (<i>Triticum aestivum</i> L.) genotypes.	Rafalia Rutul V.	M.Sc.	Dr. Y.M. Shukla	2012
28.	Differential gene expression study on drought stress responsive genes and validation in pearl millet (<i>Pennisetum glaucum</i> L.).	Patel Heli J.	M.Sc.	Dr. Y.M. Shukla	2013
29.	Screening of wheat genotypes (<i>Triticum durum</i> L.) for drought tolerance through biochemical and physiological approaches.	Kadam Sukshala Dattatray	Ph.D.	Dr. Y.M. Shukla	2013
30.	Biochemical and molecular characterization of okra (<i>Ablemoscus esculentus</i> L.).	Patel Jalpesh S.	M.Sc.	Dr. J.J. Dhruv	2013
31.	Comparison of nutritional quality of wheat grown by chemical fertilizers and organic manures.	Litoriya Nitesh S.	Ph.D.	Dr. J.G. Talati	2013
32.	Transcriptome analysis and identification of defence related genes in response to downy mildew (<i>Peronospora plantaginis</i>) infection in isabgol (<i>Plantago ovate</i> Forsk).	Vinaykumar	Ph.D.	Dr. Y.M. Shukla	2013
33.	Effect of benzyladenine on biochemical changes in maize (<i>Zea mays</i> L.) seedlings during induced drought stress.	Ahire Shailesh V.	M.Sc.	Dr. J.G. Talati	2013
34.	Biochemical and molecular characterization of sweet corn (<i>Zea mays</i> L.).	Diwan Saleha B.	M.Sc.	Dr. J.G. Talati	2013
35.	Biochemical and molecular characterization of castor (<i>Ricinus communis</i> L.) genotypes.	Kulshrestha Kinjal	M.Sc.	Dr. J.G. Talati	2013
36.	Effect of benzyladenine on biochemical changes during water deficit stress in pearl millet seedling.	Joshi Prathmesh G.	M.Sc.	Dr. J.J. Dhruv	2013

37.	Biochemical and molecular characterization of cold induced sweetening in potato (<i>Solanum tuberosum</i> L.) varieties during storage.	Galani Yamdeu Joseph H.	Ph.D.	Dr. J.G. Talati	2014
38	Transcriptome based identification of genes associated with downy mildew (<i>Sclerospora graminicola</i> Sacc.) resistance in pearl millet (<i>Pennisetum glaucum</i> L.).	Kulkarni Kalyani S.	Ph.D.	Dr. Y.M. Shukla	2014
39	Biochemical and molecular characterization of 4ndian mustard [<i>Brassica juncea</i> (L.) Czern & Coss] genotypes.	Chaudhari Jyotsna N.	M.Sc.	Dr. Y.M. Shukla	2014
40	Biochemical characterization of cotton (<i>Gossypium herbaceum</i> L.) for seed quality traits.	Gandhi Kelvin D.	M.Sc.	Dr. J.G. Talati	2014
41	Morphological, biochemical and molecular characterization of okra cultivars (<i>Abelmoschus esculentus</i> L.)	Japda Ashishkumar R.	M.Sc.	Dr. J.J. Dhruv	2014
42	Development and validation of EST derived SSR and SNP markers with relevance to downy mildew (<i>Sclerospora graminicola</i> Sacc.) resistance in pearl millet (<i>Pennisetum glaucum</i> L.).	Zala Harshvardhan N.	Ph.D.	Dr. Y.M. Shukla	2014
43	Identification of biochemical and molecular markers for elite Quality Protein maize (QPM) genotypes.	Shah Avadh K.	Ph.D.	Dr. Y.M. Shukla	2014
44	Characterization of candidate genes for lysine and tryptophan biosynthetic pathways in maize (<i>Zea mays</i> L.) inbred lines.	Gupta Pooja H.	Ph.D.	Dr. J.G. Talati	2014
45	Genetic transformation of Nucleotide Binding Site-Leucine Rich Repeat (NBS-LRR) of <i>Mi</i> gene for developing resistance against <i>Meloidogyne incognita</i> in tomato (<i>Solanum lycopersicum</i> L.).	Rafalia Rutul V.	Ph.D.	Dr. Y.M. Shukla	2015
46	Genetic transformation of Nucleotide Binding Site-Leucine Rich Repeat (NBS-LRR) of <i>Mi</i> gene for developing resistance against <i>Meloidogyne incognita</i> in tomato (<i>Solanum lycopersicum</i> L.).	Mishra Ankita	Ph.D.	Dr. Y.M. Shukla	2015
47.	Characterization of okra (<i>Abelmoschus esculentus</i> L. Moench) genotypes through biochemical and molecular markers	Kinjal Bhutaka	M.Sc.	Dr.J.J. Dhruv	2016

