

## PROFILE



### Address

Dr.B.Palanikumar  
Assistant professor (Plantation Technology)  
Kasthuri nagar, Dharapuram Main road  
Oddanchatram – 624619  
Dindigul district  
Tamil Nadu

### Profile summary

Dr.B.Palanikumar is working as an Assistant Professor (Plantation Technology) in the Department of Silviculture and Agroforestry at Forest College and Research Institute, Telangana. He has completed his Undergraduate, Master's and Doctoral degree in Forestry at Forest College and Research Institute, Tamil Nadu Agricultural University, Tamil Nadu. He has obtained Senior Research Fellowship from University of Grants Commissions (UGC) for his Ph.D. research period. He has published more than 25 national and international articles, 15 book chapters and 3 books as an author and coauthor. His area of interest is tree varietal development and also his specialization in design and development of site suitable Agroforestry models. He has received Best Ph.D. student award and young scientist award in the field of Forestry from Government of Tamil Nadu. He has presented and participated in various national and international conference, training and workshop.

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**Educational qualification** - Doctor of Philosophy in Forestry

## Work experience

Sl. No	Place of work	Nature of job	Scheme / Division	Period To D-M-Y
1.	Forest College and Research Institute, Mettupalayam	Student Senior Research Fellow	Inventory, Improvement and molecular characterization of <i>Calophyllum inophyllum</i> and <i>Pongamia pinnata</i> genetic resources	04.08.2013 to 25.10.2015
2.	Forest College and Research Institute, Mettupalayam	Senior Research Fellow	Screening, Evaluation and Improvement of Indigenous Tree Species for Coastal Agroforestry-TNPL	25.11.2015 to 30.11.2017
3.	Forest College and Research Institute, Mettupalayam	Course associate	UG – BSc (Forestry)	25.11.2015 to 30.11.2017

## Teaching Interests

- Silviculture and Silviculture systems
- Agroforestry
- Plantation Technology
- Nursery management
- Clonal forestry
- Practices of Silviculture
- Silviculture of Indian Trees

## Research Areas

- Precision silvicultural technology for forest tree species
- Development of multifarious agroforestry models
- Physiological changes of forest vegetation
- Native forest creation
- Hybridization

## Courses Taught

- Silviculture and Silviculture systems
- Agroforestry
- Plantation Technology

- Nursery management
- Clonal forestry
- Practices of Silviculture
- Silviculture of Indian Trees

### **Fellowship / Awards**

- UGC – RGNF award for Ph.D programme
- BEST Ph.D SCHOLAR OF THE YEAR 2016 – Tamil Nadu Agricultural University (TNAU), Tamil Nadu.
- Young scientist award – Guard society

### **Scholarly activities**

#### **Journal Publication**

Palanikumar, B., K.T. Parthiban, I. Sekar, R. Umarani and D. Amirtham. 2016. Variability Studies for Seed and Seedling Traits in *Pongamia pinnata* (L.) at Tamil Nadu. Electronic Journal of Plant Breeding, 7(3): 657-665.

Palanikumar, B., K.T. Parthiban and R.Thiruniraiselvan. 2016. Seed and oil quality characteristics in Undi (*Calophyllum inophyllum* L.). Journal of Oil seeds Research, 33 (2): 126 – 135.

Palanikumar, B. 2015. Variability Studies for Seed and Seedling Traits in *Calophyllum inophyllum* (L.) at South India. Indian Journal of Hill farming, 28(1): 56-62.

Palanikumar, B., K.T. Parthiban, I. Sekar, R. Umarani, N. Krishna Kumar and I. Jaisankar. 2014. Genetic variability and relationship of tree characters and oil content of *Pongamia pinnata* (L.) Pierre in Tamil Nadu. Journal of Andaman Science Association, 19(1): 52-58.

Palanikumar, B. and M.R. Backiyavathy. 2014. Effect of integrated plant nutrient supply on sapling growth and development of *Dalbergia latifolia*. Advances in Plant Sciences, 27(1): 27-29.

Palanikumar, B and K.T. Parthiban. 2017. Discrimination of *Calophyllum inophyllum*.L progenies through ISSR markers. International Journal of Current Microbiology and Applied Science, 6(4): 2433-2442.

Palanikumar, B., I. Jaisankar and P.Ganeshpandian. 2014. Effect of integrated plant nutrient supply on bio-chemical parameters of *Dalbergia latifolia* (Rose wood) seedlings. Journal of International Academic Research for Multidisciplinary, 1(12): 114-116.

