

## **Dr. K. Vasanth**

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### **EDUCATION**

- ❖ Ph.D. Botany (2005) – Bharathidasan University, Trichirapalli, Tamil Nadu, India.
- ❖ M.Sc. Botany (1999) – Bharathidasan University, Trichirapalli, Tamil Nadu, India.
- ❖ B.Sc. Botany (1995) – Madras University, Tamil Nadu, India

### **PROFESSIONAL EXPERIENCE**

- ❖ Associate Professor, Bharathiar University, India, Since, Mar 2021.
- ❖ Assistant Professor, Bharathiar University, India, Since, Feb. 2011.
- ❖ Postdoctoral Researcher, National Yang-Ming University, Taipei, Taiwan, May 2009- Feb. 2011.
- ❖ Faculty member/Researcher, Institute for Wine Biotechnology, Stellenbosch University, South Africa, April, 2008-March, 2009.
- ❖ Postdoctoral Researcher, Institute for Wine Biotechnology, Stellenbosch University, South Africa, April, 2005-March, 2008.

### **INTERNATIONAL/NATIONAL FELLOWSHIPS/AWARD:**

- ❖ Winetech Fellowship, South Africa.
- ❖ NRF, THRIP Postdoctoral Fellowship, South Africa.
- ❖ NRF, Postdoctoral Fellowship, Taiwan.

### **CURRENT RESEARCH INTEREST**

- ❖ Animal and Plant Culture,
- ❖ Cancer Biology,
- ❖ Molecular Biology, Pharmacology

### **TOTAL NO. OF. CITATIONS**

- ❖ Citations - 554
- ❖ h-index – 12
- ❖ i10- index - 14

## RESEARCH PROJECTS

Name & Designation of the Faculty Member	Title of the Project	Funding Agency	Total grant in rupees	Duration
Dr. K. Vasanth Associate Professor	Medicinal plants: their role in human health and drug discovery for cancer.	RUSA	6,10,000/-	2020-2022
	<i>In vitro</i> propagation and anti- cancer investigation of <i>Gloriosa superba</i> L. - “Lab to Land”; A conservative approach.	RUSA	5,00,000/-	2019-2020
	“Development of protocols for genetic transformation of the legume <i>Macrotyloma uniflorum</i> (Lam.) Verdc. And cryopreservation of it somatic embryos”	DST-SERB	24,50,000/-	2015-2018
	“Cryopreservation of long term storage endangered plant species”	TNSCST	4,20,000/-	2014-2016

## RESEARCH PAPERS PUBLISHED

### 2023

- Vignesh A., Amal TC., Selvakumar S & **Vasanth K** (2023). Conservation linkages of endangered medicinal plant and exploration of phytochemicals, pharmaceutical screening and *in silico* validation of *in vivo*-wild and *in vitro*-regenerated plant *Boucerosia diffusa* Wight. 3 Biotech. **IF: 2.893**
- Raja K., Vignesh A., Lavanya P., Ravi M., Selvakumar S & **Vasanth K** (2023). A New organosulfur compound identified from *Striga angustifolia* (D. Don) C.J. Saldanha inhibits lung cancer growth and induces apoptosis via p53/mTOR signaling pathway. Applied Biochemistry and Biotechnology 5, 1-21. **IF: 3.094**
- Motwani, D., Vignesh, A., Raja, K., Selvakumar, S., & **Vasanth, K.** (2023). Exploration of phytochemicals and probing potential effects of *Priva cordifolia* active extract on PACAP 38 and its nociceptor in the human trigeminovascular system. 3 Biotech, 13(2), 1-14. **IF: 2.893**
- Janani, K., Vignesh, A., Veerakumari, K. P., **Vasanth, K.**, & Rakkiyappan, R. (2023). Identifying native endemic plant species in Nilgiris using the interval type 2 q-rung orthopair fuzzy Bonferroni mean operator. *Computational and Applied Mathematics*, 42(1), 55. **IF: 2.998**
- Karthika, P., Balamurugan, V., Dhandapani, G & Vasanth K (2023). Embryo and Ovary Culture of Important Legume Horse Gram, *Macrotyloma uniflorum* (Lam.) Verdc. **Asian Journal of Crop Science**, 15 (1): 8-15.
- Ponnusamy, V., Subramanian, G., Muthuswamy, K., Shanmugamprema, D., Vasanthakumar, K., **Krishnan, V.**, & Subramaniam, S. (2022). Tongue papillae density and fat taster status-a

cardinal role on sweet and bitter taste perception among Indian population. *Food Research International*, 112294. **IF: 7.425**

## 2022

- Shanmugamprema, D., Muthuswamy, K., Ponnusamy, V., Subramanian, G., Velusamy, T., **Krishnan, V.**, & Subramaniam, S. (2022). CD36 and GPR120 mediated orogustatory perception of dietary lipids and its physiological implication in the pygmy mouse *Mus booduga*. *Journal of Animal Physiology and Animal Nutrition*, 106(6), 1408-1419. **IF: 2.718**
- Ponnusamy, V., Subramanian, G., Muthuswamy, K., Shanmugamprema, D., **Krishnan, V.**, Velusamy, T., & Subramaniam, S. (2022). Genetic variation in sweet taste receptors and a mechanistic perspective on sweet and fat taste sensation in the context of obesity. *Obesity Reviews*, e13512. **IF: 10.867**
- Vignesh, A., Sivalingam, R., & **Vasanth, K.** (2022). Diversity of Woody Flora and Physico-chemical Attributes of Soil in the Nilgiri Hills, Tamil Nadu, India. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*, 92(1), 95-103. **IF: 1.750**
- Balamurugan, V., Sridhivya, M., Dharani, R., Selvakumar, S., & **Vasanth, K.** (2022). Phytochemical Screening, Antioxidant, Antidiabetic and Anticancer Activities of *Elaeocarpus variabilis* Fruit. *Turkish Journal of Agriculture-Food Science and Technology*, 10(8), 1352-1362.
- **Krishnan, V.**, Subramaniam, S., Chia-Chuan, C., Venkatachalam, B., Thomas Cheeran, A., & Chi-Ying F, H. (2022). Anticancer Activity of *Leonurus sibiricus* L.: Possible Involvement of Intrinsic Apoptotic Pathway. *Nutrition and Cancer*, 74(1), 225-236. **IF: 2.816**
- Raja, K., Balamurugan, V., Selvakumar, S., & **Vasanth, K.** (2022). *Striga angustifolia* mediated synthesis of silver nanoparticles: Anti-microbial, antioxidant and anti-proliferative activity in apoptotic p53 signalling pathway. *Journal of Drug Delivery Science and Technology*, 67, 102945. **IF: 5.062**
- Janani, K., Veerakumari, K. P., **Vasanth, K.**, & Rakkiyappan, R. (2022). Complex Pythagorean fuzzy Einstein aggregation operators in selecting the best breed of Horsegram. *Expert Systems with Applications*, 187, 115990. **IF:8.665**
- Vignesh A., Sivalingam R., Selvakumar S., & **Vasanth K.** (2021). A review on ethnomedicinal and phytopharmacological potential of traditionally wild and endemic plant *Berberis tinctoria* Lesch. *Thai Journal of Pharmaceutical Sciences*. 46 (2): 137-148. **IF:0.72**
- Vignesh, A., Selvakumar, S., & **Vasanth, K.** (2022). Comparative LC-MS analysis of bioactive compounds, antioxidants and antibacterial activity from leaf and callus extracts of *Saraca asoca*. *Phytomedicine Plus*, 2(1), 100167.

