

## **Dr. THALLAPALLY MOGILI**

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### **Professional Summary:**

With over 30 years of dedicated service as a Scientist (Mulberry) at the Central Sericultural Research & Training Institute (CSR&TI) Mysuru, Central Silk Board (CSB), Ministry of Textiles, Government of India, I have cultivated a deep expertise in mulberry research and development. My career journey, spanning from November 1987 to February 2018, has been characterized by a relentless pursuit of excellence in the field of sericulture.

During my tenure, I led 28 research and development projects at CSRTI - Mysuru, focusing on the development of superior mulberry varieties. My efforts were directed towards enhancing leaf quality, productivity, and tolerance to varied stress conditions.

I played a pivotal role in all three phases of the Japan International Cooperation Agency (JICA) collaborative project, spanning from 1991 to 2007. This included the development of mulberry breeding and cultivation technology, demonstration and verification of mulberry cultivation technology, and popularization of bivoltine sericulture at farmers and Commercial Chawki rearing Centres (CRCs) under the Project for Strengthening extension system for Bivoltine sericulture (PEBS).

Notably, my leadership as the in-charge of the research extension centre in V. Kota from 2007 to 2016 resulted in the successful transfer of new technologies to benefit farmers, leading to increased productivity and the expansion of bivoltine sericulture. This initiative propelled the V. Kota cluster to be recognized as a "model bivoltine cluster" among South Indian clusters, garnering attention from farmers and officials from other states.

Committed to knowledge dissemination, I authored and published 20 technical manuals, book chapters, and booklets in both English and local languages, catering to the needs of sericulturists and officials. Additionally, I contributed to the body of knowledge with 28 popular articles, 35 research publications, and 62 presentations in various conferences and symposia.

In recognition of my contributions, I was honoured with the "**Louis Pasteur Award**" for Outstanding Contribution to the Development of Sericulture and Silk Industry by the International Sericulture Commission in 2019 at Tsukuba, Japan.

Furthermore, I have enriched my expertise through advanced training in mulberry cultivation technologies in **Tsukuba, Japan**, and mulberry breeding in **Hangzhou, PR China**.

As I embark on the next phase of my career, I am eager to leverage my extensive experience and expertise to continue driving innovation and growth in the field of sericulture.

## **Work Experience:**

### **2024-Present:**

- Member of Research Advisory Committee (RAC), Central Sericultural Germplasm Resource Centre, Hosuru.-

### **2018-2023 (post-retirement)**

Shared sericulture expertise with farmers (plantations, soil, diseases and pest control, non-spinning silkworm syndrome) & delivered talks at trainings and extension programs.

Contributed to "Mulberry Genome" book (Springer Nature), guided new scientists and seri-officials.

Published 5 research papers in top journals & evaluated research projects.

### **2016 – 2018:**

- Monitored eight research projects focusing on mulberry breeding and molecular biology, emphasizing the development of disease-resistant and productive genotypes.

- Coordinated three projects on Agronomy and Soil Chemistry.

- Guided the preparation of three project concepts aimed at developing adaptable and productive mulberry genotypes.

### **2006 - 2016:**

- Led the extension and transfer of bivoltine sericulture technologies under the Cluster Promotion Program in the V. Kota cluster.

- Implemented innovative interventions and established common facilities such as Commercial Chawki Rearing centers, mounting halls, bio-control agents production units, and mobile disinfection units.

- Conducted capacity-building human resource development and extension programs.

- Achieved a significant increase in bivoltine silk production, making the V. Kota cluster a model bivoltine cluster and the best among 106 clusters for 2015-16.

- Promoted eco-friendly approaches like seri-composting, integrated nutrient management (INM), and integrated pest management (IPM).

### **1987 - June 2006:**

A) Mulberry Breeding and Genetics Projects:

- Executed 28 research projects focused on developing superior mulberry varieties in terms of leaf productivity, quality, and stress tolerance to enhance productivity in sericulture.

B) Bivoltine Sericulture Technology Development (BSTD) under Indo-Japan Collaborative Project:

- Participated as an Indian counterpart in the development of mulberry breeding and cultivation technology for tropical conditions.

- Conducted surveys in Southern India to identify constraints and developed suitable technologies for producing quality leaves suitable for bivoltine silkworm rearing.

