

## BIODATA

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**Name of the Institute** Institute of Forest Genetics and Tree Breeding, Coimbatore

**Designation** Director

**Scale of Pay/ Present Pay** Level 15; Rs. 1,87,700/-

**Permanent Address** Cheravengat House, Thadiyankovval,  
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**Present Address:**

1. Work: Institute of Forest Genetics and Tree Breeding,  
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**Date of birth** March 23, 1965

**Knowledge of languages** Read, write and speak: English, Hindi and Malayalam ,  
Speak: Tamil

### Academic record:

Examination/Degree/Diploma	Year	Class/ Division	Name of the University/Institute/Board
B. Sc. [Botany (Main) Chemistry & Zoology (Sub.)]	1985	I	University of Calicut, Kerala
M.Sc. (Botany)	1987	I	University of Calicut, Kerala
Ph.D. (Botany) (Studies on Vegetation Ecology of Tadoba National Park, Chandrapur, Maharashtra)	2001		Forest Research Institute University, Dehradun

### Training in India and Abroad:

1. Two Weeks training on Advance Operation and maintenance of Scanning Electron Microscope (Model: Leica Stereoscan 430) at Leica Cambridge, Clifton Road, Cambridge, U.K. 1995.
2. One month training on Research Methodologies with Special Emphasis on Statistics, at IASRI, New Delhi.-1998.
3. ISO 14001: Environmental Management System Auditor Course-one week (Institute of Environmental Management and Assessment approved) at ICFRE Dehradun by Marsden International, UK. 2004.
4. Sanitary/ Phytosanitary (SPS), Risk analysis and Modeling Capacity Building Course (Two week) by Tuskegee University, Acharya N.G.Ranga Agricultural University and USDA/ APHIS at Hyderabad-2007
5. Mainstreaming Biodiversity for Environmental Impact Assessment (one week) at Wildlife Institute of India, Dehradun- 2008

### Employment record:

Institution	Designation	Period	Duties
Forest Department, Kerala	Research Assistant	September 12, 1989 to September 11, 1990.	Enumeration and regeneration survey of trees of Silent valley National Park, Kerala.
Tropical Forest Research Institute, Jabalpur (ICFRE)	Research Assistant Grade I	October, 1990 to July, 1992	Survey and Documentation of medicinal plants of Central India
Tropical Forest Research Institute- Jabalpur (ICFRE)	Scientist SC	August 1992 to August 1997	Survey and Documentation of medicinal plants of Central India; Germplasm collection of grasses, Plant diversity studies of natural forests and plantation, SEM studies
Tropical Forest Research Institute, Jabalpur and Institute of Forest Genetics and Tree Breeding Coimbatore-2 (ICFRE)	Scientist SD (Re-designated as Scientist C. w.e.f. 1.4.01)	August 1997 - 2003	Survey and Documentation of medicinal plants of Central India; Germplasm collection of grasses, Plant diversity studies of natural forests and plantation, Scanning Electron Microscopic studies
Institute of Forest Genetics and Tree Breeding Coimbatore-2 (ICFRE)	Scientist D	Jan. 2003 to Dec. 2009	Plant diversity and regeneration studies of natural forests including mangroves, sacred groves, Environmental Impact Assessment of bauxite mining sites at Araku valley, Visakhapatnam, Eco-

			restoration plan for Kudremukh mines, Evaluation of NAP activities in Kerala.
Institute of Forest Genetics and Tree Breeding Coimbatore-2 (ICFRE)	Scientist E	Jan. 2009 to Dec. 2013	Plant diversity and regeneration studies of natural forests, Environmental Impact Assessment of Hydro-electric project, Bhutan, Eco-restoration of degraded forests, preparation R&R Plan for mine affected areas in Karnataka and Re-assignment of Forest types.
Institute of Forest Genetics and Tree Breeding Coimbatore-2 (ICFRE)	Scientist F	Jan. 2014 to Dec. 2018	Plant diversity and regeneration studies of natural forests and plantations, Eco-restoration of degraded forests, preparation R&R Plan for mine affected areas in Karnataka, Carrying capacity studies in Saranda Forest of Jharkhand and Environmental auditing of opencast coal mines.
Institute of Forest Genetics and Tree Breeding Coimbatore-2 (ICFRE)	Scientist G	Jan. 2019 to 30.June 2020.	Plant diversity documentation natural forests, wetlands, plantations and coal blocks; Preparation of R&R Plan for mine affected areas in Karnataka; Environmental auditing and environmental performance index rating of opencast coal mines.
Institute of Forest Genetics and Tree Breeding Coimbatore-2 (ICFRE)	Director	July 2020 till date	Overall management of research and administration of the institute, Plant diversity documentation natural forests, wetlands, plantations and iron ore/ coal blocks; Preparation of R&R Plan for mine affected areas in Karnataka; Environmental auditing and environmental performance index rating of opencast coal mines.