## 2021

- K Janani, KP Veerakumari, **K Vasanth**, & R Rakkiyappan (2021). Complex Pythagorean fuzzy Einstein Aggregation Operators in selecting the best breed of Horsegram, *Expert Systems with Applications*, 115990. **IF:8.665**
- M Prasathkumar, K Raja, **K Vasanth**, A Khusro, & S Sadhasivam, (2021). Phytochemical screening and in vitro antibacterial, antioxidant, anti-inflammatory, anti-diabetic, and wound

healing attributes of *Senna auriculata* (L.) Roxb. leaves, *Arabian Journal of Chemistry* 14 (9), 103345. **IF:6.212**

- Vignesh A., Selvakumar S., & **Vasanth K.** (2021). Green synthesis and characterization of zinc oxide nanoparticles using *Berberis tinctoria* Lesch. leaves and fruits extract of multi-biological applications. *Nanomedicine Research Journal* 6(2): 1-20. **IF:1.139**
- Vignesh, A., Pradeepa Veerakumari, K., Selvakumar, S., Rakkiyappan, R., & **Vasanth, K.** (2021). Nutritional assessment, antioxidant, anti-inflammatory and antidiabetic potential of traditionally used wild plant, *Berberis tinctoria* Lesch. *Trends in Phytochemical Research*, 5(2), 71-92.
- Balamurugan V, Karthika P, Dhandapani G, Pradeepa Veerakumari K, & **Vasanth K** (2021), Plant regeneration from direct organogenesis of *Pandanus canaranus* Warb. an endemic medicinal plant. *Vegetos*, 34(2), 404-412.
- Raja K., Selvakumar S., Rakkiyappan R., Pradeepa Veerakumari K. & **Vasanth K.** (2021). Anti-proliferative phytoconstituents from *Striga angustifolia* (D. Don) C.J. Saldanha – An *in vitro* and *in silico* approach, *Phytomedicine Plus*, 2021, 100062.
- Karthi, M., Deepankumar, S., Vinithra, P., Gowtham, S., **Vasanth, K.**, Raj, P. P., & Selvakumar, S. (2021). Single nucleotide polymorphism in CD36: Correlation to peptide YY levels in obese and non-obese adults. *Clinical Nutrition*, 40(5), 2707-2715. **IF: 7.643**
- Subramanian, G., Shanmugamprema, D., Subramani, R., Muthuswamy, K., Ponnusamy, V., Tankay, K., Velusamy, T., & **Krishnan, V.** (2021). Anti-Obesity Effect of *T. Chebula* Fruit Extract on High Fat Diet Induced Obese Mice: A Possible Alternative Therapy. *Molecular Nutrition & Food Research*, 65(10), 2001224. **IF: 6.575**

## 2020

- Balamurugan V, Raja K, Selvakumar S, & **Vasanth K** (2020), Phytochemical screening, antioxidant, anti-diabetic and cytotoxic activity of leaves of *Pandanus canaranus* Warb, *Materials Today: Proceedings*.
- Amal TC, Asif TT, Pradeepa VK, Rakkiyappan R, & **Vasanth K** (2020) Morphological traits of drought tolerant Horse gram germplasm: Classification through machine learning. *Journal of the Science of Food and Agriculture*. **IF: 4.125**
- Amal TC, Karthika P, Dhandapani G, Selvakumar S, & **Vasanth K** (2020) A simple and efficient *Agrobacterium*-mediated *In-planta* transformation protocol for Horse gram (*Macrotyloma uniflorum* Lam. Verdc.). *Journal of Genetic Engineering and Biotechnology*. 18: 9. **IF: 0.605**
- Deepankumar S., Karthi M., Gowtham S., Vinithra P., **Vasanth K.**, & Selvakumar S. (2020). Fat taste signal transduction and its possible negative modulator components, *Progress in Lipid Research*, 101035 **IF:16.195**
- Amal TC, Karthika P, Balamurugan V, Shanmugam G, Selvakumar S, Sundararaj P & **Vasanth K** (2020), Effects of root-knot nematode inoculum densities on morphological and phytochemical analysis of selected horse gram germplasm. *Indian Journal of Agricultural Research*.2020. (54):708-715 **IF: 0.258**

## 2019

- Deepankumar S, Muthuswamy Karthi M, **Vasanth, K**, & Selvakumar S. (2019). Insights on modulators in perception of taste modalities –a review, *Nutrition Research Review*, **IF: 7.8**

## 2018

- Muthuswamy, K., Shanmugam Prema, D., **Krishnan, V.**, Pitchairaj, G., & Subramaniam, S. (2018). Differential intracellular localization of Hsp70 in the gill and heart tissue of fresh water prawn *Macrobrachium malcolmsonii* during thermal stress. *Molecular biology reports*, *45*, 1321-1329. **IF: 2.742**

## 2016

- Jawahar S, Nafar A, **Vasanth K**, Musthafa MS, Arockiaraj J, Balasundaram C, & Hari Krishnan R (2016). Dietary supplementation of Zeolite on growth performance, immunological role, and disease resistance in *Channa striatus* against *Aphanomyces invadans*. *Fish and Shellfish Immunology* 51: 161-169. **IF: 4.58**
- Musthafa MS, Ali ARJ, Mohamed MJ, Jaleel MMA, Arun Kumar MS, Rani KU, **Vasanth K**, Arockiaraj J, Preetham E, Balasundaram C, & Hari Krishnan R (2016). Protective efficacy of Azomite enriched diet in *Oreochromis mossambicus* against *Aeromonas hydrophila*. *Aquaculture* 451: 310-315. **IF: 5.135**

## 2013

- Lashbrooke JG, Young PR, Dockrall SJ, **Vasanth K**, & Vivier MA (2013). Functional characterisation of three members of the *Vitis vinifera* L. carotenoid cleavage dioxygenase gene family. *BMC Plant Biology* 13:156. **IF: 5.26**

## 2011

- **Vasanth K**, & Vivier MA (2011). Optimization of improved cryopreservation procedure for long term storage synchronised culture of grapevine (*Vitis vinifera* L.). *Biologia Plantarum* 55:365-369. **IF: 1.79**

## 2007

- Muthusamy AK, **Vasanth K**, Sivasankari BR, Chandrasekar, & Jayabalan N (2007). Enhanced somatic embryogenesis and plant regeneration in groundnut (*Arachis hypogaea* L.) with *in vitro* mutagenesis. *Biologia Plantarum* 51(3):430-435. **IF: 1.79**

## 2006

- **Vasanth K**, Lakshmi Prabha A, & Jayabalan N (2006). Amino acid enhancing multiple shoot induction in peanut (*Arachis hypogaea* L.). *Indian Journal of Crop Science* 1:74-79. **IF: 0.37**

## 2005

- Muthusamy AK, **Vasanth K**, & Jayabalan N (2005). Induced high yielding mutants in cotton (*Gossypium hirsutum* L.). *Mutation Breeding Newsletter and Reviews* No.1:5
- Muthusamy AK, Vasanth K, & Jayabalan N (2005). Responses of physiological and biochemical components in *Gossypium hirsutum* L. to mutagens. *Journal of Nuclear Agricultural Biology* 32(1):44-51.
- **Vasanth K**, & Jayabalan N (2005). Transformation parameters enhancing T-DNA expression in peanut (*Arachis hypogaea* L.). In: Plant Biotechnology, APH Publishers, New Delhi pp. 41-61

