FACULTY PROFILE

NAME : **Dr. M. THIPPESWAMY**

Designation : Assistant Professor
Department : Botany
Qualification : M.Sc., Ph.D
Areas of Specialization : Plant Molecular Biology
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Vision

My ideal career path is to work in a university where both teaching and research are two separable components of higher education. I enjoy creating knowledge via continuous investigation in my research areas, but I also value passing knowledge on to others because it teaches, inspires and leads to personal and social growth.

Educational Qualifications

Sl. No.	Degree	Specialization/ Subjects	University	Year of Award/ Passing
1	**Ph.D**	Plant Molecular Biology	Sri Krishnadevaraya University Guide: Prof. ChintaSudhakar	2007
2	**M. Sc**	Botany (Environmental Plant Physiology)	Sri Krishnadevaraya University	2001
3	**B. Sc**	Chemistry, Botany and Zoology	Bangalore University	1999

Professional Details (Academic/Research Experience)

Sl. No.	Designation	Institution/University	UG/PG	From	To
1	DBT-Postdoctoral Fellow	Indian Institute of Science (IISc) , Bangalore		Aug 2007	Nov 2007
2	BSF-Postdoctoral Fellow	Agricultural Research Organization (ARO), Tel Aviv, Israel		Dec 2007	Dec 2008
3	UGC-Dr. D. S. Kothari Postdoctoral Fellow	Indian Institute of Science (IISc) , Bangalore		Jul 2009	Jun 2012

4	UGC-Dr. D. S. Kothari Postdoctoral Fellow	Indian Institute of Science (IISc) , Bangalore		Jul 2012	Jul 2015
5	ICAR-IIHR-NICRA-Research Associate	Indian Institute of Horticultural Research (IIHR), Bangalore		Aug 2015	Jan 2017
6	Assistant Professor (C)	Department of Molecular Biology, Bangalore University, Bangalore	PG	Aug 2017	Jun 2018
7	Assistant Professor	MES Degree College, Bangalore	UG	Jul 2018	Jun 2019

Areas of Research Interest:	
1.	To isolate and characterize the genes that regulate the abiotic stresses and that might be good candidates for engineering crop plants for enhanced abiotic stress tolerance.
2.	Deciphering the Triacylglycerol biosynthesis, Steroid glycoalkoloids biosynthesis, Tropane alkaloid biosynthesis pathways in crop plants.
3.	To isolate and characterize the genes involved in tropane alkaloid biosynthetic pathway genes in endophytic fungus from selected aromatic plants.

Research Publications:	
a) International Journals	
1.	Geeta Biradar, R.H. Laxman, M.R. Namratha, M. Thippeswamy, K.S. Shivashankara, T.K. Roy and Sadashiva, A.T. (2019) Induction Temperature Enhances Antioxidant Enzyme Activity and Osmoprotectants in Tomato. International Journal of Current Microbiology and Applied Sciences, 8(3): 1284-1293.
2.	Thippeswamy, M., Sivakumar, M., Sudhakarbabu, O., Chandraobul Reddy, P., Veeranagamallaiah, G., Pandurangaiah, M., Ramya, M., Nareshkumar, A., Kirankumar, T., ChintaSudhakar 2013 Generation and analysis of drought stressed subtracted expressed sequence tags from safflower (*Carthamustinctorius L.*). Plant Growth Regulation, 69 (1). pp. 29-41. Impact Factor 2.31 Citations: 10
3.	Ginzberg, I., Thippeswamy, M., Fogelman, E., Demirel, U., Mweetwa, A., Tokuhisa, J., Veilleux, R. 2012. Induction of potato steroidal glycoalkaloid biosynthetic pathway by overexpression of cDNA encoding primary metabolism HMG-CoA reductase and squalene synthase. Planta235:1341-1353. Impact Factor 3.8, Citations: 34
4.	Ranganayakulu, G.S, Reddy, P.C, Thippeswamy, M, Veeranagamallaiah, G, ChintaSudhakar. 2012. Identification of drought stress responsive genes from drought tolerant groundnut cultivar through analysis of subtracted expressed sequence tags. ActaPhysiologiaPlantarum 34:361–377. Impact Factor 1.7, Citations: 10
5.	Thippeswamy, M, Reddy, P.C., Sinilal, B., Siva Kumar, M., and ChintaSudhakar. 2010. Proline accumulation and the expression of Δ^1-pyrroline-5-carboxylate synthetase gene in two safflower cultivars. BiologiaPlantarum 54:386-390. Impact Factor 2.1, Citations: 22