#### Projects on-going/ Completed:

- Assessment of regeneration potential of native flora in *Acacia auriculiformis* plantations funded by Department of Forest and Wildlife, Govt. Kerala (as PI.).2019-2022
- Assessment Plant Diversity of Silent Valley Buffer Zone, Palakkad district, Kerala funded by Department of Forest and Wildlife, Govt. Kerala (as PI.). 2017-2021.
- Documentation of Phytodiversity in and around Singanallur Lake, Coimbatore Funded by Centre for Urban Biodiversity Conservation and Education (CUBE), Coimbatore (as PI.).2017-2019
- Re-assignment of Forest types of India (ICFRE Plan fund) as team leader for Tamilnadu state.
- Impact of forest plantations on ground flora diversity and soil characteristics including the prescription of management practices funded by ICFRE (as PI.) 2010-2014
- Development of site specific regeneration augmentation plan for potential degraded areas in Western Ghats funded by ICFRE (as PI.) 2009-2014

- Natural regeneration studies of important trees of Silent Valley national Park, Kerala funded by ICFRE (as PI.) 2004-2009.
- Infrastructure development of the Botanical Garden of the IFGTB and ex-situ conservation of selected Rare and Threatened species funded by MoEF (as PI.) 2004 to 2006
- Threatened Species Recovery Research for Silentvalley (Kerala) and Kolli hills (Tamilnadu) MPCAs Funded by Foundation for Revitalization of Local Health Traditions (FRLHT) Bangalore (as PI.) 2001-2004.
- Studies on the diversity of bee fauna of the Nilgiris (ICFRE Plan fund) As Co- investigator
- An in-depth assessment of sacred groves – the only remnants of evergreen forests in Alappuzha district, Kerala. (ICFRE Plan fund) As Co-investigator
- Population structure and reproduction in *Bruguiera* and *Ceriops*: implication on conservation (MoEF Fund). As Co-investigator
- Butterfly diversity in relation to landscape changes in the Walayar Valley, at Palakkad Gap in the Western Ghats (MoEF Fund). As Co-investigator
- Population structure, regeneration status and pollination ecology of *Dalbergia latifolia* and *D. sissooides* (ICFRE Plan fund) As Co-investigator
- Visitor Carrying capacity of Kuruva Islands in Wyanad district, Kerala As Co-investigator

#### **Contribution in Consultancy services as member of the team.**

- Biodiversity Assessment study with respect to the whole Hasdeo-Arand Coalfields comprising Tara, Parsa, Parsa East, Kente extension coal block area in Sarguja District Chhattisgarh (2019 onwards)
- Auditing of Environmental and Forest Clearance Compliance in mining areas of Singareni Collieries (2018 onwards)
- Developing Approach and Methodology for Index Rating of Environmental Compliance Conditions and Performance evaluation of coal mines of CIL.(2018 onwards)
- Preparation of Reclamation and Rehabilitation Plan for NMDC mines in Kirandul (2017 onwards)
- Environmental auditing of opencast coal mines of coal India ltd. (2015 to continue)
- Preparation of Reclamation & Rehabilitation Plan for mine affected areas in Bellary, Chitradurga and Tumkur districts in Karnataka state (2012 -continue)
- Carrying capacity studies in Saranda Forest of Jharkhand (2015-16)
- Macro level EIA for mines in Bellary, Chitradurga and Tumkur districts in Karnataka state as per direction of Honorable Supreme Court of India (2011)
- Comprehensive Environmental Impact Assessment (EIA) of Bhunaka Hydro electric project, Bhutan (2010-11)

- Comprehensive Environmental Impact Assessment (EIA) for Sankosh Multipurpose project, Bhutan (2010)
- Environmental Impact Assessment (EIA) study on the route of Conveyer belt for Ankua Iron Ore Deposits, Jharkhand (2010)
- Biodiversity Assessment for the proposal of 2000 MW Pit Head Thermal Power station by ESSAR Power ,Jharkhand (2009)
- Environmental Impact Assessment and preparation of Catchment Area Treatment plan for proposed Iron ore mine area in Ankua in West Singham District, Jharkhand (2008-09)
- Environmental Impact Assessment and preparation of Catchment Area Treatment plan for proposed Bauxite mine area in Jerrela blocks Chintapalli in Visakhapatnam District, Andhra Pradesh(2007-08)
- Preparation of Catchment Area Treatment plan for proposed Bauxite mine area in Arakku Valley (Chittamgondi, Galikonda and Rekthakonda) in Visakhapatnam District, Andhra Pradesh (2006-2007)
- Environmental Impact Assessment for proposed Bauxite mine area in Arakku Valley (Chittamgondi, Galikonda and Rekthakonda) in Visakhapatnam District, Andhra Pradesh (Provided by Andhra Pradesh Mineral Development Corporation Ltd. during 2006-07)
- Evaluation of changes likely to occur with the diversion of Reserve Forest on Flora and Fauna for realignment of Tellavagu nallah (a stream) at Singareni Collieries Company Ltd. Mine lease area, Kothagudem, Khammam district, Andhra Pradesh (2004).
- Preparation of Eco-restoration plan as a part of Mine Closure Plan for Kudremukh Iron Ore Company Ltd. Kudremugh, Karnataka (2004).
- To Advocate commission appointed by honorable High Court of Kerala for inspecting the area treated under Kerala Forestry Project funded by World Bank, as an expert for providing technical inputs to the commission especially on biodiversity loss, medicinal plants and regeneration issues in natural forests during 2001 &2002..
- Identification of Gene Pool Conservation Areas (GPCA) in Peria Forest Range, North Wyanad division, Kerala during 2004 and 2005 for Chief Conservator of Forests, (Eco-development and Tribal Welfare), Kerala Forest Dept.