## 2004

- Muthusamy AK, **Vasanth. K**, & Jayabalan N (2004). Induced twining and boll abnormalities in *Gossypium hirsutum* (L). *SAARC Jn. of Agri.* 2:167-173.
- Muthusamy. A, **Vasanth. K** & N. Jayabalan (2004). *In vitro* regeneration of cotton plants from shoot tip explants: a simple and alternative method. *Plant cell Biotechnology and Molecular Biology* 5(1- 2):15-20. **IF:0.26**
- **Vasanth. K**, A. Muthusamy and A. Lakshmi Prabha & N. Jayabalan (2004). *In vitro* plant regeneration and multiple shoot induction in peanut (*Arachis hypogaea* L.). *Plant cell Biotechnology and Molecular Biology* 5(3-4):89-94. **IF: 0.26**

## 2003

- **Vasanth. K**, A. Lakshmi Prabha, M. Jeyakumar & N. Jayabalan (2003). *In vitro* seed formation in *Panicum sumatrense* Roth ex Roem. et Schult (Little millet) *Physiology and Molecular Biology of Plants* 9 (2):291-294.
- Muthusamy. A, **Vasanth. K** & N. Jayabalan (2003). Responses of physiological and biochemical contents in *Gossypium hirsutum* L. to mutagens. *Journal of Nuclear Agriculture and Biology* 32 (1): 44 -51.
- **Vasanth. K**, A. Lakshmi Prabha, M. Jayakumar, A. Muthusamy & N. Jayabalan (2003). *In vitro* plant regeneration from shoot tip explants of *Panicum sumatrense* Roth ex Roem. et Schult (Little millet). *Plant cell Biotechnology and Molecular Biology* 3 (4): 111-116.

## 2002

- **Vasanth. K** & N. Jayabalan (2002). Organogenesis in *Panicum sumatrense* Roth ex Roem. & Schult (Little Millet). *Indian Journal of Biotechnology.* 2:273-274, **IF 0.324**

## BOOK CHAPTERS PUBLISHED

### 2019

- Balamurugan, V., Amal, T. C., Karthika, P., Selvakumar, S., & **Vasanth, K.** (2019). Somatic embryogenesis and plant regeneration in *Gloriosa superba* L.: An endangered medicinal plant. *In vitro Plant Breeding towards Novel Agronomic Traits: Biotic and Abiotic Stress Tolerance*, 27-42.

### 2017

- Amal TC, Dhandapani G, & **Vasanth K** (2017). Phytochemical screening of transgenic and non-transgenic leguminous plant species. *Sustainable agriculture towards food security* ISBN 978-981-10-6646-7
- **Vasanth K**, Melané & A Vivier (2017). Somatic embryogenesis from immature anther explants: Toward the development of an efficient protocol production of grapevine. *Sustainable agriculture towards food security* ISBN 978-981-10-6646-7.

## CO-ORDINATOR

- School of Distance Education course Co-Ordinator for M.Sc., Botany, Bharathiar University, Coimbatore- 2016-2023

### REFRESHER COURSE ORGANIZED

S.No	Refresher Course	Period		Place	days
		From	To		
1.	Course Co-ordinator, Refresher course in Botany	02.06.2022	15.06.2022	UGC-Human Resource Development Centre, Bharathiar University, Coimbatore-46	14 days
2.	Course Co-ordinator, Refresher course in Life Sciences	13.02.2019	05.03.2019	UGC-Human Resource Development Centre, Bharathiar University, Coimbatore-46	21 days
3.	Additional Co-ordinator, Refresher course in Life Sciences	11.09.2012	01.10.2012	UGC - Academic Staff College, Bharathiar University, Coimbatore-46.	21 days
4.	Course Co-ordinator, Refresher course in Botany	08.03.2012	28.03.2012	UGC - Academic Staff College, Bharathiar University	21 days

### REFRESHER COURSE ATTENDED

S.No	Refresher Course	Period		Place	days
		From	To		
1.	Participant-Refresher course in Life Sciences	06.05.2015	26.05.2015	UGC - Academic Staff College, Bharathiar University, Coimbatore-46	21 days
2.	Participant-Refresher course in Life Sciences	19.11.2013	07.12.2013	UGC - Academic Staff College, Bharathiar University, Coimbatore-46.	24 days

### ORIENTATION COURSE ATTENDED

S.No	Refresher Course	Period		Place	days
		From	To		
1.	Orientation programme on NEET (UG)-2019. National Testing Agency	17.04.2019	-	Dr D Premachandrasagar Auditorium, Dayanad Sagar Inst Kumaraswamy Layout Bengaluru, Karnataka 560078	1 day

2.	Orientation programme on CBT Observers / City Coordinators for National Testing Agency	26.11.2018	-	Naipunnya Public School, Kochi - 21	1 day
3	Participant-Orientation Programme	11.05.2011	08.06.2011	UGC-Academic Staff College, Bharathiar University, Coimbatore-46	28 days

### SUMMER SHORT TERM TRAINING COURSE / WORKSHOPS ORGANISED

S.No	Training Course / Workshops	Period		Place	Days
		From	To		
1.	Sophisticated Instruments and Software	23.08.2022	26.08.2022	Department of Botany, Bharathiar University, Coimbatore-46	4 days
2.	Basic Molecular Biology Techniques	21.05.2018	29.05.2018	Department of Botany & Department of Biochemistry, Bharathiar University, Coimbatore-46	8 days
3.	Plant Conservation Biotechnology	09.03.2017	17.03.2017	Department of Botany, Bharathiar University, Coimbatore-46	8 days
4.	Summer Short Term Training course on "Plant Tissue Culture and Transformation Technology"	17.06.2016	22.06.2016	Department of Botany, Bharathiar University, Coimbatore-46	5 days

### CONFERENCES ORGANIZED

S.No	Courses /Conference	Period		Place	days
		From	To		
1.	Organized National Conference on "Basic and Applied Biological Sciences"	10.10.2018	11.10.2018	Department of Botany & Department of Biochemistry, Bharathiar University, Coimbatore-46	2 days
2.	Organized National Seminar on "Biodiversity Conservation and Sustainable Utilization"	20.03.2017	21.03.2017	Department of Botany, Bharathiar University, Coimbatore-46	2 days

### WORKSHOP ATTENDED

S.No	Courses /Conference	Period		Place	days
		From	To		
1.	Searching and Drafting of Patent Specifications	07.01.2022	-	IPR Bharathiar University, Coimbatore	1 day
2.	Intellectual Property Rights	03-03-2016	04-03-2016	Department of Botany, Bharathiar University, Coimbatore	2 days
3.	Non-Radioactive Method of Gene Detection in Microbes/ GM Crops	16-02-2015	21-02-2015.	ICAR-National Research Centre on Plant Biotechnology, PUSA Campus, New Delhi-110012	6 days



4.	Electrophoretic Techniques and Enzyme Technology	08-09-2012.	-	Centre for Advanced Studies in Botany, University of Madras	1 day
5.	Positive Attitude and Constructive thinking	30-07-2012	01-08-2012	Bharathiar University, Coimbatore	3 days
6.	Quality Management	19-09-2011	21-09-2011	Defense Institute of Quality Assurance, Bangalore	3 days
7.	National workshop on Intellectual Property Rights	11-08-2011	12-08-2011	Department of Botany, Bharathiar University and DRDO, Govt. of India	2 days
8.	Plant Genetic Engineering	18-06-2001	09-07-2001	School of Biotechnology, Madurai Kamaraj University	21 days

