



01	Name	Dr Kannan C.S. Warriar
02	Educational Qualifications	B.Sc. (Forestry) with First Rank , Kerala Agric. Univ. M.Sc. (Forestry) with First Rank , Kerala Agric. Univ. Ph.D (Forest Genetics) FRI Deemed Univ., Dehra Dun
03	Designation	Scientist F
04	Core Specialization	Forest Genetics and Tree Improvement
05	Research Interests	Tree Improvement of Native and Exotic Tree Species Biodiversity Conservation
06	Research Projects (As Principal Investigator)	<ol style="list-style-type: none">1. Selection and Evaluation of <i>Haldina cordifolia</i> Roxb. Ridsale for Higher Wood Productivity (ICFRE Network Project, 2018-2023).2. Genetic Improvement of <i>Thespesia populnea</i> (ICFRE, 2017-2021).3. Screening of International Germplasm of <i>Casuarina equisetifolia</i> for Enhancing Productivity and Improving Rural Livelihood in Tamil Nadu (Tamil Nadu State Planning Commission, TNSPC, 2016-2020).4. Rapid Improvement of <i>Casuarina</i> and <i>Leucaena</i> to Enhance Pulpwood Production from Farm Forestry Plantations (Indian Paper Manufacturer's Association, IPMA, 2012-2018).5. Selection and Screening of Germplasm of <i>Thespesia populnea</i> for Improving Productivity (ICFRE, 2011-2016).6. Evaluation and Characterization of Clones of <i>Casuarina</i> with reference to Yield, Tree Form, Biomass, Pulping Characteristics and Key Nursery Pests (ICFRE, 2007-2012).7. Developing Cloning Techniques for Raising High Yielding Clonal Plantations of <i>Casuarina equisetifolia</i> L (ICFRE, 2008-2011).8. Status and Floristic Diversity of Sacred Groves – The Only Remnants of Natural Forests in Alappuzha District, Kerala (ICFRE, 2005-2008).9. Variability Studies with Special Emphasis on Physiology, Biometry and Biochemistry in Selected Tree Species for Tree Improvement (ICFRE, 2000-2005).

07 **Research Projects**
(As Co-Investigator)

1. Diversity Assessment of *Saraca asoca* for Selection of Superior Chemotypes and Mass Propagation” (National Medicinal Plant Board, NMPB, 2017-2021).
2. Isolation and Characterization of Cinnomoyl CoA Reductase Gene in *Casuarina equisetifolia* (ICFRE, 2016-2019)
3. Evaluation of Genetic Resources of *Melia dubia* in Tamil Nadu and Kerala for Productivity Enhancement in Tree Farming (ICFRE – All India Coordinated Project, 2012-2019).
4. Development of Descriptor and DUS Testing Guidelines for Indigenous Forestry Species (*Tectona grandis* and *Melia dubia*) and establishment of field gene bank (Protection of Plant Varieties and Farmer’s Rights Authority, PPV&FRA, 2014-2018).
5. Establishment of a South Zonal Germplasm Bank of *Melia dubia* (Karnataka Forest Department, 2014-2017).
6. Selection and Vegetative Propagation of *Neolamarckia cadamba* (Roxb.) Miq – An alternative species for Pencil, Match Wood and Ply Wood Industries (ICFRE, 2010-2014).
7. Germplasm Assemblage of *Melia dubia* in India (Andhra Pradesh Forest Department, 2012-2014).
8. Collection of Quantitative Field Data through Rapid Assessment of Population, Growing Stock and Natural Regeneration Status of *Pterocarpus santalinus* L. (MoEF&CC, 2011-2013).
9. Development of Yield Assessment Methods for *Eucalyptus* spp and *Anacardium occidentale* Using Image Analyser (Tamil Nadu Forest Development Corporation, 2006-2007).
10. Genetic Transformation of *Eucalyptus* and *Casuarina* to Enhance Salinity Tolerance (ICFRE, 2000-2005).
11. Assessing Growth and Physiological Variations like Photosynthesis in Fast Growing Tree Species for Improving Yield (ICFRE, 1997-2001).
12. Production of High Yielding Propagules of *Casuarina* and *Eucalypts* (ICFRE, 1997-1998).

08	Publications	154
	Books	14 (Edited)
	Chapters in Books	23
	Research Papers	117
	National	63
	International	26
	Reports	21
	Popular Articles	07

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| 09 | Patent | Obtained a patent for Tree Mean Diameter Estimation from Terrestrial Images Using Digital Camera (Patent No. 290429) alongwith Dr V Sivakumar, Dr C Buvaneshwaran and Shri K Ravichandran. |
| 10 | Release of Clones | Released three productive clones of <i>Casuarina equisetifolia</i> suitable for salt affected (sodic) soils. |
| 11 | Mobile App | Released a Mobile App, Tree Pests of India (Available in Google Play Store free of cost). |
| 12 | Awards / Fellowships | <ul style="list-style-type: none"> ❖ Rolla S Rao Award constituted by the Indian Association of Angiosperm Taxonomy for the best research work in the field of biodiversity conservation in India. Research on endangering sacred groves of a non forested region in Kerala won this award. ❖ KALA PRATHIBHA Award of the Kerala Agricultural University for FIVE years for the most talented male artist. ❖ ICAR (Indian Council of Agriculture Research) Fellowship for two years during the Masters Degree Programme. ❖ Kerala Agricultural University Merit Scholarship for four years during the Bachelors Degree Programme. |

13 Consultancies Rendered

- ❖ Evaluation of the National Afforestation Programme (NAP) implemented by Thiruvananthapuram, Chalakkudi, Palakkad, Nilambur, Ranni, Kothamangalam and South Wayanad, Forest Development Agencies (FDAs) in Kerala.
- ❖ Evaluation of Captive Plantations of Tamil Nadu Papers and Newsprints Ltd. raised from 2004 to 2010.
- ❖ Consultant member to the Andhra Pradesh Forest Development Corporation on Eucalypts Clonal Technology.
- ❖ Consultant member to the Kerala Forest Development Corporation on Development, Training and Establishment of Root Trainer and Clonal Nursery.