## **PUBLICATIONS:**

### **(i) Books**

1. Bisen, S. S. and C. Kunhikannan 2002. *Medicinal Plants of Central India*, Tropical Forest Research Institute, Jabalpur pp 148

2. Kunhikannan, C., Nagarajan, B., Sivakumar V. and Venkatasubramanian N. 2004. *Species Recovery in a few Rare, Endangered and Threatened Plants of Silent Valley and Kolli Hills*. Project Report, IFGTB, Coimbatore 74p
3. Kunhikannan, C. and Gurudev Singh, B. (Eds.) 2005. *Strategy for Conservation of Sacred groves*, Institute of Forest Genetics and Tree Breeding, Coimbatore.
4. Krishnakumar, N., Kunhikannan, C., Sasidharan, K.R. and Manikandan, P. 2010. Abstracts of Publications-1998-2008, IFGTB, Coimbatore.
5. Palanisamy, K., Krishnakumar, N., Anandalakshmi, R., Kunhikannan, C. and Hukum Singh (Eds.). 2011. Abstracts: Consultative Workshop on Strategies for Formulation of Forest Genetic Resource Management Network (FGRMN), 9-10 March 2011, IFGTB, Coimbatore.
6. Nagarajan, B., Ravichandran, K., Yasodha, R., Kunhikannan, C., Sasidharan, K.R., Rekha Warriar, R. and Venkatasubramanian, N. (Eds.) 2011. *Souvenir Celebration of International Day for Biological Diversity and Centenary of Fischer Herbarium*. IFGTB, Coimbatore.
7. Nagarajan, B., Kunhikannan, C., Sasidharan, K. R. and Krishnakumar, N. 2012. *Tropical Ecosystems: Structure, Function and Services*, Institute of Forest Genetics and Tree Breeding, Coimbatore.
8. Nagarajan, B. Sasidharan, K.R. Kunhikannan, C. and Krishna Kumar, N. 2013. *Bibliographical Memoirs of Dr. S. Kedhamath*, IFGTB, Coimbatore.
9. Ratheesh, R., Sasidharan, K.R., Kunhikannan, C., Krishna Kumar, N., Raghunath, T.P. and Prabhu, A. 2014. *Butterfly Diversity of Forest Campus-A Pictorial Guide*. Institute of Forest Genetics and Tree Breeding, Coimbatore
10. Kunhikannan, C. (2018). *Precious Trees of India- Series II*, ENVIS Centre on Forest Genetic Resources & Tree Improvement. IFGTB Coimbatore.

## (ii) Chapters in Book

1. Kunhikannan, C. 2010. *Terminalia chebula*: In: Krishnakumar, N. Palanisamy, K. Hegde, M, Warriar, K.C.S and Krishnamoorthy, M.(Eds), *Manual of Economically important Forestry species in South India*, IFGTB, Coimbatore, 477-484.
2. Kunhikannan, C. 2010. *Toona ciliata*: In: Krishnakumar, N. Palanisamy, K. Hegde, M, Warriar, K.C.S and Krishnamoorthy, M.(Eds), *Manual of Economically important Forestry species in South India*, IFGTB, Coimbatore, 507-514.
3. Kunhikannan, C. 2011. Conservation of threatened medicinal plants –challenges and strategies in Souvenir: *Celebration of International Day for Biological Diversity and Centenary of Fischer Herbarium*. IFGTB, Coimbatore.
4. Kunhikannan, C. 2012. Introduction to plant taxonomy and identification. In: *Awareness Training manual on CITES*. Institute of Forest Genetics and Tree Breeding, Coimbatore.
5. Kunhikannan, C., Sasidharan, K.R., Nagarajan, B., Maria Dominic Savio, M., Venkatramanan, K.S., Subramanian, V. and Geetha, S. 2012. The state of *in situ* genetic conservation In: *Country Report on the State of Forest Genetic Resources-India* (eds. Krishnakumar, N., Raghunath, T.P., Jayaraj, R.S.C., Anandalakshmi, R. and Warriar, R.R.), Institute of Forest Genetics and Tree Breeding, Coimbatore, pp.71-80.

6. Kunhikannan, C. 2013. Protection measures against fire and grazing- a tool for augmenting natural regeneration in Silent Valley National Park, Kerala-73-76. In: Buvaneshwaran, C., Prasanth, R.S., Raghunath, T.P. and Krishna Kumar, N (eds.) *A Compendium of Silvicultural Technologies of IFGTB*. Institute of Forest Genetics and Tree Breeding, Coimbatore.
7. Kunhikannan, C. 2014. Grass resources of Jabalpur. In: Khatri, P.K. and Meshram, P.B. (eds.) *Familiarizing Local Biodiversity*, TFR, Jabalpur.
8. Kunhikannan, C. 2016 Biodiversity Conservation in India-A Policy frame work”, 418-444 In: Gupta et al. (Eds.) 2016, *Agroforestry for Increased Production and Livelihood Security in India*”
9. Sujanalal, P. and Kunhikannan, C. 2017. The Genus *Syzygium* in Western Ghats. In: Nair, K.N. (Ed.) *The Genus Syzygium: Syzygium cumini and other Underutilized Species*, CRC Press, Taylor and Francis, USA.
10. Kunhikannan, C., Nagarajan, B., Sivakumar, V. and Venkatasubramanian, N. 2020 Approaches Towards Threatened Species Recovery in Medicinal Plant Conservation Areas (MPCA)–Case Studies from South India, Chapter 14, 389-428. In: **Rajasekharan**, P.E. and **Wani**, S. H (Eds.), *Conservation and Utilization of Threatened Medicinal Plants*, Springer Nature, Switzerland.