Palanikumar, B., K.T. Parthiban and I. Sekar. 2015. Provenances variation in growth traits and oil content of *Calophyllum inophyllum* (L.) Suitable to south Indian condition. Journal of International Academic Research for Multidisciplinary, 3(6): 247-255.

### Books

<b>Title</b>	<b>Author (s)</b>	<b>Year of Publication</b>	<b>Publisher</b>	<b>ISBN No.</b>
Effect of integrated plant nutrition system on Rose wood seedlings	<b>B.Palanikumar</b> M.R.Backiyavathy	2012	Lambert Academic Publishing	ISBN: 978-365-947-5436
Research in Forest Soils at Forest College and Research Institute - A Review	<b>B.Palanikumar</b> K.T.Parthiban	2013	Lambert Academic Publishing	ISBN: 978-365-963-1337
Genetic Transformation in Forest Trees	<b>B.Palanikumar</b> K.T.Parthiban	2014	Lambert Academic Publishing	ISBN: 978-384-840-0706
FAQ's on forestry- For IFS aspirants -I	K.T.Parthiban <b>B.Palanikumar</b> N.Krishnakumar R.Thirunirai selvan N.Kanagaraj	2017	Pearson publishers	In press
Money and Benefit Giving Tree (Tamil)	K.T.Parthiban R.Jude sudhagar <b>B.Palanikumar</b> N.Krishnakumar	2017	Kannadhasan publishers	ISBN: 978-365-963-1337
FAQ's on forestry- For IFS aspirants -II	K.T.Parthiban <b>B.Palanikumar</b> N.Krishnakumar R.Thirunirai selvan N.Kanagaraj	2017	Pearson publishers	In press
Biomass based power project in Tamil Nadu – A Review	P.Ganesh pandian P.Kavitha <b>B.Palanikumar</b>	2013	Lambert Academic Publishing	ISBN: 978-365-948-0300

## Book chapters

**Palanikumar.B.**, K.T.Parthiban, and I.Sekar. 2017. Value Addition Technology. **Forestry Technologies – A complete Value Chain approach**. Pp 527- 541. (ISBN-9789386102607).

Parthiban K.T., N.Krishnakumar, **B.Palanikumar** and S.Umeshkanna. 2017. Dendro Biomass Recourses for Solid and Liquid fuel Generation: Opportunities and Challenges. **Biocatalysts in Biomass to Bioproducts**, Pp 1-19. (ISBN-9789351248316).

Parthiban K.T., **B.Palanikumar** and N.Krishnakumar. 2017. Urban Forestry – Design Development and Management Technologies. **Forestry Technologies – A complete Value Chain approach**. Pp 68- 83. (ISBN-9789386102607).

Ramah.K., S.Marimuthu, K.Sivakumar and **B.Palanikumar**. 2017. Silvipastoral Technologies. **Forestry Technologies – A complete Value Chain approach**. Pp 242-255. (ISBN-9789386102607).

Sivakumar.K.,K.T.Parthiban, K.Ramah, **B.Palanikumar** and P.Priyadharshini. 2017. Technology for waste land development. **Forestry Technologies – A complete Value Chain approach**. Pp 382- 398. (ISBN-9789386102607).

Parthiban K.T., **B. Palanikumar** and N. Krishnakumar. 2017. Clonal evaluation, variability and association studies in *Casuarina junghuhniana*. **Plantation and Agroforestry – Pulpwood value chain approach**. Pp 194 - 203. (ISBN- 978-93-86347-98-5).

Parthiban K.T., Chavan Sangram, S. Vennila, **B. Palanikumar** and N. Krishnakumar. 2017. Progeny test, variability and association analysis in *Subabul Leucaena leucocephala* (Lam.) de Wit. **Plantation and Agroforestry – Pulpwood value chain approach**. Pp 214- 221. (ISBN- 978-93-86347-98-5).

Parthiban K.T., P. Kumar, V. Saravanan, **B. Palanikumar** and N. Krishnakumar. 2017. Genetic improvement of *Melia dubia* as a source of alternate pulpwood. **Plantation and**

**Agroforestry – Pulpwood value chain approach.** Pp 222- 234. (ISBN- 978-93-86347-98-5).

Parthiban K.T and **B. Palanikumar**. 2017. Production Technology of Pulpwood Species. **Plantation and Agroforestry – Pulpwood value chain approach.** Pp 259- 271. (ISBN- 978-93-86347-98-5).

### **Research project**

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### **Membership in Professional body**

Lifetime member of **INDIAN SOCIETY OF AGROFORESTRY**, Jhansi

Lifetime member of **TRENDS IN BIOSCIENCE**, Kanpur, Uttar Pradesh

Lifetime member of **INDIAN ACADEMIC RESEARCHERS ASSOCIATION**, Tiruchirapalli, Tamil Nadu.