### PAPERS PRESENTED IN INTERNATIONAL CONFERENCES

- A. Vignesh and **K. Vasanth**. Green Synthesis of Zinc Oxide Nanoparticles from Leaves and Fruits Extract of *Berberis tinctoria* Lesch.: Anti-bacterial, Anti-biofilm, Antioxidants and Anticancer Studies. International Conference on Frontiers in Sustainable Agriculture and Biological Sciences (FSABS-2020), Department of Botany, Periyar University, Salem.16-03-2020- 17-03-2020.
- V. Balamurugan, K. Raja and K. Vasanth. Evaluation of Nutraceutical and Phytochemical analysis in *Pandanus tectorius* in Fruits. International Conference on Frontiers in Sustainable Agriculture and Biological Sciences (FSABS-2020), Department of Botany, Periyar University, Salem.16-03-2020- 17-03-2020.
- K. Raja, V. Balamurugan and **K. Vasanth**. Synthesis of Silver Nanoparticles Using *Striga angustifolia*. Targeting Anti-microbial, Antioxidants, and Anti-proliferative Activity. International Conference on Frontiers in Sustainable Agriculture and Biological Sciences (FSABS-2020), Department of Botany, Periyar University, Salem.16-03-2020- 17-03-2020.
- P. Karthika. Organogenesis from cotyledonary explants of *Macrotyloma uniflorum* Lam Verdc. International conference on innovative and Emerging Trends in Botany. Alagappa University, Karaikudi. 06-11-2019 to 07-11-2019.
- V. Balamurugan and K. Vasanth. *In vitro* antioxidant and antidiabetic activity of *Pandanus canaranus* L. "International Conference on Environment, Genes, Health and Diseases", Bharathiar University, Coimbatore. 22-08-2017 to 24-08-2017.
- A. Vignesh and K. Vasanth. Phytomedicine, Anticancer activity of Endemic Plant of *Berberis tinctoria* Lesch. "International Conference on Environment, Genes, Health and Diseases", Bharathiar University, Coimbatore. 22-08-2017 to 24-08-2017.
- Amal.T.Cheeran, S. Sivasankari, P. Karthika, K. Vasanth. *In vitro* plant regeneration and phytochemical screening of *Macrotyloma uniflorum* (Lam.) Verdc. "International Conference on Environment, Genes, Health and Diseases", Bharathiar University, Coimbatore. 22-08-2017 to 24-08-2017

- A. Vignesh, R. Dhileepan, S. Revathy, V. Balamurugan, Amal.T.Cheeranand K. Vasanth. Phytochemical, Antioxidant and Antibacterial activity of Rare and Endemic Plant Species of Western Ghats. "2<sup>nd</sup> International Conference on Environment and Ecology", Bharathiar University, Coimbatore. 07-03-2016 to 09 03-2016.
- K. Vasanth and MA Vivier. International conference on "Genomics and Proteomics" (ICGP-2011) organized by Molecular characterization of genetically modified plants National Institute of Technology, School of Biotechnology, Calicut. Best Presentation Award. 14-07-2011 to 16-07-2011.
- M. Linga Devi and K. Vasanth. Factors influencing *Agrobacterium* mediated genetic transformation of *Arachis hypogaea* L. A non-tissue culture method approach, National Conference on Genomics, organized by Periyar University, Salem. Best presentation award, 2011.
- K. Vasanth. BIT 2010: The 8<sup>th</sup> Annual Symposium of Bioinformatics and Systems Biology, organized by National Yang Ming University. No. 155, Sec. 2, Linong St., Beitou District, Taipei City 112, Taiwan.
- A. Lakshmiprabha, N. Jayabalan and K. Vasanth. A comparative study on structure and chemical nature of leaf induced callus in *Aristolochia bracteolate* and *Aristolochia indica* organized by WCSET, Singapore. 26-08-2009 to 29-08- 2009.
- Stander, K. Vasanth, MB. Korkie and MA. Vivier. *In vitro* culture systems to study and genetically improve grapevine (*Vitis vinifera*) cultivars, organized by SASM 09/ BIO-2-BIZ, International Convention Centre, Durban. 20-09-2009 to 23-09- 2009.
- Vasanth and MA. Vivier. Efficient transformation and regeneration of table and wine grape cultivars with anther derived embryogenic suspension cultures, "4<sup>th</sup> International symposium on Acclimatization and Establishment of Micropropagated Plants", organized by International Society for Horticulture Science (ISHS) Bangalore, Karnataka, India. 08-12-2008 to 12-12-2008.
- JG. Lashbrooke, PR. Young, A. Tredoux, K. Vasanth and MA. Vivier. Functional analysis of grapevine carotenoid cleavage dioxygenase (VvCCD1) using over expression and silencing strategies, "8<sup>th</sup> International Symposium on Grapevine Physiology and Biotechnology", Australia. 23-11-2008 to 28-11-2008.
- K. Vasanth, Tania Lerm and MA. Vivier. Cryopreservation and *Agrobacterium*-mediated transformation of suspension cultures of grapevine (*Vitis vinifera* L.) International Biotechnology Conference, organized by VIT, India. 06-02-2008 to 08-02-2008.
- K. Vasanth, T. Lerm and MA. Vivier. Evaluation and optimization of embryogenic cell lines of grapevine (*Vitis vinifera* L.) organized by SASEV, Capetown, South Africa.
- K. Vasanth, A. Muthusamy, A. Lakshmi Prabha and N. Jayabalan. Amino acids enhanced plant regeneration from cotyledon and embryonal axis of peanut (*Arachis hypogaea* L.). "4<sup>th</sup> International Food Legume Research Conference", organized by Indian Agricultural Research Institute, New Delhi. 18-10-2005 to 22-10-2005.
- A. Muthusamy, K. Vasanth and N. Jayabalan. International Cotton Genome Initiative ICGI-2004, Book Abstracts October 10-13, Hyderabad, Andhra Pradesh, India. 10- 10-2004 to 13-10-2004.

- Vasanth. International seminar on “Challenges and applications in Biotechnology”, organized by Department of Biotechnology, Thanthai Hans Roever College, Perambalur. 04-03-2004 to 06-03-2004.

