



## Scientist – F

**ICFRE - Institute of Forest Genetics and Tree Breeding (IFGTB),** (Indian Council of Forestry Research and Education-ICFRE) Coimbatore-641002, Tamilnadu (INDIA)

Tel: 91-422-2848193  
Fax: 91-422-2430549  
Mobile: 91-9629160703  
Email: [senthilnk@icfre.org](mailto:senthilnk@icfre.org)

## Research Focus

**Entomology:** Systematics, Biopesticides, IAIS, Climate change & **Bioprospecting**

## Skills

- Development of natural products: biopesticides, bioboosters, phytomedicine, biocolourants.
- Characterization of bioactive compounds.
- Instrumentation techniques: column chromatography, TLC, HPLC, GCMSMS.
- Insect taxonomy (Orthoptera :Tettigoniidae)
- Ecofriendly pest management – Biopesticides

## Patents – 2

## Trademarks -4

## Industry license – 1

## Regulatory license - 2

## Discovery of new species - 5

## Awards

Young Scientist – DST (2005)

Dr. N. Senthilkumar, Ph.D.,

## Professional Experience

**Bioprospecting of forest resources** for biopesticide, bioboosters, natural colourants, herbal health care and phyto products

2009–till date : Scientist, ICFRE- Institute of Forest Genetics and Tree Breeding, Coimbatore, Tamilnadu  
2008-2009 : Scientist, Institute of Forest Biodiversity, Hyderabad, AP  
2003-2008 : Scientist, Rain Forest Research Institute, Jorhat, Assam  
1999 -2003 : Ph.D (Madras University), Chennai  
1997-1999 : Lecturer (Ad-hoc), Madura College, Madurai

## Academic qualification

Ph.D., in Zoology (specialization in **Entomology**): 2003

## Research Projects & Funding agencies worth of 11.37 crores

More than **25 research projects** funded by ICFRE, BIRAC, DBT, SERC-DST, SERB-DST, NRDS-DST, SEED-DST, CAMPA, JICA, MoEF&CC, NBA, etc.

## Discovered 5 New species

**Five species** of tettigoniids (Orthoptera) namely *Phaneroptera rentzi*, *Trigonocoryph thenesis*, *T. ponmaniae* & *T. thiruvannamalaiensis* were described, published and deposited in zoobank

## Technology & Products Developed – 12 products

**12 ecofriendly products** :biopesticides namely, **Vilvekam**, **Hy-Act**, **Tree-PAL<sup>H</sup>**, **Ento-fight Nasa**, **Crawl clean**, **Simca BC** and a biobooster called **Tree Rich biobooster**, and **Tara Red natural colourant**, **Jam**, **Royalseema Red sanders soap**, **Anti-arthritis spray** and **Herbal hand sanitizer**.

## Patents 2– Tara Red, Biopesticide

Patents–Cyanidin-3-glucoside from red tamarind (No. 202241019072) and Cyclopentenyl Cyclic Fatty Acids from marotti seed Oil a (No. 202441077479).

## Trade marks & Copyright-5

Obtained “**Trade Mark**”® for the **bioproducts** as Intellectual Property Right (IPR).

- I) Tree Rich Biobooster® : No. 4582291 dt. 27.07.2020
- II) IFGTB’s Herbal hand Sanitizer®: No. 4698688 dt. 13.10.2020
- III) Tree PAL<sup>H</sup>® : No. 4693074 dt. 8.10.2020
- IV) Red sanders soap 5870030 dt 29.03.2023

**Copyright: No. 8922/2023-CO/CF dt. 05.04.2023**

## Sequence deposited in NCBI

Thirteen species of endophytic fungi of entomopathogenic significance was confirmed and the sequence were deposited in NCBI GenBank MW882241 to MW882247 and OL801347 to OL801353.

## Mobile Apps developed:

**Tree pests of India & Taxonomy of Orthoptera of Tamil Nadu**

## Publications

**125 research papers** in journals of national and international repute, **15 books**, **22 chapters** in books, **25 popular articles**, **85 invited lectures**, **2 Ph.Ds** and **15 M.Sc.**, in his credit.

## Training & Capacity Building

Imparted **45 trainings** on Bioprospecting of forest resources to IFS officers, scientists, academicians, Research scholars and students and organized 4 seminars.

**Project reviewer: 2 (DST & DBT).**, **25 journal reviewer**, **15 meetings/seminar/conferences**

**Students Co-ordinator imparted training : 210 students**

