

CENTRE FOR PLANT MOLECULAR BIOLOGY, OSMANIA UNIVERSITY

Ph.D s Awarded/Thesis submitted details

S. No.	Name of the Candidate	Title of the Thesis	Year of Award	Research Supervisor Name
1.	Ms. SravaniAkula	Analysis of Factors that Determine Cancer Drug Sensitivity and Identification of Strategies to Overcome the Inhibitor Resistance	2023	Dr. K. Rama Krishna
2.	Ms. Madhavi Reddy	Structural and functional analysis of nitrome of elite indica rice cultivar Rp Bio-226 using high throughput genomic methods	2022(S)	Prof. K. Ulaganathan
3.	Mr. Balsingh	Genomic analysis of bacterial strains occupying insect gut and decaying wood for lignocellulosic bioethanol production	2022	Prof. K. Ulaganathan
4.	Mr. Praveen Kumar	Sequencing the genome of castor wilt pathogen, Fusariumoxysporumricini and Botrytis ricini	2022(S)	Prof. K. Ulaganathan
5.	Ms. LathaBhattu	Genomics of endophytic bacteria colonizing elite indica rice cultivar RpBio-226	2022	Prof. K. Ulaganathan
6.	Ms. E.M.Sunitha	Isolation and Functional Validation of SGE1 Gene involved in Colonization of Fusariumoxysporumf.sp. ricini in Vascular Wilt of Castor using RNAi	2022	Prof. K. Ulaganathan

7.	Mr. Mote Srinath	Studies of genes involved in the biosynthesis of diterpene lactones and their expression in <i>Andrographispaniculata</i> using in vitro elicited adventurous root cultures	2022	Prof. C.C. GIRI
8.	Ms. A. Shailaja	Isolation, characterization of MEP (methyl erythritol phosphate) pathway related genes and differential expression studies using elicited multiple shoot cultures of <i>Andrographispaniculata</i> : a valuable medicinal plant	2022	Prof. C.C. GIRI
9.	Mr. A. RajenderGoud	Bioprospecting of heterotrophic <i>Pestalotiopsis</i> and Autotrophic <i>Chlorella</i>	2022	Dr. K. SrinivasNaik
10.	Mr. Ch. Neeraja	Development of genetic and genomic resources of <i>Andrographis</i> species	2021	Prof. V. Dashavantha Reddy
11.	Mr. PrabhakarBadani	Molecular Breeding of Hybrid rice for BPH resistance, Industry sponsored	2021	Prof. K. Ulaganathan
12.	Ms. DivyaBhanu	Genome-wide computational analysis of water stress responsive DNA methylation and gene expression dynamics in <i>Zea mays</i> Z59	2021	Prof. K. Ulaganathan
13.	Mr. K. Vamsee Raja	Identification and expression analysis of genes associated with improved agronomic traits of activation tagged lines of rice (<i>Oryza sativa</i> L.)	2020	Prof. K. Venkateswara Rao
14.	Mr. RajuNaini	Development of nutraceutical onion by engineering resveratrol biosynthetic pathway and chemical	2019	Prof. V. Dashavantha Reddy

		synthesis bioactive stilbene analogs		
15.	Ms. ByreddiBhavaniVenkataBindu	Proteomic and genomic studies for characterization of andrographolide biosynthetic pathway genes in <i>Andrographispaniculata</i>	2019	Prof. C.C. GIRI
16.	Ms. SravanthiGoud	Developing an yeast strain for lignocellulosic bioethanol production using high throughput genomic methods	2019	Prof. K. Ulaganathan
17.	Mr. G. Shivakrishna Rao	Production of transgenic male sterile and restorer lines for development of hybrid rice	2018	Prof. K. Venkateswara Rao
18.	Mr. B. Dayakar	Development of transgenic rice lines for durable resistance against major insects using Bt Cry1Ac::asal fusion gene	2018	Prof. K. Venkateswara Rao
19.	Ms. M. Praveena	In vitro manipulation studies for salinity tolerance in kallar grass (<i>Leptochloafusca</i>) and rice (<i>Oryza sativa</i> L.).	2018	Prof. C.C. GIRI
20.	Mr. U. Rajasekhar	Cloning and characterization of fatty acid desaturase 3 encoding gene (<i>Lufad3</i>) from flax and its functional validation in rice	2017	Prof. V. Dashavantha Reddy
21.	Ms. M. Sunitha	Development of abiotic stress tolerant transgenic rice by overexpression of <i>Cajanuscajan</i> hybrid prolinerich protein (<i>CcHyPRP</i>) and <i>C. cajan</i> cold and drought regulatory (<i>CcCCR</i>) genes	2017	Prof. K. Venkateswara Rao
22.	Mr. Mohd. Zaheer	Elicitation studies for bioactive compound production	2017	Prof. C.C. GIRI