### (iii) Papers in Journal

1. Kunhikannan, C., S.S.Bisen and N.C.Pant 1992. Conservation of medicinal plants- a note on conservation of threatened medicinal plants growing in deciduous forests. Proc. Regional meeting of Silviculturists and Research Workers of Central region held at Chandrapur, Nov. 19-20.
2. Kunhikannan, C., Mohan Varghese, N.G.Totey, S.S.Bisen, and K.N.Khawarey 1993. Vegetational diversity in Tadoba National Park, Chandrapur. *Indian J. Trop. Biod.* 1: 63-72.
3. Varghese, M., Verma, R.K., Kunhikannan, C., Khatri, P.K., Gogate, M.G., Dakshindas, S.D. and Totey 1993. Floristic diversity in permanent preservation plot in Bhimasankar Sanctuary, Maharashtra. *Indian J. Trop. Biod.* 1:167.
4. Verma, R.K., Varghese, M., Kunhikannan, C., Khatri, P.K. and Totey, N.G. 1993 Vegetational diversity of Dalal swamp, Seoni, M.P. *Indian J. Trop. Biod.* 1:242
5. Kunhikannan, C., Verma, R.K., Illorkar, V. M. and Totey, N.G. 1994 Plant diversity in and around Tadoba Lake, Maharashtra. *Indian J. Trop. Biod.* 2: 327-330.
6. Shadangi, D.K., Kunhikannan, C., and Totey, N.G. 1997 Floristic observations in Kapildhara (Amarkantak). *Vaniki Sandesh* 21(2): 8-11.
7. Bisen S.S., Kunhikannan, C., Rama Rao, N., Choudhary, K.C. and Srivastava, P. 1997. Conservation and cultivation of medicinal plants. *Proc. International workshop on Forestry Research in Conservation of Natural Forests* held at ICFRE, Dehradun. April 25-26.
8. Kunhikannan, C., Ram K. Verma, Raj K. Verma, Khatri, P.K. and Totey, N.G. 1998. Ground flora, soil micro-flora and fauna diversity under plantation ecosystem on bhata land of Bilaspur, Madhya Pradesh. *Environ. and Ecol.* 16(3) 539-548.
9. Khatri, P.K., Kunhikannan, C., Ram K. Verma, Raj K. Verma, and Totey, N.G. 1998. Biological diversity under plantations on bhata land. *J.Trop. Forestry* 14(1) 13-20.

10. Raj K. Verma, Khatri, P.K., Kunhikannan, C., Ram K. Verma, and Totey, N.G. 1998. Advantageous effects of the tree plantations on rehabilitation of bhata land ecosystem. *Indian J. Forestry* 21(3): 197-203.
11. Sandeep Kumar, Sarkar, A.K. and Kunhikannan, C. 1998. Regeneration of plants from leaflet explants of tissue culture raised Safed Siris (*Albizia procera*). *Plant Cell, Tissue, & Organ Culture* 54: 137-143.
12. Verma, R. K., Shadangi, D. K., Kunhikannan, C., Ram K. Verma and Totey N. G. 1995-98. Change in Biological Diversity and Chemical Properties of Soil by Mixed Tree Planting in Degraded Land, *Indian J. Trop. Biodiv.* 3- 6 (1-4), 1995-1998
13. Verma, R.K., Shadangi, D.K., Kunhikannan, C. and Totey, N.G. 1999. Impact of plantation in degraded land on diversity of ground flora, soil micro-flora and fauna and chemical properties of soil. *Trop. Ecol.* 40(2) 191-198.
14. Bisen, S.S., Ujjaini, M. M., Kunhikannan, C., and Choudhary, K. C. 1999-2000. Status of Bamboo in central India with special reference to Genetic Variations In *Dendrocalamus Strictus*, *Indian J. Trop. Biodiv.* 7-8(1-4):91-96
15. Seema Purushothaman, Viswanath, S. and Kunhikannan, C. 2000. Economic evaluation of extractive conservation in a tropical deciduous forests in Madhya Pradesh, India. *Trop. Ecol.* 41 (1) 61-72.
16. Raj K. Verma and Kunhikannan, C. 2000. Studies on impact of *Hardwickia binata* Roxb. and *Leucaena latisiliqua* (L.) Gillis plantations raised in degraded land on biological diversity and chemical properties of soil. *Indian J. Environ & Ecoplan.* 3(2): 325-336.
17. Bisen, S.S., Kunhikannan, C. and Choudhary, K. C. 2000. Integral strategy for promotion of green health movements based on herbal drugs. *Proc. National Seminar on Biodiversity Conservation, Management and Utilization for Sustainable Development.* Held at J.N.K.V.V. Jabalpur. April 19-20.
18. Singh, A.K. Sharma, N., Kunhikannan, C., and Banerjee, S.K. 2001. Effect of spacing on ground flora diversity and productivity in a *Dalbergia sissoo* plantation on degraded land. *J. Trop. For.* 17: 49
19. Kunhikannan, C. 2005. Traditions, Rituals and Biodiversity in Sacred grove of *Karakkakavu*, Kasargod district, Kerala state- a case study. In: Kunhikannan, C. and Gurudev Singh, B. (Eds.). *Strategy for Conservation of Sacred groves*, Institute of Forest Genetics and Tree Breeding, Coimbatore
20. Kunhikannan, C 2005. Flora and biological spectrum of Tadoba National Park, Chandrapur, Maharashtra. In: *Plant Taxonomy: Advances and Relevance* (eds. A.K.Pandey, Jun Wen & J.V.V. Dogra) CBS Publishers and Distributors, New Delhi.
21. Nagarajan, B, Kunhikannan, C. and Venkatasubramanian, N.2005. Reproductive fitness is a major factor in species recovery: case studies in Kolli hills and Silent Valley of South India. In: Abstract, *National Symposium on Emerging Technologies and their Application in Assessment, Conservation and Management of Threatened wild medicinal Plants and their habitats.* p 18-19, February 23-24, SFRI, Jabalpur.
22. Kunhikannan, C., Radhakrishnan, K., Santhosh Kumar, E.S., Jafer Palot and Sathyan, N.K.2005. Periya – Kunhome Geen pool Mekhalayilae Gyvavaividyam (Malayalam) Biodiversity of Periya-Kunhome Gene Pool Conservation area (GPCA). *Annual Report of North Wyanad Forest Development Agency(FDA)*, North Wyanad Forest Division, Kerala Forest & Wildlife Dept.
23. Bisen, S.S. and Kunhikannan, C. 2006. Extension of medicinal plant cultivation in farmlands in Central India. *Journal Non-Timber Forest Products* 13(3): 183-187.