- Actively demonstrated, verified, and successfully popularized the new technologies in Karnataka and Andhra Pradesh.

### **Positions Held:**

|                           |              |  |
|---------------------------|--------------|--|
| Scientist-D               | 2014 to 2018 | Monitoring and research of Morigulture division activities and Extension   |
| Scientist-C               | 2006 to 2014 | Extension of research activities, TOT and popularization of bivoltine sericulture Mulberry Breeding & cultivation under JICA |
| Senior Research Officer   | 1997 to 2006 | Research in Mulberry Breeding & cultivation under JICA   |
| Senior Research Assistant | 1987 to 1997 | Research in Mulberry Breeding & cultivation activities under JICA  |

### **Education Qualifications:**

- **Ph.D. in Botany**, Kakatiya University, Warangal, Telangana – 1986
- **M.Sc. in Botany**, Kakatiya University, Warangal, Telangana – 1981
- **B.Sc. in Biology**, Kakatiya University, Warangal, Telangana – 1979

### **Awards:**

- **LOUIS PASTEUR AWARD - International Sericulture Commission (ISC) – 2019**  
Outstanding Contribution for the development of Sericulture and Silk Industry.
- **NATIONAL AWARD - CSB R&D MULBERRY EXTENSION & TRAINING AWARD – Central Silk Board, Government of India - 2016**
- **Gold Medal and Citation - Academy of Plant Sciences India – 2010**
- **Mulberry breeding Team Award - Central Silk Board, Govt. of India – 2003**
- **Best extension officer award** in 2008
- **Appreciation certificates from Dr. K. Kawakami**, Team leader JICA in 2002
- **Appreciation certificates from DR. H. Yanagawa**, Chief adviser, JICA-PEBS in 2007
- **14 appreciation certificates** from the Directors of CSRTI, Mysuru

### **Training:**

- **"Mulberry cultivation technologies" at Tsukuba, Japan in 2000**
- **"Mulberry breeding" at Hangzhou, PR China in 1994**
- **"Cluster Development" at Hyderabad, by NIMSME in 2010**
- **"Seri-research management " at CSB, Bengaluru by C&ED in 2008**
- **"Teaching and training skills" at CSRTI, Mysuru by IACT in 2006**
- **"Computer basics & applications in bioinformatics" at CSRTI, Mysuru in 2002.**

### **Highlights of the project(s) handled and significant achievements:**

- Development of mulberry varieties such as G2 for chawki rearing and G4 for late age silkworm rearing, MSG2, and AR-11 for rainfed conditions, and AR12 for soil alkaline conditions. These varieties have significantly enhanced productivity and resilience in various environmental settings.
- Pioneering research in generating basic scientific information, including the identification of good combiners, standardization of tropical breeding methodologies, softwood multiplication, top working techniques, and establishment of the relationship between leaf cuticular wax content, moisture content, moisture retaining capacity, and feed efficiency.
- Spearheaded the development of the Kuppam sericulture division into a model bivoltine area, achieving top rankings in 2013-14, 2014-15 and 2015-16 under the Cluster Promotion Programme (CPP). Through consistent Transfer of Technologies (TOT), we achieved remarkable results, with bivoltine brushing increasing from 2.89 lakh dfls/year in 2006-07 to an impressive 13.26 lakh/dfls/year in 2015-16 and the cocoon production increased from 183.8 MT in 2006-07 to 957.5 MT in 2015-16, all while maintaining high yield and quality standards.

- Played a pivotal role in identifying and popularizing advanced bivoltine mulberry cultivation technologies, notably varieties V-1 and S-36. These breakthroughs have not only enhanced productivity but also contributed to the sustainability and scalability of sericulture practices.

**Books :**

- Sericulture Field Guide (English and Telugu)
- Manual on Mulberry breeding
- Illustrated working process of new mulberry cultivation technology (two editions)
- Commercial Chawki Rearing
- Frequently asked questions in Bivoltine Sericulture Technology-Mulberry Cultivation Technology (English, Hindi, Telugu, Kannada and Tamil)
- South Zone mulberry sericulture technology descriptor (English & Telugu)



**(Signature of the Appicant)**

**Dr. Thallapally Mogili**

Place: Mysuru

Date: 27.04.2024