6.	Ginzberg, I., Barel, G., Ophir, R., Tzin, E., Tanami, Z., Thippeswamy, M., Jong, W., Fogelman, E. 2009 Transcriptomic profiling of heat-stress response in potato periderm. Journal of Experimental Botany, 60 (15): 4411–4421. Impact Factor 5.9, Citations: 71
7.	Veeranagamallaiah, G., Ranganayakulu, G. S., Thippeswamy, M., Sivakumar, M., Eswaranarayana Reddy, K., Pandurangaiah, M., Sridevi, V and ChintaSudhakar. 2009 Aldose reductase expression contributes in sorbitol accumulation and 4-hydroxynon-2-enal detoxification in two foxtail millet (*Setariaitalica L.*) with different salt stress tolerance. Plant Growth Regulation. 59:137–143. Impact Factor 2.31, Citations: 9
8.	JyothsnaKumari, G., Thippeswamy, M., Veeranagamallaiah, G and ChintaSudhakar 2009 Differential expression of LEA proteins in two high yielding genotypes of mulberry (*Morus alba L.*) under salinity. Biologiaplantarum 53 (1): 145-150. Impact Factor 1.7, Citations: 10
9.	Veeranagamallaiah, G. JyothsnaKumari, G. Thippeswamy, M. Reddy, P.C. Kumar, S.G. Ranganayakulu,G. Madhurekha, Ch. Rajashekar, B and ChintaSudhakar 2008 Proteomic analysis of salt stress responses in foxtail millet seedlings. Plant Science 175: 631–641. Impact Factor 3.6, Citations: 77
10.	Chandra obul Reddy, Ranganayakulu, G., Thippeswamy, M., Reddy, P. S. Reddy, M. K. and ChintaSudhakar. 2008. Identification of stress induced genes from the drought tolerant semi-arid legume crop horsegram (*Macrotylomauniflorum*(Lam.) Verdc.) through analysis of subtracted expressed sequence tags. Plant Science, 175: 372–384. Impact Factor 3.6, Citations: 56
b) National Journals	
1.	Geeta Biradar, R.H. Laxman, M.R. Namratha, M. Thippeswamy, Bhat.R.M and Sadashiva, A.T. (2019) Evaluation of Solanum lycopersicum L. genotypes for high temperature stress tolerance employing temperature induction response technique. Indian Journal of Experimental Botany. 57: 680-689.
2.	Raja Sreelatha, V., Thippeswamy, Mand T. Pullaiah. (2015) In vitro shoot multiplication of medicinally important *Carallumastalagmifera* Fischer, International Journal of Science & Research, 4(3): 63-67.
3.	Raja Sreelatha, V., Thippeswamy, M and T. Pullaiah (2015) In vitro callus induction and plant regeneration from inter nodal explants of *Carallumastalagmifera* Fischer, International Journal of Advanced Research, 3(2): 472-480.
4.	JyothsnaKumari, G., Giridara Kumar, S., Thippeswamy, M.,Annapurnadevi, A., ThimmaNaik, S and ChintaSudhakar.2007 Effect of salinity on growth and proteomic changes in two cultivars of mulberry (MorusalbaL.) with contrasting salt tolerance, Indian Journal of Biotechnology, 6:508-518. Impact Factor 0.6, Citations: 5
c) Nucleotide sequences submitted to NCBI Total=1980 sequences http://www.ncbi.nlm.nih.gov/nucest?term=Thippeswamy	
1.	Thippeswamy, M.,Sivakumar,M., Eswaranarayana Reddy, K., Pandurangaiah, M., Annapurnadevi, A., Sudhakar, C (2010) Molecular cloning and characterization of differentially expressed genes from safflower ACC# GW584151 to GW584416 database EST division of GenBank (http://www.ncbi.nlm.nih.gov/dbEST). 265 sequences.
2.	Thippeswamy, M.,Chandra Obul Reddy, P., Annapurnadevi, A and ChintaSudhakar(2007) Molecular cloning and characterization of differentially expressed genes from safflower ACC# EL611808 to EL611938 database EST division of GenBank (http://www.ncbi.nlm.nih.gov/dbEST). 130 sequences.