24. Sasidharan, K.R. and Kunhikannan, C. 2006. Role of bees as pollinators of Tropical Forest species and need for conserving their diversity. *Advances in Pollen Spore Research* 24: 79-91.
25. Kunhikannan, C., Rama Rao N and Bisen, S.S. 2007. Diversity of different plant communities in Tadoba National park, Chandrapur, Maharashtra, India, *Indian J. Trop. Biod.* 15(2): 107-115.
26. Kunhikrishnan, E, Saraswathi, R., Kunhikannan, C. and Raja Mamannan, M.A. 2008. Biosphere: the world of Life forms. In: Pramod, P., Kunhikrishnan, E., Ravi kumar, Chatopadhyay, S., Sharma, J.K and Mishra, A.K. (Eds.), *Planet Earth- Our home: Explore, Share and care. Activity guide for 16<sup>th</sup> National Children Science Congress 2008*. NCSTC-network, New Delhi.
27. Kunhikannan, C. (2008) Diversity of Grasses, Seasonal Variations and Ecological Status of Grasslands in Jabalpur, Madhya Pradesh. *Indian Forester*, 134(2): 190-202.
28. D. Rajasugunasekar, Mohan, V. and Kunhikannan, C., (2007) First report of plant parasite *Helicanthus elastica* (Ders.) Dans. in *Ailanthus* plantation in Tamil Nadu. *Indian Forester* 133(9):
29. Santhosh Kumar, E.S., Radhakrishnan, K., Kunhikannan, C., Veldkamp, J.F. and Mohanan, C.N. 2008. Rediscovery of *Maesa velutina* Mez (Maesaceae/ Myrsinaceae): An endemic and endangered species of Western Ghats, India. *Rheedea* 18(1): 39-42.
30. Kunhikannan, C., Venkatasubramanian, N., Nagarajan, B., Sivalingam, R., Pramod Kumar N, and Salvi Thomas 2008. Diversity and population density of trees and lianas in Medicinal Plant Conservation Area (MPCA) in Kolli hills, Eastern Ghats, Tamilnadu. *Proc. Baquer, B.A., Krishna, I.S.R., Bhakshu, L.M. and Reddy C.S. Reddy (Eds.) National seminar on Conservation of Eastern Ghats, 28 and 29<sup>th</sup> December 2007, EPTRI, Hyderabad.*pp 67-72
31. Nagarajan, B., Kunhikannan, C., Venkatasubramanian, N. and Mutharaian, V.N. 2008. Is reproductive success a tool to species recovery? A case study on RET forest Genetic resources in Kolli hills, Eastern Ghats. *Proc. Baquer, B.A., Krishna, I.S.R., Bhakshu, L.M. and Reddy C.S. Reddy (Eds.) National seminar on Conservation of Eastern Ghats, 28 and 29<sup>th</sup> December 2007, EPTRI, Hyderabad.*pp 154-161
32. Kunhikannan, C., Rama Rao, N. and Bisen, S.S. 2009. Addition to the flora of Tadoba National Park, Chandrapur, Maharashtra, India *J. Econ. Taxon. Bot.* 33(1): 57-62.
33. Gopakumar, S., Indira Devi, P. and Kunhikannan, C. 2009. Technical efficiency of small scale packing case industries of Kerala, India, *J. Ind. Acad. Wood Sci. (N.S)* 6(1&2):80-89.
34. Kunhikannan, C and Krishnakumar, N 2009. Effect protection on regeneration of trees in Silent valley national Park. *Proc. National Seminar on Land Use Planning for Biodiversity Conservation, 6-7 August 2009 Thrissur.*
35. Sasidharan, K.R. and Kunhikannan, C. 2010. Bee faunal diversity in the Nilgiris part of the Western Ghats, Tamil Nadu. *Advances in Pollen Spore Research* 28: 1-16.
36. Kunhikannan C. Venkatasubramanian, N., Sivalingam, R., Pramod Kumar, N., Salvy Thomas and Sibin Thampan 2011. Diversity of woody species in the Medicinal Plant Conservation Area (MPCA) of Silent Valley National Park, Kerala. *Biodiversity* 12:2, 97-107
37. Kunhikannan, C and Krishnakumar, N. 2011. Effect of protection on regeneration of trees in grasslands of Silent Valley National Park, Kerala. *Indian J. Trop. Biod.* 19(1&2): 105-112.
38. Sasidharan, K.R. and Kunhikannan, C. and Ramesh, G. 2012. Plants associated with the bee fauna of the Nilgiris, 271-286. In: Nagarajan, B., Kunhikannan, C., Sasidharan, K. R. and Krisnakumar, N. (eds.)