		using different in vitro cultures of <i>Andrographispaniculata</i> .		
23.	Mr. T. Srinath	Isolation and characterization of hybrid proline rich gene promoter (CchYPRP) and cyclin dependent kinase regulatory subunit encoding gene (CKS) from pigeonpea.	2016	Prof. K. Venkateswara Rao
24.	Ms. SunitaTajne	Development of novel fusion protein containing <i>Bacillus thuringiensis</i> (Bt) Cry1Ac and <i>Allium sativum</i> lectin (ASAL) domains for resistance against lepidopteron insects.	2014	Prof. K. Venkateswara Rao
25.	Ms. R. Ramadevi	Development of Transgenic Pearl Millet (<i>Pennisetumglaucum</i> (L.) R.Br.) Resistant to Downy Mildew	2013	Prof. V. Dashavantha Reddy
26.	Mr. V.S. K. Chakravarthi	Development of transgenic cotton resistant to sap-sucking pests.	2013	Prof. K. Venkateswara Rao
27.	Mr. Ahmed A O Alhaj	Metabolic engineering of <i>Escherichia coli</i> for industrial production glucosamine and N-acetyl glucosamine	2012	Prof. V. Dashavantha Reddy
28.	Ms. L. Swapna	Functional validation of developmentally regulated inflorescence specific promoters of rice.	2012	Prof. K. Venkateswara Rao
29.	Ms. Wei Nie	Effect of a slightly arabinoxylan and xyloglucans on human skin cells Polysaccharides from <i>Plantagoovata</i> Forssk. Seed husks and <i>Tamarindusindica</i> L. seed	2012	Prof. C.C. GIRI

30.	Mr. PawanKhera	Genetic and molecular mechanisms of wide compatibility genes for exploiting inter sub-specific heterosis in rice	2011	Prof. K. Ulaganathan
31.	Mr. N. Venkata Rami Reddy	Anti-inflammatory and anti-fibrotic effects of peroxisome proliferator-activated receptor gamma (PPAR- γ) in lung disease.	2011	Prof. C.C. GIRI
32.	Mr. K. Sekhar	Isolation of abiotic stress tolerance genes from pigeonpea (<i>Cajanuscajan</i> L.), and functional validation of CcCYP and CcMT1 genes in <i>Escherichia coli</i> & <i>Arabidopsis thaliana</i> .	2010	Prof. K. Venkateswara Rao
33.	Mr. B. Vijay Kumar	Development of transgenic rice lines exhibiting enhanced resistance to fungal and bacterial diseases by over-expressing <i>Brassica juncea</i> NPR1 and <i>Oryza sativa</i> chi11 genes.	2010	Prof. K. Venkateswara Rao
34.	Mr. J. Madhusudhana Reddy	Study of variability in <i>Fusariumoxysporum</i> f.sp.riciniand development of specific markers for identification	2010	Prof. K. Ulaganathan
35.	Ms. T. Sarita	Expression of synthetic gene constructs in <i>Escherichia coli</i> for mucosal immunization in animal model systems.	2009	Prof. V. Dashavantha Reddy
36.	Mr. K. Venu	Structural and kinetic properties of <i>Bacillus subtilis</i> S adenosylmethioninesynthetase expressed in <i>Escherichia coli</i> and metabolic engineering of <i>Pichiapastoris</i> for enhanced production of S-	2009	Prof. V. Dashavantha Reddy