14 Journals Reviewed

- ❖ Journal of Tropical Forest Science
- ❖ Silvae Genetica
- ❖ Current Science
- ❖ Journal of Threatened Taxa
- ❖ International Journal of Agricultural Sciences
- ❖ Journal of Tropical Agriculture
- ❖ African Journal of Agriculture Research
- ❖ Indian Forester
- ❖ Journal of Human Ecology

Please visit [Publons](#) for verified records.

15 Trainings

- ❖ Trainer's Training Workshop on IDAMS (Internationally Developed Data Analysis and Management Software) by UNESCO at New Delhi.
- ❖ Training in Research Methodology with Special Emphasis on Statistics at Bangalore.
- ❖ Training on Use of Computer Software Packages Genstat and Dataplust for the Analysis of Tree Improvement Trials at Coimbatore.
- ❖ Course on Participatory Planning and Management of Natural Resources for Sustainable Livelihoods at National Institute of Rural Development, Hyderabad.
- ❖ Training on Decision Support Tools and Techniques at the Administrative Staff College of India, Hyderabad.

- ❖ Training on General Management Programme for Scientists at the Administrative Staff College of India, Hyderabad
- ❖ As the Course Coordinator, conducted a Specialized Training Programme on “Planting Stock Improvement, Clonal Trials / Testing” for two weeks for scientists and research officers of ICFRE Institutes at IFGTB, as per the HRD Plan of ICFRE.
- ❖ As the Course Coordinator, conducted a training programme on “Designing and Analysis of Plantations” to the officials of the Karnataka Forest Department at IFGTB.
- ❖ As the Organizing Secretary, organized the “Evaluation Workshop of the Southern Regional ENVIS Centres” at IFGTB as per the instructions of the Ministry of Environment, Forest and Climate Change.
- ❖ As the Organizing Secretary, organized training programmes on “Tree Pests and Disease Management and Tree Bioboosters and Biofertilizers” in collaboration with the Van Vigyan Kendra, Thrissur and Krishi Vigyan Kendra, Thrissur for farmers from different parts of Kerala under the extension component of IFGTB.
- ❖ As the Nodal Officer, implemented the Green Skill Development Programme on Quality Planting Material Producer for ENVIS India, MoEF&CC for 30 days.

16 Awareness Lectures

Has delivered **139 lectures** to create awareness among Students, Faculty of Various Universities, Senior Officials of State Forest Departments and Forest Development Corporations, Frontline Staff of State Forest Departments, Farmers and Tree Growers on various topics viz.,

- ❖ Need for Conservation of Sacred Groves which according to the National Environment Policy, Govt. of India, 2006 posses incomparable values.
- ❖ Principles of Forest Genetics.
- ❖ Tree Improvement.
- ❖ Clonal Forestry.
- ❖ Selection of Plus Trees.
- ❖ Designing of Seed Orchards.
- ❖ Quality Planting Stock Production.
- ❖ Management of Soil Health in Forest Plantations.
- ❖ Modern Plantation Technologies.

- ❖ Cultivation and Management of Economically Important Tree Species.
 - ❖ Application of Tissue Culture in Forestry.
- 17 **International Collaboration** Participated in the joint evaluation of the FAO co-ordinated global *ex situ* forest genetic resources conservation programme involving Indian Council of Forestry Research and Education, the DANIDA Forest Seed Centre (Denmark) and FAO.
- 18 **Foreign Visits** Participated in an International Programme on Tree Crop Improvement with the US Forest Service under the Sustainable Landscapes and Adaptation Programme of the United States Agency for International Development (USAID) and the Ministry of Environment Forest and Climate Change from 02-12 September 2014 at the United States of America.
- 19 **Other Responsibilities**
- ❖ Coordinator of [ENVIS](#) Centre on Forest Genetic Resources and Tree Improvement under the Ministry of Environment Forest and Climate Change, Government of India.
 - ❖ Nodal Officer for the Green Skill Development Programme of ENVIS India, Ministry of Environment Forest and Climate Change, Government of India.
 - ❖ Nodal Officer of Krishi Vigyan Kendra and Van Vigyan Kendra in Kerala for Extension Programmes.
- 20 **Extra Curricular**
- ❖ Has released a **Music Album** “DASHAPUSHPAM” (Music and Rendition).
 - ❖ Worked as a comperer in **All India Radio**, Thrissur, Kerala for Yuvavani.
 - ❖ Presented music programmes in **AIR and Doordarshan**.
 - ❖ Participated in the prestigious **Republic Day Camp at New Delhi representing the Kerala Contingent** during 1988.
 - ❖ Presented many **Music Concerts** in Tamil Nadu and Kerala.
 - ❖ Plays Mrudangam, Guitar, Harmonium, Harmonica & Idakka.
 - ❖ Functioned as a judge in the Kerala State Youth Festivals which is the largest cultural event in Asia for 10 years.
- (Please visit my [Personal Web Site](#) or [YouTube](#) Chanel for uploaded music (vocal and instrumental).

21 **Contact Details**

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YouTube : <https://www.youtube.com/channel/UCIYQ27R3VAi2sRzcfgBciag>

SoundCloud : <https://soundcloud.com/kannanwarrier>