*Tropical Ecosystems: Structure, Function and Services*. Institute of Forest Genetics and Tree Breeding, Coimbatore.

39. Kunhikannan, C. and Manikandan, P. 2012. Role of elephants in natural regeneration and distribution of wild mango, *Mangifera indica*- Experience from Silent Valley National Park, 294-299. In: Nagarajan, B., Kunhikannan, C., Sasidharan, K. R. and Krisna Kumar, N. (eds.) *Tropical Ecosystems: Structure, Function and Services*. Institute of Forest Genetics and Tree Breeding, Coimbatore.
40. Kunhikannan, C., Rama Rao, N. Sumer Chandra, Kamboj, S.K., Sudhir Kumar and Pachu, A.V. 2012. Phytosociological studies of forests in Sankosh River Basin, Bhutan. 333-351. In: Nagarajan, B., Kunhikannan, C., Sasidharan, K. R. and Krishakumar, N. (eds.) *Tropical Ecosystems: Structure, Function and Services*. Institute of Forest Genetics and Tree Breeding, Coimbatore
41. Gopakumar, S., Indra Devi, P. and Kunhikannan, C 2013. Small scale splint and veneer industries of Kerala State, India: A technical efficiency analysis. *Indian Forester*, 139 (6) : 530-537,
42. Kunhikannan, C. and Rama Rao, N 2013. Grasses and grasslands of Tadoba National Park, Chandrapur, Maharashtra. *J. Econ. Taxon. Bot.* 37(3): 500-512.
43. Kunhikannan, C. and Rama Rao, N. 2014. Phenological studies of trees of Tadoba National Park, Chandrapur, Maharashtra, India. *Indian Forester*, 140 (11): 1074-1080. 2014.
44. Manikandan, P and Kunhikannan, 2016 Avian flower visitors of *Helicteres isora* L. a deciduous forest species in Thathengalam forest of Kerala in Western Ghats, Intl. J. Advan. Res. Biol. Sci. .3(10):171-176.
45. Kannan C.S. Warriar, Kunhikannan, C. and Sasidharan, K.R. 2015 Endangering sacred groves of a non forested region in Kerala, India and Strategies for their conservation, *Indian Forester*, 141 (8) : 832-837.
46. Pachu, A.V., Kunhikannan, C., Mohan, V., Sudhir Kumar and Rama Rao, N. 2016. Assemblages of macrobenthic insect larvae of the Sankosh River basin in the areas bordering India and Bhutan, *Indian Forester*, 142 (5): 493-501, 2016.
47. C. Kunhikannan, N. Rama Rao and S. S. Bisen 2017. Vegetation Ecology of Tadoba National Park, Chandrapur, Maharashtra. *Journal of Interdisciplinary Biosciences*, 1(1): 21-45
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49. Sasidharan, K.R., Ratheesh, R. and Kunhikannan, C. 2018. Butterfly (Lepidoptera: Rhopalocera) diversity of Forest Campus, Coimbatore. *Uttar Pradesh Journal of Zoology* 38: (1)1-8, 2018.
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51. Jeevith, S., Kunhikannan, C, Rajasekar, C. and Samyudurai, P 2019. A checklist of orchids of shola and grasslands of Nilgiris, Western Ghats, India, *Biological Forum*, 11(1): 41-46.
52. Jeevith, S., Rajasekar, C, Samyudurai, P. and Kunhikannan, C. 2019. A Note of the Collection of *Ceropegia ensifolia* Bedd. (Apocynaceae: Ceropegieae) from Nilgiris, Southern Western Ghats, India. *Indian Forester*, 145 (5): 494-495.

### (iii) Short Articles

1. Bisen, S.S. and Kunhikannan, C. 1995 Herbal Garden- A remarkable venture towards conservation. *Trop. Sylvics*. 3(2) 9-10.
2. Mohan Varghese and Kunhikannan, C. 1993 Moist valleys in Tadoba National Park – An Ecological treasure. *Trop. Sylvics* 1(1&2): 20-21.
3. Kunhikannan, C. (2007) *Pulchedikaludae Koodae I* in Malayalam ( About grasses). *Soocheemukhi*, 27 (3): 14-17.
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5. Kunhikannan, C. (2007) *Pulchedikaludae Koodae III* in Malayalam ( About grasses). *Soocheemukhi*, 27 (5): 14-16
6. Kunhikannan, C. (2007) *Kattumavum Aanayum* in Malayalam ( Regeneration of wild mango and role of elephants). *Soocheemukhi*, 27 (8): 15.
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8. Kunhikannan, C. 2011. Conservation of threatened medicinal plants –challenges and strategies in Souvenir: *Celebration of International Day for Biological Diversity and Centenary of Fischer Herbarium*. IFGTB, Coimbatore.
9. Yasodha, R., Sasidharan, K. R., Kunhikannan, C. and Venkatasubramanian N. 2011. Integration of molecular techniques for taxonomic delimitation of *Dalbergia* species in Souvenir: *Celebration of International Day for Biological Diversity and Centenary of Fischer Herbarium*. IFGTB, Coimbatore.
10. Kunhikannan (2016) Pullukal Chillarakkara in Malayalam (Grasses are not silly ones), *Sasthrakeralam* November, 33-35.

