


SCIENTIST PROFILE

Name	Dr. G.THANAVENDAN	
Designation	Scientist -C	
Employee No.	005846	
Educational qualifications	Ph.D. in Agricultural Entomology	
Area of Specialization	Germplasm Conservation and Agricultural Entomology	
e-mail ID	agrigtv.csb@nic.in; agrigtv@gmail.com	
Salient Achievements	<ul style="list-style-type: none"> ➤ Identified 15 accessions performed better than the standard check of S13 of which seven female (♀), five male (♂) and three bisexual (MFBI). Three accessions (2 indigenous (MI-0099; MI-0011 and one exotic, ME-0033) performed well than all three check varieties i.e. V1, Vishala and S13, while, nine accessions (7 indigenous, one exotic and check variety V1) performed better than the check variety Vishala. Five indigenous accessions performed at par with V1, besides seven indigenous accessions performed at par with Vishala. These genotypes possess the desired traits like physiology and leaf quality interlinked with morphological and growth related yield attributing traits which makes them potential parental stocks for utilization in crop improvement programs. ➤ Museum plots were re-established for 14 <i>Morus</i> spp. and 10 morphotypes as part of mulberry genetic resources conservation. ➤ <i>Ex-situ</i> field gene bank (FGB) was re-established for 170 exotic accessions of Mulberry Genetic Resources. ➤ Identified the top five potential sources for Insect pest tolerance viz., ME-0280, ME-0268, ME-0268, ME-0283 and ME-0285 for chewing insect pests and also similarly identified for the sucking insect pests viz., ME-0264 ME-0268, ME-0282, ME-0285 and ME-0139. ➤ Survey, exploration and collection of wild mulberry silkworm cocoons and wild mulberry collection in HakeyTari, Ziro valley (2 nos.), Lower Subansiri District, Arunachal Pradesh. ➤ Survey, exploration and collection of wild mulberry (19nos.) in Nokrek biosphere, Tura, Meghalaya. ➤ Survey, exploration and collection of wild mulberry (8 nos.) in Kaloriang, Kurung-Kumey and Palin/ Sangram, Kra-Daadi districts of Arunachal Pradesh. ➤ Uprooted old and non-productive mulberry garden and developed four acre V1 variety mulberry plantation and also set up drip irrigation facility for one acre of existing plantation to meet out the leaf requirement for silkworm germplasm conservation. 	
Awards / Honours/Patents	<ol style="list-style-type: none"> 1. National Fellowship Recipient from UGC for pursuing Ph.D. programme in Agricultural Entomology 2. ICAR-NET Awarded for Agricultural Entomology-2013 	

Number of publications:	<ol style="list-style-type: none"> 1. Book/Book chapters: (1 no.) 2. Technical Bulletin: (3 nos.) 3. Compendium and Catalogue: (2nos.) 4. Research Papers: (15 nos.) 5. Conference/Seminar abstracts: (7nos.) 6. Popular articles: (5 nos.)
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Top 5 publications	<ol style="list-style-type: none"> 1. Thanavendan, G., Lokesh, G and Geetha N. Murthy, 2020. Explorative Survey of Wild Mulberry Silkworm Genetic Resources. Singapore Journal of Sci. Res., 10: 28-34. 2. Thanavendan, G., S. Jeyarani and J.S. Kennedy. 2017. Safety of Selected Botanical and Synthetic insecticides Against Braconid Parasitoids of Vegetable Ecosystems. International J. Plant Prot. 10 (1): 157-166. 3. Thanavendan, G., Saraswathi, P., Jhansilakshimi, K. and Alok Sahay. 2016. New report of Indian wax scale, <i>Ceroplastes ceriferus</i> (Fabricius) (Hemiptera: Coccidae) in mulberry Germplasm. Indian J. Sericulture. 54 (1, 2): 25-28. 4. Mondal R, Antony S, Gnanesh BN, Thanavendan, G., Ravikumar, G., Sreenivasa, B.T., Doss,G.S., Vijayan, K. 2023. A Protocol for Mitotic Metaphase Chromosome Count Using Shoot Meristematic Tissues of Mulberry Tree Species. Bio Protoc. 2023 Sep 5:13(17):e4643. doi: 10.21769/BioProtoc.4643.: PMC10810318. 5. Thriveni, M.C., S,Deepa, Thanavendan, G. Ravikumar, G. and B.T. Sreenivasa.2023. Characterization and Evaluation of Mulberry Genetic Resources for the Identification of Promising Accessions. (2023). Indian J. Plant Genetic Res., 36(1), 85-95.
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Work Experience				
Name of the employer	Designation of post held	Date of joining	Date of leaving	Nature of duties Performed
Central Sericultural Germplasm Resources Centre, Central silk Board, Thally Road, Hosur-635 109.	Scientist-C	01.01.2020	Till date	Mulberry Farm Management, Collection, Conservation, Characterization and Evaluation and supply of mulberry genetic resources
Central Sericultural Germplasm Resources Centre, Central silk Board, Thally Road, Hosur-635 109.	Scientist-B	22.02.2016	31.12.2019	Mulberry Farm Management, Collection, Conservation, Characterization and Evaluation and supply of mulberry genetic resources
Dept. of Agricultural Entomology, TNAU, Coimbatore 641003.	Ph.D. Work	16.08.2012	21.02.2016	Pursuing the Ph.D. in Agricultural Entomology at TNAU, Coimbatore.