3.	Sivakumar, M., Thippeswamy, M.,Chandraobul Reddy, P., Eswaranarayana Reddy, K., Pandurangaiah, M.,Annapurnadevi, A., Sudhakar, C(2009) Molecular cloning and characterization of differentially expressed genes from safflower ACC# GT157697 to GT155276database EST division of GenBank (http://www.ncbi.nlm.nih.gov/dbEST). 275 sequences.
4.	Sri Ranganayakulu, G., Chandra Obul Reddy, P., Thippeswamy, M., Prakash,V., Reddy, M.K., Udayakumar, M., Sudhakar, C (2006) Molecular cloning and characterization of differentially expressed genes from a semi-arid pulse crop, groundnut. ACC# EC590006 to EC590136database EST division of GenBank (http://www.ncbi.nlm.nih.gov/dbEST). 131 sequences.
5.	Chandra Obul Reddy, P.,Ranganayakulu, G., Thippeswamy, M., Udayakumar, M., Reddy, M. K and Sudhakar, C (2005) Molecular cloning and characterization of differentially expressed genes from a semi-arid pulse crop, horsegram under drought stress. ACC# DR988679 to DR989637database EST division of GenBank (http://www.ncbi.nlm.nih.gov/dbEST). 959 sequences.
6.	Chandra ObulReddy, P., Ranganayakulu, G., Thippeswamy, M., Udayakumar, M., Reddy,M.K. and Sudhakar, C (2005) Molecular cloning and characterization of differentially expressed genes from a semi-arid pulse crop, groundnut under drought stress. ACC# DT044264 to DT044476 database EST division of GenBank (http://www.ncbi.nlm.nih.gov/dbEST). 200 sequences.
7.	Ginzberg,I., Thippeswamy,M., Fogelman,E., Demirel,U., Mweetwa,A.M., Tokuhisa,J and Veilleux,R.E (2012) and (2016) Induction of potato steroidal glycoalkaloid biosynthetic pathway genes Planta 235 (6), 1341-1353 ACC# JF802610 to JF802615 and NM_001288155database Nucleotide division of GenBank (https://www.ncbi.nlm.nih.gov/nuccore/JF802610.1). 7 sequences.
8.	Raja Sreelatha, V., Padmini, P.P.C., Thippeswamy, M. and Jayabaskaran, C (2018) Isolation and identification of TIA biosynthetic pathways genes of endophytic fungi form Catharanthusroseus ACC# MG991245 to MG991255database Nucleotide division of GenBank(https://www.ncbi.nlm.nih.gov/nuccore/MG991256). 12 sequences.
c) International Conference	
1.	International symposium on frontiers in genetics and biotechnology- Retrospect and Prospect (January 8-10, 2006) Osmania University, Hyderabad, India
2.	Agri Biotech, First International conference on Biotechnology for sustainable Agriculture & Agro Industry (9-11, March 2006) Hyderabad, India
3.	The 17th Triennial Conference of the European Association for Potato Research (EAPR)(6-10 July 2008) Brasov, Romania
4.	The 3rd International Symposium on Human Health Effects of Fruit and Vegetables FAV HEALTH 2009 (October 18-21, 2009) Avignon, France
5.	International Conference on Agricultural Sciences and Food Technologies for Sustainable Productivity and Nutritional Security 25-27 August 2016 University of Agricultural Sciences, Bangalore
6.	International Conference on Medicinal Plants and Drug Discovery (MPDD2018)18-20 July 2018 Vivanta Taj MG Road, Bangalore
7.	80th Annual Meeting of the Society of Biological Chemists (India) “Metabolic Pathway Modulations - Applications in Health and Agriculture”, 12-15 November, 2011, CIMAP. Lucknow.

d) National Conference	
1.	National Symposium on Biotechnology trends and Perspectives (February 17-18, 2006) Sri Krishnadevaraya University, Anantapur, India
2.	National Seminar on Recent Trends in Plant Sciences (1-2 March, 2007) AcharyaNagarjunaUniversity, Nagarjuna Nagar, India
3.	Frontiers in Modern Biology – 2013 Department of Biochemistry, Indian Institute of Science, Bengaluru,15-16 June 2013

Conference/ Workshops/Trainings attended/organized:

International/National Conferences:

1. Participated in Three day Faculty orientation programme for student induction training of trainers (ToT) organized by University Grants Commission from 31st May to 1st June 2019 at Indian Institute of Science, Bangalore, India
2. Participated in 40th International Society for Medical Publication Professionals conference and national symposium (24th – 26th Septmber 2019) Karnatak University, Darwad, India

Training Programme :

1. Participated in 14 day training programme of "Physiological and molecular aspects of improving crop adaptation to drought" held at Department of Crop Physiology, University of Agricultural Sciences, GKVK Campus, Bangalore – 560065 from 27th Feb 2017 to 11th Mar 2017.
2. Participated in 21 day training program on "University and PG College M.Sc. Teachers' Training Program in Biology / Life Science" held at Center of Excellence in Science and Mathematics Education, Indian Institute of Science, Challakere Campus, Chitradurga-577536 Under Pandit Madan Mohan Malaviya National Mission on Teachers and Training (PMMMNMTT), MHRD, Govt. of India from 7th June 2018 to 27th June 2018
3. Participated in14 day Science Academies\' INSA sponsored refresher course on "An insight in to microbiology and molecular biology" held at Department of Microbiology, Jain University, Jayanagar, Bangalore-11 from 2nd Jan 2019 to 15th Jan 2019

Achievements/Awards / Abroad visit / Professional Membership	
1.	Visited Ministry of Agriculture, Tel Aviv, Israel for the Postdoctoral Fellowship training from Dec 2007 to Dec 2008
2.	Worked as a Indian Academy of Sciences Summer Research Fellow-2019-20 at Department of Biochemistry, Indian Institute of Science, Bangalore
3.	M. Sc., Botany IIIrd Rank at Sri Krishnadevaraya University
4.	Life member of Society of Biological Chemists (India)

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<tr><td colspan="3">Personal Details</td></tr>
<tr><td>Gender</td><td colspan="2">Male</td></tr>
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