### **Papers presented in workshop/ Seminar/Symposium**

1. Kunhikannan, C 2016 Importance Grasses and grasslands. A lecture organized for PG students and Research Scholars of Botany Dept. Sir Syed College Talipparamba on 12.02.2016.
2. Kunhikannan, C 2016. Taxonomy and plant resources of India with special reference to Taxonomic key preparation. A lecture organized for PG students and Research Scholars of Botany Dept. Nirmala College of Women, Coimbatore on 01.08.2016.
3. Kunhikannan, C 2016. Environmental Impact assessment. Lecture organized during the inauguration of Microbiology Association at Dept. of Microbiology, Sree Narayana Guru College, K G Chavadi, Coimbatore on 12.08.2016.
4. Kunhikannan, C, 2016. Floristic diversity and role of women in its conservation.. Presented in “Faculty Development workshop on Women and Biodiversity on 21.08.2016 at Bharathiar University, Coimbatore.
5. Kunhikannan, C 2016. Grasses of Jabalpur. Presented in “Training programme on Systematics of Plants” on 18.10.2016 At TFR, Jabalpur.
6. Kunhikannan, C 2016. 1. Biodiversity of Western Ghats Lecture and 2. Environmental Impact assessment to Trainees of Forest School Walayar, Kerala on 21.10.2016.

7. Kunhikannan C 2016. Biodiversity Assessment and monitoring. Lecture organized for trainees of Forest School, Winberligunj, Andaman on 21.02.2016.
8. Kunhikannan, C., Rama Rao, N., Pachu, A.V., Prasad, R.S., Kamboj, S.K. Sudhir Kumar 2016. Floristic diversity of Sal Forests in West Singhum District, Jharkhand, "International Seminar on Conservation and Sustainable Utilization of Biodiversity" and Annual Conference of Indian Association of Angiosperm Taxonomy, 7-9 November 2016 at Sivaji University, Kohlapur, Maharashtra.
9. Kunhikannan 2016. Role of Students/ Children in Biodiversity Conservation. Lecture organized for 6<sup>th</sup> to 12<sup>th</sup> class students, Chettinad Public School, Karaikudi, Tamilnadu on 26.04.2016.
10. Kunhikannan 2016-17. Biodiversity Assessment and monitoring. Presented in Workshop on Contemporary Forest management for multiple functions in the perspective of National Working plan code-2014 for SFS officers on 30.9.2016, 06.12.2016, 31.12.2016,
11. Kunhikannan 2016. Indian biodiversity- Status, concerns and strategies. Presented in "National Seminar on Environmental issues a factual profile" on 04.02.2016 at N S S College, Vazhoor, Kottayam, Kerala.
12. Manikandan, P. and Kunhikannan, C. 2012. Role of frugivore birds in maintaining the forest health: Observations from dry deciduous forests of Tamilnadu and Kerala. *Abs. National Seminar on Forest Health Management, 21-22 March 2012, Institute of Forest Genetics and Tree Breeding, Coimbatore.* 172
13. Mohan, V., Surendran, R., Kunhikannan, C. and Veeramani, T. 2012. Diversity of plant growth promoting Rhizobacteria (PGPR) and Arbuscular Mycorrhizal (AM) fungi in Teak Plantation of Tamilnadu and Kerala. *Abs. National Seminar on Forest Health Management, 21-22 March 2012, Institute of Forest Genetics and Tree Breeding, Coimbatore.* 144.
14. Mutharian, V.N., Nagarajan, B., Kunhikannan, C. and Venkatasubramanian, N. 2009. Variations in floral morphology, phenology and reproductive success in natural populations of *Smilax zeylanica*: Species recovery case study. Presented in National Symposium on recent Advances in Biodiversity of Indian subcontinent, 11<sup>th</sup> -13<sup>th</sup> March 2009, ZSI, Port Blair. A& N Islands.
15. Kunhikannan, C., Tamilarasi, R., Durai. A. and Subramanian, V. 2008 Natural regeneration of trees in low altitudinal grasslands of Silent Valley National Park, Kerala. Presented in *International Seminar on Multidisciplinary Approaches in Plant Systematics*, 11-13 October 2008 , Kalyani University, Kalyani, WB.
16. Kunhikannan, C., Venkatasubramanian, N. Sivalingam, R. Pramod Kumar, N. Salvy Thomas and Sibin Thampan 2009. Diversity of woody species in Medicinal Plant Conservation Area (MPCA) of Silentvalley National Park, Kerala XIX Annual Conference of Indian Association for Angiosperm Taxonomy (IAAT) & International Symposium on "Angiosperm Systematics & Phylogeny: Retrospects & Prospects" 12<sup>th</sup> -14<sup>th</sup> November, 2009, NBRI, Lucknow.
17. Kunhikannan, C. 2005. Traditions, Rituals and Biodiversity in Sacred grove of *Karakkakavu*, Kasargod district, Kerala state- a case study. In: National Workshop on *Strategy for Conservation of Sacred groves*, on 27-28 May 2004 at Institute of Forest Genetics and Tree Breeding, Coimbatore.
18. Nagarajan, B., Venkatasubramanian, N. Kunhikannan, C. and Sivakumar, V. 2005. What pollinates *Embelia ribes* and how successful is it? Integrating Science and Management of Biodiversity in the Western Ghats, 2nd National Conference of the Western Ghats Forum, 1-2 December 2005 at State Forest Service College, Coimbatore -2