		adenosylmethionine.		
37.	Ms. Y. Bharathi	Evolution of transgenic rice expressing <i>Allium sativum</i> agglutinin (ASAL), and production of pyramided lines harbouring <i>AsAL</i> conferring resistance against major sap-sucking pests.	2009	Prof. K. Venkateswara Rao
38.	Ms. A. Snehalatha Rani	RNAi mediated functional validation of root development QTL associated candidate genes in rice	2009	Prof. K. Ulaganathan
39.	Mr. D E. Chandrasekhar Rao	Cloning and expression of phytase gene from <i>Bacillus</i> species and evaluation of the enzyme as a feed additive.	2008	Prof. V. Dashavantha Reddy
40.	Mr. M. Shesheer Kumar	Characterization of Indian Isolates of Hepatitis C Virus.	2008	Prof. V. Dashavantha Reddy
41.	Mr. M. Shashikanth	Computational reconstruction of rice spliceosome and Genome-wide analysis of introns and UTRs of <i>Oryza sativa</i>	2008	Prof. K. Ulaganathan
42.	Ms. Gauri Abhyankar	Genomic and metabolomic fingerprinting of hairy root cultures of <i>Phyllanthus amarus</i> and <i>Psoralea corylifolia</i> .	2007	Prof. V. Dashavantha Reddy
43.	Ms. B. Priyanka	Isolation of stress inducible genes from pigeonpea and their functional validation in yeast and <i>Arabidopsis thaliana</i> .	2007	Prof. K. Venkateswara Rao
44.	Ms. S. Mahalaxmi	Production of salt tolerant transgenic finger millet (<i>Eleusine coracana</i> L.) and Development of Plant Promoter Prediction Tool.	2006	Prof. V. Dashavantha Reddy

45.	Mr. B. Shyamkumar	In vitro propagation and genetic transformation studies in medicinal tree TerminaliachebulaRetz.	2006	Prof. C.C. GIRI
46.	Mr. C. Anjaneyulu	Somatic embryogenesis and genetic transformation studies in TerminaliachebulaRetz.	2006	Prof. C.C. GIRI
47.	Ms. A. MadhaviLatha	Production of transgenic millets resistant to fungal Pathogens.	2006	Prof. V. Dashavantha Reddy
48.	Ms. B. Malathi	Genetic transformation studies in castor (RicinuscommunisL.)	2004	Prof. V. Dashavantha Reddy
49.	Mr. Prasad Daida	Construction of synthetic AFP gene toxic to Fusariummoniliforme and assessing its potential in developing grain mold resistance in sorghum	2004	Prof. K. Ulaganathan
50.	Mr. D. Nagadhara	Genetic transformation and production of transgenic indica rice plants resistant to sap-sucking pests.	2003	Prof. K. Venkateswara Rao
51.	Ms. S. Ramesh	Production of transgenic rice plants resistant to lepidopteran pests.	2003	Prof. K. Venkateswara Rao
52.	Mr. S. SaleemBasha	Identification, isolation and purification of a broad spectrum antifungal chitinase from Bacillus subtilis BC121 and cloning the gene coding for it	2003	Prof. K. Ulaganathan
53.	Mr. Prince George	Cloning and expression of genes involved in phenyl glycine synthesis.	2002	Prof. V. Dashavantha Reddy
54.	Mr. B. Upendranath Singh	Genetic variability and selection criteria for	2002	Prof. K. Venkateswara Rao