### PAPERS PRESENTED IN NATIONAL CONFERENCES

- K. Vasanth. National Conference on Phytomedicine (NCPM 2023), Department of Botany, Bharathiar University, Coimbatore. 05.01.2023- 06.01.2023
- E. Keerthi, A. Vignesh and **K. Vasanth**. Conservation linkages of endangered medicinal plant and exploration of phytochemicals, pharmaceutical screening and *in silico* validation of *in vivo*-wild and *in vitro*-regenerated plant *Caralluma diffusa* (Wight) N. E. Br. National Conference on Phytomedicine (NCPM 2023), Department of Botany, Bharathiar University, Coimbatore. 05.01.2023- 06.01.2023.
- S. Janani Sree, A. Vignesh and **K. Vasanth**. *In vitro* plant regeneration of *Parochetus communis* Buch. - Ham.ex.D.Don. National Conference on Phytomedicine (NCPM 2023), Department of Botany, Bharathiar University, Coimbatore. 05.01.2023- 06.01.2023.
- M. Vishnupriya and **K. Vasanth**. Evaluation of phytochemical screening, antioxidant and anticancer potential in callus extract of *Gloriosa superba* L. National Conference on Phytomedicine (NCPM 2023), Department of Botany, Bharathiar University, Coimbatore. 05.01.2023- 06.01.2023
- K. Vasanth. National Conference on “Biodiversity and its Conservation: Priorities and Challenges”, Bharathiar University, Coimbatore.12-03-2018to 13-03-2018.
- V. Balamurugan and K. Vasanth. Evaluation of anti-oxidant and anti-diabetic activities of *Pandanus canaranus* L. Periyar University, Salem, (III<sup>rd</sup> Prize for Poster presentation). 01-02- 2018 to 02-02-2018.
- P. Karthika, V. Balamurugan, Amal.T.Cheeran, A. Vignesh, K. Raja and K. Vasanth. Phytochemical Screening and Antioxidant activity of *Speranthis indicus* L, Periyar University, Salem. 01- 02- 2018 to 02.02.2018.
- K. Vasanth. Chaired the session Plant Tissue Culture, “Recent Trends in Bioprospecting of Plants”, Bharathidasan University, Tiruchirappalli. 28- 03- 2014 to 29- 03- 2014.
- Amal.T.Cheeran and K. Vasanth. *Agrobacterium*-mediated genetic transformation of Horse gram *Macrotyloma uniflorum* (Lam.) Verdc. The Journal of the Swamy Botanical club, “Recent Trends in Bio Prospecting of Plants”, Bharathidasan University, Trichirappalii. 28- 03- 2014 to 29- 03- 2014.
- Vasanth K and MA Vivier. Efficient genetic transformation of table and wine grape cultivars with anther-derived embryogenic suspension cultures (*Vitis Vinifera* L.), National symposium Tree biotechnology, Institute of Forest Genetics & Tree Breeding Coimbatore. 2013.
- Amal.T.Cheeran, Pradeepa Veerakumar K, S.Azarddin and Vasanth.K. Sonication and vacuum infiltration method of *Agrobacterium*–mediated transformation *Macrotyloma uniflorum*(Lam.) Verdc.) National symposium Tree biotechnology, Institute of Forest Genetics & Tree Breeding Coimbatore-2013.

- Amal.T.Cheeran, M. Kasipandi and K. Vasanth. *Agroinfiltration* mediated genetic transformation in Horse gram (*Macrotyloma uniflorum*), National conference on “Recent Trends in Plant Biotechnology”, organized by Department of Plant Science, School of Life Science, Bharathidasan University, Tiruchirapalli.- Best Presentation Award. (2013).
- Rukshana Begam and K. Vasanth. “Genetic transformation of *Vigna mungo* L. Hepper-employing *Agroinfiltration* method”, National conference on “Recent Trends in Plant Biotechnology”, organized by Department of Plant Science, School of Life Science, Bharathidasan University, Tiruchirapalli, 2013.
- R. Vasudevan and K. Vasanth. Factors influencing transient expression of *Agroinfiltration* method for genetic transformation in *Vigna unguiculata*, National conference on “Recent Trends in Plant Biotechnology”, organized by Department of Plant Science, School of Life Science, Bharathidasan University, Tiruchirapalli. 2013.
- K. Vasanth and N. Jayabalan. National level seminar on “Special lectures in Bioscience”, organized by Department of Biotechnology and Bioinformatics, Bharathidasan University, Trichirappalli. 31- 03- 2004 to 01- 04- 2004.
- K. Vasanth and N. Jayabalan. National level seminar on “Recent trends in Plant Biotechnology”, organized by Bharthidasan University, Trichirappalli.22-03-2004 to 23-03-2004.
- K. Vasanth. “Current concepts in Biological Research”, organized by National Facility for Marine cyanobacteria, Department of Microbiology, Bharathidasan University, Trichirappalli. 27-02-2004 to 28-02-2004.
- K. Vasanth. “Intellectual Property Rights-Present Necessities and Responsibilities, National Facility for Marine Cyanobacteria”, organized by Bharthidasan University, Trichirappalli. 09-12-2002.
- K. Vasanth. National conference on “Recent Trends in Plant Science Research”, organized by Mahatma Gandhi University, Koattayam. 14-11-2002 to 15-11-2002.

#### **NOBEL LAUREATE LECTURE ATTENDED**

- Prof. Frabcoise Barre-sinoussi, Physiology and Medicine, Taipei City 112, Taiwan- September.04-10-2010.
- Dr. Ahmed H. Zewail "The Nanoworld in 4D" organized by National Chinese Research Medicine, Taiwan 13-07-2010.
- Regenerative medicine from stem cells to disease models, organized by National Yang Ming University, Taipei, Taiwan. September 2010.
- Dr. James D. Watson, “From Discovery of Double Helix Structure of DNA to Developing a Research Career” organized by National Yang Ming University, No. 155, Sec. 2, Linong St., Beitou District, Taipei City 112, Taiwan, 13-03-2010.

#### **INVITED SPEAKER:**

- Delivered a lecture on “Plant Germplasm Conservation”, UGC, Bharathidasan University, Tiruchirapalli. 15-09-2021.

- Delivered a lecture on “Phytochemical as protein regulatory”, RUSA2.0, University of Madras, Chennai. 21-12-2020.
- Delivered a lecture on “Plant Germplasm Conservation”, UGC - Academic Staff College, Bharathidasan University, Tiruchirapalli. 11-12-2020.
- Delivered a lecture on “Bioexplore” entitled on “Plant tissue culture tool for genetic engineering” at L.R.G. Government College for women, Tirupur. 28-08-2020.
- Delivered a lecture on the “Germplasm Conservation of Plants” at Arulmigu Palaniandavar Arts College for Women, Palani. 07-01-2020.
- Delivered a lecture on “Agriculture towards Crop Improvement”, UGC - Academic Staff College, Bharathiar University, Coimbatore. 24- 06- 2019.
- Delivered a lecture on “Plant Transformation Technologies in the Systems Biology Era” during National Research Workshop on “Unravelling the intricacies of Bioinformatics and systems Biology for sustainable development” at Department of Studies and Research in Biotechnology, Tumkur University. 25-04-2019 to 26-04-2019.
- Delivered a lecture on “Plant Tissue Culture”, Department of Botany, Periyar University Constituent College of Arts & Science, Harur, Dharmapuri. 04-02-2019.
- Delivered a lecture on “Plant Tissue Culture and Biotechnology”, Periyar University Constituent College of Arts and Science, Harur, Dharmapuri. 19-02-2018.
- Delivered a lecture on “Perspectives of Genetic Engineering on Crops”, Department of Botany, Periyar University, Periyar palkalai Nagar, Salem.
- “Impact of Plant Tissue Culture and Transgenics”, All India Radio, Coimbatore. 16-11-2015.
- Delivered a lecture on “Recent Trends in Molecular Biology” to the students and faculty of Centre for Advanced Study in Botany, University of Madras, Chennai. 10-12-2012.
- Chief Guest delivered a lecture on “Drug discovery and Medicinal plants” on occasion of inauguration of Biology Association in NGM College, Pollachi. 27-02-2012.
- Delivered a lecture on “Plant Natural Products in Cancer Drug discovery, UGC - Academic Staff College, Bharathiar University. 26-01-2012.
- Resource person in the students training program on “Herbal Solution to Cancer” organized by Yang Ming University in collaboration with national Chinese Herbal Medicine Institute, Taipei, Taiwan delivered a lecture on “Screening of Secondary Metabolites. 05-08-2011 to 08-08-2011.
- Delivered a lecture on AICTE sponsored “Advances in Modern Immunotechnology and Research-Staff Development Programme”, Karunya University, Coimbatore. 06- 07- 2011.
- Delivered a lecture on “Plant Tissue Culture a Tool in Biotechnology in the Winter School on Plant Tissue Culture Applications”, NRCBS, SBS, Madurai Kamaraj University. (August, 2011).
- Chaired a scientific session in the National Conference on Phytomedicine organized by Department of Botany, Bharathiar University. 05- 10- 2012.
- Delivered a lecture on “Recent Trends in Molecular Biology” to the students and faculty of Centre for Advanced Study in Botany, University of Madras, Chennai. (10- 12- 2012).