Lifetime member of **ADVANCES IN LIFE SCIENCES**, Kanpur, Uttar Pradesh

Lifetime member of **TRENDS IN BIOTECHNOLOGY AND BIOLOGICAL SCIENCES**, Kanpur, Uttar Pradesh.

Life time Member in **CONSORTIUM OF INDUSTRIAL AGROFORESTRY (CIAF)**, FC&RI, Mettupalayam.

Life member of **UZHAVARIN VALARUM VELANMAI**, TNAU, Coimbatore.

Sessional Member of **THE INDIAN SCIENCE CONGRESS ASSOCIATION**, Kolkata, India.

### **Workshop / Conference / Symposium**

Presented a paper entitled "**Dendro biomass resources for solid and liquid fuel generation – Opportunities and challenges**" in 5<sup>th</sup> International conference on “Sustainable Utilization of Tropical Plant Biomass: Bioproducts, Biocatalysts and Biorefinery" on 17<sup>th</sup> and 18<sup>th</sup> November 2016, at Tamil Nadu Agricultural University, Coimbatore, India.

Presented a paper entitled "**Association of biometric attributes and feed stock quality on lingo cellulosic ethanol yield**" in 5<sup>th</sup> International conference on "Sustainable Utilization of Tropical Plant Biomass: Bioproducts, Biocatalysts and Biorefinery" on 17<sup>th</sup> and 18<sup>th</sup> November 2016, at Tamil Nadu Agricultural University, Coimbatore, India.

Participated in "**Disaster management and first aid**", sponsored by the District Management Authority, Southern Tamil Nadu, Government of India on 22<sup>nd</sup> April 2017 at Forest College and Research Institute, Mettupalayam, India.

Participated in "**Agroforestry strategies for climate change mitigation and adaptation**", sponsored by the Tamil Nadu Agricultural University, Tamil Nadu, Government of India on 21<sup>st</sup> and 22<sup>nd</sup> March 2017 at Forest College and Research Institute, Mettupalayam, India.

Participated in "**1<sup>st</sup> Annual workshop on Consortium of Industrial Agroforestry (CIAF)**", sponsored by the Tamil Nadu Agricultural University, Tamil Nadu, Government of India on 20<sup>th</sup> September 2016 at Forest College and Research Institute, Mettupalayam, India.

Presented a paper entitled "**Cultivation & Management practices of *Melia dubia***" in Maharashtra sandal grower and farmer Producer Company limited workshop on "**Sandal and *Melia dubia* cultivation in Maharashtra**" on 24<sup>th</sup> July 2016, at Latur, Maharashtra, India.

Presented a paper entitled "**Cultivation & Management practices of *Melia dubia***" in Maharashtra sandal grower and farmer Producer Company limited workshop on "**Sandal and *Melia dubia* cultivation in Maharashtra**" on 24<sup>th</sup> July 2016, at Latur, Maharashtra, India.

Presented a paper entitled "**Screening of phytochemical, anti-oxidant anti- microbial properties of *Polyalthia longifolia* seeds**" in 2<sup>nd</sup> International conference on Environment and Ecology" on 7<sup>th</sup>, 8<sup>th</sup> and 9<sup>th</sup> March 2016, at Bharathiar university, Coimbatore, India.

Presented a paper entitled “**Determinants of agro biodiversity index for livelihood sustainability**” in 2<sup>nd</sup> International conference on Environment and Ecology" on 7<sup>th</sup>, 8<sup>th</sup> and 9<sup>th</sup> March 2016, at Bharathiar university, Coimbatore, India.

Participated in "**Trends in Agricultural and Biosystems Engineering (TABE' 17)**", sponsored by Government of Tamil Nadu on 27<sup>th</sup> and 28<sup>th</sup> March 2017 at Tamil Nadu Agricultural University, Coimbatore, India.

Participated in "**4<sup>th</sup> Indian Biodiversity Congress (IBC 2017)**", sponsored by National Biodiversity Authority and Department of science, Technology and Environment on 10<sup>th</sup> and 12<sup>th</sup> March 2017 at Pondicherry University, Puducherry.

Participated in "**GC-MS Analytical Platform for Metabolomics: A way to understand complex biological pathway**", sponsored by the Tamil Nadu Agricultural University, Tamil Nadu, Government of India on 14<sup>th</sup> February 2017 at Agricultural College and Research Institute, Madurai, India.