		resistance to spotted stem borer, <i>Chilo partellus</i> (Swinhoe) in sorghum (<i>Sorghum bicolor</i> L. Moench).		
55.	Mr. Satish Hegde	Genetic and molecular basis for residual hybrid vigour in tomato.	2002	Prof. V. Dashavantha Reddy
56.	Mr. D. Harshavardhan	Establishment of Genetic Transformation protocol for production of transgenic plants in sorghum	2002	Prof. K. Ulaganathan
57.	Ms. G. Aparna	Molecular Approaches towards Fusarium resistance in Sorghum	2001	Prof. K. Ulaganathan
58.	Ms. Shalini Kumar	Genetic and molecular basis of water stress tolerance in Rice.	2000	Prof. V. Dashavantha Reddy
59.	Mr. Varma Balwant Kumar	Construction and expression of a synthetic gene encoding Antigen for Hepatitis B virus.	2000	Prof. V. Dashavantha Reddy
60.	Mr. Sumeet G C Babu	Isolation and characterization of serine and proline rich protein encoding gene from <i>Porteresiacoarctata</i> T.	2000	Prof. V. Dashavantha Reddy
61.	Mr. V. Sravan Kumar	Isolation and characterization of chitinase and its encoding gene from <i>Arachishypogaea</i> L.	1999	Prof. V. Dashavantha Reddy
62.	Ms. Modhumita Ghosh	Identification and isolation of antifungal proteins and cloning a gene coding for them in Sorghum	1999	Prof. K. Ulaganathan
63.	Ms. V. L. Sailaja	Electroporation mediated gene transfer in Rice (<i>Oryza sativa</i> L.) and isolation of Tonoplast intrinsic protein gene (TIP) from <i>Porteresiacoarctata</i> T.	1997	Prof. V. Dashavantha Reddy

64.	Ms. SuchetaTripathy	Development of efficient plant regeneration system and Agrobacterium mediated transformation in Indian cotton cultivars	1997	Prof. G. Madhava Reddy
65.	Mr. T. Ajay Kumar	Molecular and physiological basis of in vitro flowering in groundnut (Arachishypogaea L.)	1997	Prof. G. Madhava Reddy
66.	Mr. E. Chandra Kanth	Construction of gene libraries and isolation of fatty acid desaturase gene in groundnut (Arachishypogaea L.)	1997	Prof. G. Madhava Reddy
67.	Ms. G. VijayaLaxmi	Studies on plant regeneration from anther and protoplast cultures of indica rice	1996	Prof. G. Madhava Reddy
68.	Ms. V.V.Subhadra	Genetic basis of callusing and plant regeneration from anthers of indica rice	1996	Prof. G. Madhava Reddy
69.	Ms. S.K. Anitha	Efficient plant regeneration from protoplast and anther cultures of salt tolerant indicarics	1996	Prof. G. Madhava Reddy
70.	Mr. K. KranthiJeevan Reddy	Genetic analysis and evaluation of salt tolerance in rice	1995	Prof. G. Madhava Reddy
71.	Ms. A. Sabitha Rani	In vitro selection for Cercosporaarachidiola resistance in different genotypes of groundnut (Arachishypogaea L.)	1995	Prof. G. Madhava Reddy
72.	Mr. P. Balakrishna	Genetic, Physiological and Molecular basis of salt tolerance in Oryzasatival.L and porteresiacoarctatateoka	1995	Prof. G. Madhava Reddy

73.	Ms. T. Usha Rani	Genotypic differences, media, hormones, carbohydrates and amino acids in induction of somatic embryogenesis	1994	Prof. G. Madhava Reddy
74.	Mr. L. Ramdev Reddy	Genotypic differences, direct somatic embryogenesis, plant regeneration and certain biochemical studies in groundnut (<i>Arachis hypogaea</i> L.)	1994	Prof. G. Madhava Reddy
75.	Ms. A K. SudhaVani	In vitro and in vivo selection for Ascochyta blight resistance in Chickpea (<i>Cicer arietinum</i> L.)	1993	Prof. V. Dashavantha Reddy
76.	Ms. K. Uma Rani	Genetic and molecular basis of water stress tolerance in rice	1993	Prof. G. Madhava Reddy
77.	Ms. C.V. Anita	Genotypic and molecular basis of salt tolerance in <i>P. coarctata</i> and <i>O. sativa</i> L	1993	Prof. G. Madhava Reddy
78.	Ms. NibetaLenka	Genotypic basis and role of hormones and media in callusing and green plant regeneration from anthers of indica rice	1992	Prof. G. Madhava Reddy