## **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

- Journal of Plant Biochemistry and Biotechnology
- Swamy Botanical Club, Bharathidasan University, Trichy.
- Society for Biotechnology

#### **REVIEWER**

- Acta Physiologia Plantarum
- African Journal of Biotechnology
- Vitis Journal
- Journal of Medicinal Plant Research

#### **EXAMINER**

- University of the Western cape, South Africa
- Mother Teresa University

#### **OTHER ACTIVITIES**

##### **BOARD OF STUDIES**

- Boards of studies member at Sri Vidya Mandir Arts & Science College (Autonomous), Krishnagiri, 2023.
- Boards of studies member at Periyar University Affiliated College, Salem. 2023
- Boards of studies member at Alagappa University Affiliated College, Karaikudi. 2023 &2022.
- Boards of studies member at Periyar University Affiliated College, Salem. 2019.
- Boards of studies member at Bharathidasan University, Trichy and Periyar University, Salem. 2018
- Boards of studies member at Periyar University, Salem (Ref. No.U/S2/BOS(UD)/2016) 20-04-16.

##### **SUBJECT EXPERT**

- Subject expert in the selection committee constituted for selecting the eligible candidate for the post of Assistant Professor in various disciplines at Kongunadu Arts and Science College, Coimbatore.11-11-2019.
- Subject expert in the selection committee constituted for selecting the eligible candidate for the post of assistant professor of Botany at Kongunadu Arts and Science College, Coimbatore. 23-11-2018.
- Subject expert for starting new course of M.Sc., Botany at Sri Vidya Mandir Arts and Science College, Katteri. 21-05-2018.
- Subject expert for the selection of field assistant in the DST-SERB-EMEQ sponsored research project at Periyar University, Salem. 30-10-2017.

##### **INSPECTION COMMISSION**

- Convener/Member of an inspection commission constituted to inspect and report on the infrastructural facilities for intake of course at Providence College for Women College, Connor. 02-04-2019.
- Member, inspection committee to inspect for starting new course of M.Sc., Botany for the academic year 2018-2019 at Sri Vidya Mandir Arts and Science College, Katteri. 05-06-2018.
- External squad member for Annamalai University to visit study/ information Centre of 10 places in Tamil Nadu state. 01-12-2015.
- Presiding officer, Lokshaba Election, Government Arts College, Coimbatore.23-04- 2014 to 24-04-2014.

#### **EXTERNAL EXAMINER/ UNIVERSITY NOMINEE FOR Ph.D., EXAMINER FOR THE VIVA VOCE**

- Doctoral committee member at Department of Botany, NGM College, Pollachi on 29.04.2023.
- Through online doctoral committee member at Department of Botany, Aringar Anna Govt. Arts College, Cheyyar on 08.07.2022.
- Through online doctoral committee member at Department of Botany, Sree Narayana College, Nattika, Thrissur-680 566 on 09.06.2022.
- Through online doctoral committee member at Department of Botany, St. Joseph's College (A) Bengaluru on 31.03.2022
- Through online doctoral committee member at Department of Botany, Research & Development center, Bharathiar University Coimbatore on 12.02.2022.
- Through online doctoral committee member at Department of Botany, Institute of Forest Genetics and Tree Breeding, Coimbatore on 25.01.2022.
- Through online doctoral committee member at Department of Botany, St. Joseph's College (A) Bengaluru on 12.01.2022.
- Through online doctoral committee member at Department of Botany, NGM College, Pollachi, 20.09.2021.
- Through online external examiner for the Ph.D. viva voce examination at Department of Botany, Kongunadu Arts and Science College, Coimbatore. 01-09-2021.
- Through online external examiner for the Ph.D viva voce examination at Department of Botany, Kongunadu Arts and Science College, Coimbatore. 02-09-2021.
- Through online candidate Mrs. S. Malathi, under the guidance of Dr. V. Balasubramaniam, Associate Professor and Head, Department of Botany, Kongunadu Arts & Science College (A), Coimbatore. Dated 03-02-2021.
- Through online candidate Mr. Jobi Xavier, under the guidance of Dr. Jayarama reddy, Professor and Head, Department of Botany, St. Joseph's College, Bengaluru. Dated 22-01-2021.
- Through online candidate Ms. D. Jaya Sudha, under the guidance of Dr. R. Mary Josephine, Associate Professor (Retd), Department of Botany, Nirmala College for Women, Coimbatore. Dated 12-01-2021.

- Expert to conduct the DC meeting of Botany Part-time Ph.D. (Category-B) at Bharathiar University, Coimbatore. 22-12-2020.
- Through online candidate Mrs. K. Maruvor Arasi, under the guidance of Dr. C. Krishnaveni, Associate Professor and Head, Department of Botany, PSGR Krishnammal College for Women, Coimbatore. Dated 28-10-2020.
- Through online examination Mr. Rajiul Hoque Bepary, under the guidance of Dr. D. Wadikar, Scientist, Defence Food Research Laboratory, Mysore. Dated 22-09-2020.
- K. Agnes Nirmala, under the guidance of Dr. M. Kanchana, Assistant Professor, Department of Botany, PSGR Krishnammal College for Women, Coimbatore. Dated 15-09-2020.
- External examiner for the M.Phil viva voce examination at Department of Botany, Govt. Arts College (Men), Krishnagiri. 21-01-2019.
- Expert to conduct the DC meeting of Botany Part-time Ph.D. (Category-B) at Bharathiar University, Coimbatore. 25-10-2018.
- Constitution of doctoral committee member at Dept. of Botany, Periyar University, Salem. 08-02-2018.
- Expert to conduct the DC meeting of Botany Part-time Ph.D. (Category-B) at Bharathiar University, Coimbatore. 26-10-2017.
- Constitution of doctoral committee member at Department of Botany, Periyar University, Salem, 17-10-2016 and 05-04-2017.
- Constitution of doctoral committee member at Department of Biotechnology, Bharathidasan University, Tiruchirappalli. 30-03-2015.
- MPhil. Part hall supervisor at Bharathiar University 28-10-2013 and 30-10-2013.

#### **CPP UNIVERSITY EXAMINATION REPRESENTATIVE:**

- To conduct of CPP University examination at ICAT, Bommanahalli, Bangalore. 08-01-2019 to 12-01-2019.
- Center for Participatory Programme of Bharathiar University at Hindusthan College of Arts and Science, Coimbatore. 17-07-2018 to 25-07-2018.
- CPP University examination at The School of Business Logistics, 1, Sulaiman Zackaria Avenue, Casa Major Road, Egmore, Chennai. 06-01-2016 to 12-01-2016.
- CPP/COP education Bharathiar University examiner at Navarasam Arts and Science College for Woman, Arachalur, Erode. 23-07-2014 to 31-07-2014.

