



Scientist – F

Institute of Forest Genetics and Tree Breeding (IFGTB)

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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

Awards

Young Scientist – DST (2005)
Outstanding Scientist (VISF)
Best Scientist (NSF)

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, Institute of Forest Genetics and Tree Breeding, Coimbatore, Tamilnadu
2008-2009 : Scientist, Forest Research Centre, Hyderabad, AP
2003-2008 : Scientist, Rain Forest Research Institute, Jorhat, Assam
1999 -2003 : Research Scholar, G.S.Gill Research Institute, Guru Nanak College, Chennai
1997-1999 : Lecturer (Ad-hoc), Madura College, Madurai

Academic qualification

- Ph.D., in Zoology (specialization in **Entomology**) : 2003
M. Phil., in Zoology (specialization in **Entomology**) : 1997
M.Sc., in Zoology (specialization in **Entomology**) : 1996
B.Sc., in Zoology (specialization in **Entomology**) : 1994
Ph.D., Thesis title: Biodiversity of tettigoniids of Tamil Nadu.

Research Projects & Funding agencies worth of 6.4 crores

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

Discovery of New Species

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

<http://zoobank.org/urn:lsid:zoobank.org:pub:ABC2D02F-A012-42CF-8094-C5A3028781E8>

Technology & Products Developed

10 ecofriendly products : biopesticides namely, **Vilvekam, Hy-Act, Tree-PAL^H, Ento-fight Nasa, Crawl clean, Simca BC** and a bio booster called **Treerich biobooster** and a Phytomedicine named **R-500; Tara Red natural colourant Jam** and **Herbal hand sanitizer**.

Mobile Apps:

Tree pests of India & Taxonomy of Orthoptera of Tamil Nadu

Technology transfer- to Irular tribal WSHGs for their livelihood support who inhabit in forest fringe villages and fully depend on forest for their livelihood.

Publications

90 research papers in journals of national and international repute, **15 books**, 18 chapters in books, 22 popular articles in his credit.

Training & Capacity Building

Imparted **38 trainings** on Bioprospecting of forest resources to IFS officers, scientists, academicians, Research scholars and students and organized 4 seminars.

Infrastructure development

Established new laboratory (Nano science Lab) and Southern Regional Tribal Welfare Centre, Demonstration cum Training Centre, Compost Yard and Product sale counter.

Project reviewer: 2 (DST & DBT)

Students Co-ordinator imparted training : 180 students