48.	Characterization and expression studies for iron transporter and storage genes in kodo millet (<i>Paspalum scrobiculatum</i> L.)	Prajapati Vijaykumar I.	Ph.D.	Dr. J.G. Talati	2016
49.	Effect of limited irrigation on quality of durum wheat (<i>Triticum durum</i> Desf.)	Arpita Jayeshbhai Dalwadi	M.Sc.	Dr. J.G. Talati	2016
50.	Differential gene expression and Proteomics study during root knot Nematode (<i>meloidogyne incognita</i>) infection in Tomato (<i>solanum lycopersicum</i> l.)	Vyomesh S. Patel	Ph.D.	Dr. Y. M. Shukla	2017
51.	Characterization of soybean (<i>Glycine max</i> L.) genotypes through biochemical and SSR markers for nutritional quality	Kalyani K. Chaudhari	M.Sc.	Dr. N.J. Patel	2017
52.	Morphological, biochemical and molecular changes in response to silicic acid against root knot nematode and VYMV disease in okra (<i>Abelmoschus esculentus</i> L. Moench)	Saleha B. Diwan	Ph.D.	Dr. J.J. Dhruv	2018
53.	Biochemical characterization of wheat in relation to phytic acid gene during seed development	Harshadkumar R. Sodhaparmar	M.Sc.	Dr. N.J. Patel	2018
54.	Nutraceutical and molecular characterization of pumpkin (<i>Cucurbita moschata</i> Duch. Ex. Poir)	Zala Dimpalben Mansinhbhai	M.Sc.	Dr. J.J. Dhruv	2019
55.	Biochemical characterization of wheat in relation to phytic acid gene during seed development.	Saneha Patel	M.Sc.	Dr. N.J. Patel	2019
56.	“Influence of drought on biochemical characters, gum quality and study of galactomannan in cluster bean (<i>Cyamopsis tetragonoloba</i> L. Taub) genotypes.”	Adbhai Anuja Rameshchand	Ph.D.	Dr. J. G. Talati	2019
57.	“Evaluation of antioxidants and differential gene expression in response of melatonin in bottle gourd (<i>Lagenaria siceraria</i> (Mol.) Standl.)”.	Bedse Tushar J	Ph.D.	Dr. J.J. Dhruv	2020
58	Effect of sprouting time on nutritional Quality of chickpea (<i>Cicer arietinum</i> L.) and mungbean (<i>Vigna Sadiate</i> L.)	Madastu Saikrishna	M.Sc.	Dr. N.J. Patel	2020

59	“Study on water stress and melatonin in tomato (<i>Solanum lycopersicum</i> L.) at seedling stage”	Vadee Dhruvin	M.Sc.	Dr. J.J. Dhruv	2020
60	Physio-biochemical analysis of tomato cv. GAT 5 fruits for shelf life in response to exogenous melatonin	Gadhavi Tushar. R	M.Sc.	Dr. J.J. Dhruv	2020
61	Effect of melatonin under salinity stress in cucumber (<i>Cucumis Sativus</i> L.)	Jadeja Malharsinh N.	M.Sc.	Dr. Y. M. Shukla	2021
62	Evaluation of antioxidants and differential gene expression in response of silicon in Rice (<i>Oryza sativa</i> L.) against drought	Maheta Amitkumar Ashokbhai	Ph.D.	Dr. J.J. Dhruv	2021
63	Biochemical and molecular characterization of finger millet (<i>Eleusine Coracana</i> L. Garetn) genotypes.	Solanki Urja B.	M.Sc.	Dr. N.J. Patel	2021
64	Morpho-physiological and nutraceutical characterization of Jivanti (<i>Leptadenia Reticulata</i> (Retz.) at different harvest time.	Patel Divyesh M.	M.Sc.	Dr. N. S. Litoriya	2021
65	Nutraceutical characterization of potato (<i>Solanum tuberosum</i> L.) cultivars.	Patel Parthavi K.	M.Sc.	Dr. J.J. Dhruv	2022
66	Nutraceutical characterization of cumin (<i>Cumin Cyminum</i> L.) genotypes.	Gamit Niraliben S.	M.Sc.	Dr. N. S. Litoriya	2022
67	Molecular characterization potato (<i>Solanum tuberosum</i> L.) cultivars.	Venkata Yashwanth A.	M.Sc.	Dr. J.J. Dhruv	2022
68	Mapping QTLs for TLCV (Tomato leaf curl virus) resistance in tomato (<i>Solanum lycopersicum</i> L.)	Sodhaparmar Harshadkumar R.	Ph.D.	Dr. Y. M. Shukla	2022
69	Nutraceutical evaluation of roots and leaves of Ashwagandha (<i>Withania somnifera</i> L. Dunal) at different harvesting stages.	Parmar Pallaviben K.	M.Sc.	Dr. N. J. Patel	2023
70	Comparative study of melatonin and nematicide against root-knot nematode (<i>Meloidogyne incognata</i>) in tomato (<i>Solanum lycopersicum</i> L.).	Parmar Shraddhaben R.	Ph.D.	Dr. J.J. Dhruv	2023
71	Influence of biostimulants on nutraceutical potential of brinjal (<i>Solanum melongena</i> L.)	Dobaria Jalpa Dhirajlal	Ph.D.	Dr. J.J. Dhruv	2024
72	Effect of ascorbic acid on physiological and biochemical attributes of tomato (<i>Solanum Lycopersicum</i> L.) under saline condition	RAJESH R	M.Sc.	Dr. J.J. Dhruv	2024

73	Identification of molecular markers linked to chilli leaf curl virus resistant in chilli (<i>Capsicum annuum</i> L.)	Solanki Urja B.	Ph.D.	Dr. Y. M. Shukla	2024
74	Identification of molecular markers linked to little leaf resistance in brinjal (<i>Solanum melongena</i> L.)	Chauhan Bhakti	Ph.D.	Dr. Y. M. Shukla	2024