Dept. of Agricultural Entomology, TNAU, Coimbatore 641003.	Senior Research Fellow	April, 2012	Aug., 2012	Plant protection and chemical pesticides evaluation in Vegetable cropping system.
The Cotton Corporation of India Ltd,(CCI) Ministry of Textiles, Warangal, Telangana.	Junior Cotton Purchaser	11.01.2010	31.03.2012	Quality Kappa's and raw Cotton Purchase, Ginning & pressing, Cotton bales Stock maintenance and ex-godown delivery.
Dept. of Floriculture and landscaping, HC&RI, TNAU, Coimbatore.	Senior Research Fellow	05.01.2009	31.12.2009	ICAR-NAIP project: Plant protection and pest monitoring in Jasmine, marigold and cut flowers crops

**Projects handled -
Since 2016**

1. **PIE 06008 SI:** Exploration-Collection, Characterization, Evaluation, Conservation and Supply of Mulberry Genetic Resources (Phase X)- (January-2023 to December-2025) as Principal Investigator
Funding Agency : CSB and Budget: **₹30.00**
2. **PIE 06001SI:** Collection, Characterization, Evaluation, Conservation and Supply of Mulberry Genetic Resources (Phase IX)- November, 2018 to March, 2022 as Principal Investigator
Funding Agency : CSB and Budget: **₹45.23**
3. **PIE 3566:** Evaluation of core-set of mulberry germplasm for physiological efficiency and leaf quality - March, 2016 to March, 2019 as Principal Investigator
Funding Agency : CSB and Budget: **₹10.20**
4. **PIB 3586:** Development of superior Mulberry varieties through controlled hybridization for North-West Indian States, [Collaborations with CSR&TI, Pampore] (February-2017 to February-2022 as Co-Investigator)
Funding Agency : CSB and Budget: **₹35.00** [For CSGRC, 4.65 Lakhs]
5. **PIB 3629:** Development of Mulberry genotypes suitable for rainfed hill farming in North - West India, [Collaborations with RSRS-Jammu under CSR&TI, Pampore] January- 2018 to June-2022 as Co-Investigator
Funding Agency : CSB and Budget: **₹16.30 Lakhs** [For CSGRC, 4.10 Lakh]
6. **PIB 3505:** Development of Drought Tolerant Mulberry variety for Rainfed Sericulture [Collaborations with CSR&TI, Berhampore] January- 2018 to June-2022 as Co-Investigator
Funding Agency: CSB and Budget: **₹11.82 Lakhs** [For CSGRC, 2.65 Lakhs]
7. **PIE 3575:** Evaluation of mulberry genetic resources for functional traits associated with resilience to climate change [Collaborations with CSR&TI, Mysuru] February- 2016 to May-2020 as Co-Investigator
Funding Agency : CSB and Budget: **₹22.25 Lakhs**
8. **PIC 01003 CN - NW4b:** Sugar-mimic alkaloids in mulberry and their role in modulating host plant-insect interactions [Collaborations with UAS_GKVK, B'luru & CSIR-NCL, Pune] as Co- Investigator
Funding Agency : CSB-DBT Network Project and Budget: **₹12.90 Lakhs**
9. **PIE 3541:** Collection, Characterization, Evaluation, Conservation and Supply of Mulberry Genetic Resources Phase-VIII (April-2015 to March-2018) as Co- Investigator
Funding Agency : CSB and Budget: **₹12.90 Lakhs**
10. **AIE 3542:** Collection, Characterization, preliminary Evaluation, Conservation and Supply of Silkworm Genetic Resources VIII Phase VIII (April-2015 to March-2018) as Co- Investigator
Funding Agency : CSB and Budget: **₹12.90 Lakhs**
11. **AIE 3577:** Evaluation of multivoltine germplasm to identify potential parents for developing cross breeds for Southern and Eastern India (CSGRC Hosur with CSR & TIs Mysore & Berhampore) (April-2016 to June-2019) as Co-Investigator
Funding Agency : CSB and Budget: **₹12.90 Lakhs**