#### **OBSERVER**

- Observer for Joint CSIR UGC NET examination at Coimbatore Institute of Engineering Technology, Coimbatore on 07.06.2023.
- Observer for NEET(UG) examination at Rathnavel Subramaniam college of arts and science, Coimbatore on 07.05.2023.
- Observer for UGC- NET examination at Karpagam academy of higher education, Coimbatore on 11.03.2023.



- Observer for UGC- NET examination at KPR institute of engineering and technology, Coimbatore on 01.03.2023
- Observer for UGC- NET examination at KPR institute of engineering and technology, Coimbatore on 28.02.2023.
- Observer for AISSEE examination held on 08.01.2023 at Suguna PIP school, Nehru nagar, Coimbatore-641 014 on 21-09-2022 and 22-09-2022.
- Observer for UGC- NET examination at Akshaya College of Engineering and Technology, Kinathukadavu, Coimbatore 21-09-2022 and 22-09-2022.
- Observer for the conduct of Common University Entrance Test (CUET (UG) -2022) Phase- 3 at Amrita Vishwa Vidyapeetham, Coimbatore on 30-08-2022.
- NEET (UG) Observer-2022 held on 17-07-2022 at Shree Sarasswathi Vidhyaah Mandheer School, Metupalayam, Coimbatore.
- CET examination observer for Bharathiar University, Coimbatore. 27-10-2020.
- CBT observer for UGC-NET examination at Akshaya College of Engineering and Technology, Kinathukadavu, Coimbatore. 22-12-2018.
- JEE observer to be held at Angappa Edu, Trust Sr. Sec. School, Coimbatore. 08-04-2018.
- JEE observer to be held at N.S.S. Higher Secondary School. 02-04-2017.
- All India Pre-Medical/Pre-Dental entrance observer at Alphonsa English Medium School, Thamarassery, Kozhikode, Kerala. 01-05-2016.
- CBSE NEET exam observer Ministry of Health & Family Welfare at Trivandrum. 03-05- 2014 to 04- 05- 2014.
- CBSE NEET exam observer Ministry of Health & Family Welfare at Salem. 03-05-2013 to 04-05-2013.
- CBSE NEET exam observer Ministry of Health & Family Welfare at Salem. 04-05-2013.
- State Eligibility Test (SET) for lectureship served as a University Observer Donbosco Hr. Sec. School, Vellore. 07-10-2012.

### **ACHIEVEMENTS**

- Vice-President in the BHUTA election, Bharathiar University, Coimbatore for the period of 2020 to till date.
- Vice-President in the BHUTA election, Bharathiar University, Coimbatore for the period of 2018 to 2020.

### **REVIWER**

- Journal of Applied Biology and Biotechnology

### **CONVOCAATION COMMITTEE MEMBER**

- 30<sup>th</sup> to 37<sup>th</sup> Convocation at Bharathiar University, Coimbatore.
- Dated on 13.05.2022,18-12-2021, 26-02-2019, 14-11-2017, 07-02-2017, 12-09-2015, 22-12-2014 and 24-03-2014.

### EXTRA-CURRICULAR:

- Quarters committee meeting scheduled to be held on 12.12.2022
- Nodal officer on behalf of Bharathiar University with GEM hospital at Coimbatore.
- Member of the Committee constituted to fix up the seniority is scheduled to be held on 20.09.2022
- Organizing secretary of DST- PURSE Satellite Symposia held on 13-09-2022 to 15-09-2022.
- Organizing committee members constituted for organizing the 8<sup>th</sup> International conference on Environmental and Ecology from 22.08.2022-24.08.2022.
- Co-ordinator for Herbal garden funded by RUSA 2.0- BCTRC from 2020-2022.
- Resource person for NSS Integration Camp held on 23.05.2022.
- Campus monitoring committee conducted on AIU south zone Vice-chancellors held on 11.03.2022 to 12.03.2022
- Invigilated for MPhil/ Ph.D. Part –I Examination, Bharathiar University on 21.10.2021
- Committee member in Dr. NGP College, Coimbatore for renewal of MOU at 2021.
- Resource person for the UGC sponsored online Refresher Course in Life Sciences on 15.09.2021
- Canteen monitoring committee member in BU,2021.
- Standing committee meeting, PARAMARSH, Kongunadu Arts and Science College. 09-01-2020.
- B.Sc., Student of NCC (Indian National Cadet Corps).
- President of LEITMOTIV, Scientific Forum Organized in School of Life Sciences, Bharathidasan University (2003-2005).
- General Secretary of Bharathidasan University Research Scholar Association BURSA (2003-2005).

### INTERNATIONAL COLLABORATION

- Prof. Chi-Ying F. Huang, Institute of Clinical Medicine, National Yang-Ming University, Taipei, Taiwan.
- Dr Patrick G, University of KwaZulu-Natal, Westville Campus, Durban, South Africa
- Dr. A. Vasudevan, College of Agriculture, Delaware State University, Dover, USA.

### CO-PRINCIPLE INVESTIGATOR

- TANSCHÉ project entitled “CD36 and GPR120 mediated cell signalling mechanisms in taste bud cells implication in prevention of obesity development”.

### RESEARCH GUIDANCE

#### Ph.D. (DOCTOR OF PHILOSOPHY)

S.No	Name	Reg.No	Year	Status
1.	Amal.T.Cheeran	C2/BOT14PSEP06/2014	September, 2014	Completed
2.	A. Vignesh	C2/BOT15PNOV03/2015	November, 2015	Completed

3.	V. Balamurugan	C2/BOT16PJULY04/2016	July, 2016	Completed
4.	P. Karthika	C2/BOT16PNOV01/2016	November, 2016	Completed
5.	K. Raja	C2/BOT17PJULY04/2017	July, 2017	Completed
6.	S. Janani Sree	CRE/BOT21PDEC09/22	December,2021	Ongoing
7.	M. Vishnupriya	CRE/BOT21PDEC04/22	December,2021	Ongoing
8.	S. Sangamithra	CRE/BOT21PDEC07/22	December,2021	Ongoing
9.	E. Keerthi	CRE/BOT22PNOV03/22	November,2022	Ongoing

#### M.Phil. (MASTER OF PHILOSOPHY)

S.No	Name	Reg.No	Years	Thesis Title
1.	Amal.T.Cheeran	2012R398	October 2013	Development of protocols for genetic transformation of the legume Horsegram ( <i>Macrotyloma uniflorum</i> (Lam.) Verdc).
2.	K. Kamaleshwari	2012R401	October 2013	Optimization of <i>Agrobacterium</i> mediated genetic transformation <i>Vigna mungo</i> L.
3.	L. Gunasekaran	2013R321	October 2015	<i>In vitro</i> Culture and Phytochemical Screening of <i>Leucas aspera</i> (Willd.) Linn and <i>Leucas biflora</i> (Vahl.) R. Br.
4.	V. Balamurugan	2013R319	October 2015	<i>In vitro</i> culture and phytochemical studies of <i>Acorus calamus</i> L.
5.	S. Sivasankari	2014R1766	February 2016	<i>In vitro</i> culture and phytochemical analysis of <i>Macrotyloma uniflorum</i> (Lam.) Verdc.
6.	K. Raja	2015R375	November 2016	Preliminary phytochemical screening of various solvent extracts of <i>Striga densiflora</i> (Benth.) Benth.
7.	R. Kirithiga Mythrayi	2018RO158	October 2018	<i>In vitro</i> regeneration and <i>in-silico</i> characterization of UGT isoforms and DREB2 gene in <i>Stevia rebaudiana</i> Bertoni.

#### M.Sc. (MASTER OF SCIENCE)

S.No	Name	Reg.No	Years	Thesis Title
1.	P. Kowsalya rani	10BOTA06	April 2012 MSc.,	A non-tissue method of <i>Agrobacterium</i> mediated genetic transformation in Chickpea ( <i>Cicer arietinum</i> L.)
2.	M. Linga devi	10BOTA08	April 2012 MSc.,	A non-tissue method of <i>Agrobacterium</i> mediated genetic transformation in peanut ( <i>Arachis hypogaea</i> L.)
3.	S. Maheshwari	10BOTA11	April 2012 MSc.,	A non-tissue method of <i>Agrobacterium</i> mediated genetic transformation in Horse gram ( <i>Macrotyloma uniflorum</i> (Lam) Verdc.)

4.	M. Kasipandi	11BOTA08	April 2013 MSc.,	<i>Agrobacterium</i> mediated <i>in planta</i> genetic transformation of ( <i>Macrotyloma uniflorum</i> )
5.	S. Rukshana begum	11BOTA15	April 2013 MSc.,	Screening of morphological and biochemical changes by <i>in planta</i> transformation of <i>Vigna mungo</i> (L.)Hepper
6.	R. Vasudevan	11BOTA20	April 2013 MSc.,	<i>Agroinfiltration</i> of <i>Vigna unguiculata</i> (L.) walp leaves for fast transient expression in genetic transformation
7.	S. Jayasathya	12BOTA08	March 2014 MSc.,	<i>In planta Agrobacterium</i> mediated transformation andBiochemical screening in cowpea ( <i>Vigna unguiculata</i> L.Walp.)
8.	C. Chitra	12BOTA03	March 2014 MSc.,	Sonication assisted <i>Agrobacterium</i> mediated genetic transformation (SAAT) in <i>Vigna mungo</i> L.
9.	R. Kavitha	12BOTA10	March 2014 MSc.,	<i>Inplanta</i> method of <i>Agrobacterium</i> mediated genetic transformation in Peanut ( <i>Arachis hypogaea</i> L.)
10.	R. Dhileepan	13BOTA04	March 2015 MSc.,	Evaluation of Phytochemical, Antioxidant and Antimicrobial activity of leaf extracts of <i>Ficus amplocarpa</i> Govind. & Masil
11.	S. Revathy	13BOTA14	March 2015 MSc.,	Evaluation of Phytochemical, Antioxidant and Antimicrobial activity of leaf extracts of <i>Ficus guttata</i>
12.	S. Muthukumar	14BOTA09	April 2016 MSc.,	Morphological and biochemical characterization of Horse gram germplasm ( <i>Macrotyloma uniflorum</i> (Lam.) Verdc.) by the influence of plant parasitic nematode <i>Meloidogyne incognita</i>
13.	P. Karthika	14BOTA07	April 2016 MSc.,	<i>In vitro</i> Culture Studies and Phytochemical Analysis in <i>Sphaeranthus indicus</i> L.
14.	T. Unigagandhi	14BOTA18	April 2016 MSc.,	Phytochemical differences and antioxidant activity in <i>Madhuca longifolia</i> (J. Konig) J.F, Macbr
15.	J. Mahendran	4212145090 05	June 2016 M.Tech	<i>In vitro</i> culture and Phytochemical aanalysis of <i>Saraca asoca</i> (Roxb) De wild
16.	N. Ramya	15BOTA11	April 2017 MSc.,	Preliminary studies on phytochemical and antioxidant activities on weed plant <i>Oxalis latifolia</i> Kunth.
17.	P. Sivaranjani	15BOTA16	April 2017 MSc.	Characterization and evaluation of germplasm using morphological and phytochemical properties in Horse gram ( <i>Macrotyloma uniflorum</i> (Lam.) Verdc.)
18.	I. Rasathi	15BOTA12	April 2017 MSc.	Analysis of morphological and phytochemical characteristics of Horse gram ( <i>Macrotyloma uniflorum</i> (Lam.) Verdc.) Germplasm
19.	R. Dharani	15BOTA05	April 2017 MSc	Screening of phytochemical and antioxidant activity of endemic plant species <i>Elaeocarpus variabilis</i> zmarzty
20.	N. Gayathri	16BOTA07	May 2018 MSc.	Studies on nutraceutical value of leaf and bulb of <i>Oxalis Latifolia</i> Kunth.
21.	A. Monica	16BOTA13	May 2018 MSc.	Evaluation of phytochemical screening in leaf and stem of <i>Cirsium verutum</i> (d. Don) spreng
22.	R. Vasanth kumar	16BOTA18	May 2018 MSc.	Assessment of nutritional and nutraceutical properties in leaf, stem and fruit extract of <i>Berberis nilghiriensis</i> . Ahrend
23.	D. Gokulakannan	16BOTA09	May 2018 MSc.	Phytochemical and nutraceutical analysis in <i>Pandanus tectorius</i> ex Du Roi

24.	J. Nataraj	17BOTA13	April 2019 MSc.	Pharmacognostical studies of <i>Oxalis latifolia</i> kunth.
25.	S. Sharmila	17BOTA16	April 2019 MSc.	Phytochemical analysis and anticancer activity from callus extract of <i>Gloriosa superba</i> L.
26.	S. Janani Sree	18BOTA07	April 2020	<i>In Vitro</i> Regeneration and Phytochemical screening of <i>Parochetus communis</i> Buch. -Ham. Ex D. Don.
27.	N. Dipshika Motwani	18BOTA05	April 2020	Phytochemical and <i>in silico</i> analysis of <i>Priva cordifolia</i> (L.f.) Druce derived phytochemicals against migraine causing vasodilator PACAP 38 and its nociceptor PAC1-R.”
28.	S. Yasotha	19BOTA25	March 2021	Phytochemical analysis and anticancer activity of <i>Gymnema sylvestre</i> R.Br
29.	M. Vishnupriya	19BOTA24	March 2021	Propagation and microtuber production of <i>Gloriosa superba</i> L.
30.	K. Dharani	19BOTA06	March 2021	Structural Elucidation of p21 and its interaction with non-carcinogenic volatile compounds from active fractions of <i>Oxalis latifolia</i> Kunth.
31.	V. Abarna Arul Selvi	19BOTA01	March 2021	Preliminary Phytochemical analysis and antibacterial activity of <i>Coleus amboinicus</i> Lour. Leaves extract.
32.	A. Hima	20BOTA06	June 2022	<i>In vitro</i> phytochemical analysis of <i>Leucas aspera</i> and <i>Leucas biflora</i>
33.	R. Nirmaalaya	20BOTA11	June 2022	Phytochemical screening and molecular docking of <i>Eleocarpus serratus</i>
34.	S. Sree Poranima	20BOTA18	June 2022	Phytochemical screening and molecular docking of <i>Pandanus canaranus</i>
35.	J. Kalaiyarasan	21BOTA10	June 2023	Preliminary phytochemical analysis of antioxidant and antidiabetic activity in various extracts of <i>Crateva religiosa</i> G. Forst.
36.	S. Madeshwaran	21BOTA12	June 2023	<i>Agrobacterium</i> mediated genetic transformation and molecular gene cloning of abiotic stress tolerance gene in horse gram
37.	J. Madhumitra	21BOTA13	June 2023	<i>In vitro</i> plant regeneration and phytochemical analysis of <i>Parochetus communis</i> Buch- Ham. Ex. D. Don