Training Imparted	<ul style="list-style-type: none">➤ Training was imparted to Tamil Nadu Sericulture/ Ericulture farmers as part of central and state Government Scheme as and when required.➤ CBT-STEP, CSGRC Training Programme held on 9-10th January, 2023 for CSB scientists and senior Technical staffs of DoS.
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**Training/Seminar/
Workshop/
Attended/
Participated**

1. Training programme on " Management and Utilization of Plant Genetic Resources" (Virtual mode) held from 1st February to 21st February 2023 at Division of Germplasm Evaluation, PUSA, ICAR-NBPGR, New Delhi.
2. To participated in Workshop on Seri-Biodiversity on 12.03.2024 held at CSB-CSGRC, Thally road, Hosur.
3. International seminar on Agriculture, Food and Environment, and the Global Earth Challenge (Virtual mode) held on 03.05.2023 at VIT School of Agricultural Innovations and Advanced Learning Vellore Institute of Technology, Vellore.
4. Training on Development of diversified Seri-Byproducts: Recent achievements and future perspectives (Virtual mode) on 20.05.2023 at Central Sericultural Research and Training Institute, Central silk Board, Mysore.
5. International Training on "Agriculture in Future and Future in Agriculture "कृषि में भविष्य एवम भविष्य में कृषि" (Virtual mode) held at Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalior from 20th November to 11th December, 2023.
6. Training attended for Capacity Building of the employees in vigilance matters guided by Central Vigilance Commission on 28th October 2023 at Capacity building and Training division, CO, Central Silk Board, Bengaluru.
7. To attend National symposium "Entomology 2022: Innovation and entrepreneurship" held on 10.12.2022 and organized by Dept. of Entomology, Prof. Jayashankar Telangana State Agricultural University, Hyderabad and Entomological Society of India, Plant Protection Association of India.
8. Training on Biosecurity and Biosafety: Policies, Diagnostics, Phytosanitary Treatments and Issues (Virtual mode) held on 15.09.2021 to 24.09.2021 at PUSA-Complex, NBPGR, New Delhi.
9. Training on e-Pest surveillance and Pest advisory held on 30.09.2021 at e-SAP Unit, University of Agricultural science, Raichur.
10. International conference on Emerging Trends in Plant Protection for Sustainable Vegetable Cultivation held on 25-26th Aug. 2021 at Dept. of Crop Protection, Agricultural College and Research Institute, Eachangkottai, Thanjavur.
11. Online Awareness Programme on "Germplasm Registration in Horticultural Crops" held on 1st October 2021 via Zoom Meeting which is organized by ICAR-IIHR, Bengaluru.
12. Training on Writeshop- 2.0 conducted by Madras Agricultural Students Union (MASU), TNAU Coimbatore on 30th September, 2021.
13. Hands on training attended "Plant Germplasm Conservation, Management and Registration" at ICAR-IIHR, Bengaluru from 28 to 30th October , 2021
14. Hands on training programme of "Application of Statistical Tools in Sericulture Research" held on 23-24th November 2021 at Central Office, CSB complex, BTM Layout, Bangalore.
15. To attend workshop on "Leaf roller management in Mulberry Gardens" on 22.10.2021 and organized by KVK, Chintamani.
16. Underwent training programme of Intensive Hindi courses viz., Prabodh/ प्रबोध, Praveen/ प्रवीण and Pragya/ प्रज्ञा from 03.05.2018 to 23.07.2018 held at CSB-CSGRC, Hosur.
17. Training on Quarantine Procedure held at SSPC-NSSO, CSB, Madiwala, Bangalore from 04.01.2017 to 06.01.2017

Any other information	<ul style="list-style-type: none">➤ Maintenance of chawki and mulberry garden to supply quality leaves for silkworm (489 accessions) conservation rearings.➤ Monitoring of Net/Green house plants, Composting pit and Vermicomposting unit etc.➤ Actively involved in the GeM purchase and assisted to Administrative section for smooth and speedup the file process.➤ Member in Maintenance Committee, National programme, SQAC, OLIC, Security maintenance and Public auction Committee, etc.➤ To carry out the timely intercultural operations, prepare the pruning schedule, plan protection measures and monitoring of irrigation to Sericultural germplasm conservation as per SOP.
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