19. Kunhikannan, C., Venkatasunramnian, N. and Sivalingam, R. 2003. Studies on Ecology of some Threatened Medicinal Plants in Medicinal Plant Conservation Areas (MPCA) in Silentvalley and Kolli hills” Presented in *National Seminar on Medicinal plants and Health care* held at Dept. of Botany, P.S.G.R.Krishnammal College for Women, Peelamedu, Coimbatore during 27<sup>th</sup> and 28<sup>th</sup> August 2003.
20. Nagarajan,B., Kunhikannan, C., Mutharaian V.N.and Venkatasunramnian, N.2003. Species Recovery and Conservation methods for *Aristolochia tagala* Cham. natural populations. Presented in *National Seminar on Medicinal plants and Health care* held at Dept. of Botany, P.S.G.R.Krishnammal College for Women, Peelamedu, Coimbatore during 27<sup>th</sup> and 28<sup>th</sup> August 2003.
21. Kunhikannan, C.2005. Simple Value Addition for Medicinal Plant Products- A Low Cost Drying Technique. Pp25. In: *Abstracts, Workshop on Agroforestry for Attappady Wastelands: Potential and Prospects*. January 8-9, Attappady Hills Area Development Society, Agali, Palakkad, Kerala.
22. Sasidharan, K. R. and Kunhikannan, C. 2005. Medicinal Plants Suitable for Cultivation in the Hill Areas of Attappady pp22. In: *Abstracts, Workshop on Agroforestry for Attappady Wastelands: Potential and Prospects*. January 8-9, Attappady Hills Area Development Society, Agali, Palakkad, Kerala.
23. Kunhikannan, C, Rama Rao, N and Bisen, S.S. 2004. Diversity of Plant Communities in Dry Deciduous Forests of Tadoba National Park, Chandrapur, Maharashtra, India paper presented in XIV Annual Conference of IAAT and National Seminar on New Frontiers in Plant Taxonomy and Biodiversity Conservation at Thiruvananthapuram organized by Tropical Botanical Garden and Research Institute, Kerala during 29-31 December 2004.
24. Warriar, K.C.S., Kunhikannan, C. and Gunasekaran, T. 2004. Sacred groves – Remnants of evergreen forests in Alappuzha district, Kerala. In: *Proceedings, National Workshop on Conservation of Sacred Groves*. September 16-18, Malabar Palace, Kozhikode, Organised by the Kerala Forest Department, pp 98-103.

#### **Workshop/ Seminar/Symposium/ meeting Attended**

- National Workshop to Identify Stakeholders and Capacity Building Needs in Forest Genetic Resource Conservation under APFORGEN programme on 11<sup>th</sup> July 2007, at the Institute of Forest Genetics and Tree Breeding, Coimbatore.
- National Seminar on Implications of the Protection of Plant Varieties and Farmers’ Rights Act, 2001 in Forestry on 4-5 July 2007 at the Institute of Forest Genetics and Tree Breeding, Coimbatore.
- National Workshop on Prioritization and Characterization of Fast Growing Native Tree Species on 8-9 August 2007 at the Institute of Forest Genetics and Tree Breeding, Coimbatore.
- Organized, and presented a paper in National Workshop on Strategy for Conservation of Sacred groves, 27-28 May 2004 at the Institute of Forest Genetics and Tree Breeding, Coimbatore
- Workshop on “Information management of biodiversity (plant genetic) resources in Botanic Gardens of India” at NBRI, Lucknow during 6-10 September, 2004.
- Interaction Workshop on “Participatory Forest Management & Gene Pool Conservation Areas” at High Range Circle Office, Kottayam, Kerala on 20.09.04

- National Consultation meeting for the review of the Eco-restoration project implemented by Attappady Hill Area Development Society (AHADS), Agali, Palakkad, Kerala from 17<sup>th</sup> to 18<sup>th</sup> Dec. 2003.
- Workshop on Sustainable Development and Marketing of Non-Wood forest Products” held at State forest Research Institute, Jabalpur during 28-30 January 1999, as Resource person.
- Liaison meeting with stakeholders like SFD, Representatives of Industries, Forest Development Corporation, NGOs and progressive farmers etc. on 27.9.2001 at IFGTB.
- Workshop on Nilgiri Biosphere Reserve Research needs held on 8.10.2001 at SFSC, Forest Campus Coimbatore.
- Training workshop on Intellectual property rights (IPR) issues in forestry from 19.12.2001 to 21.12.2001 at IWST, Bangalore.
- Annual Research Seminar” of Salim Ali Centre for Ornithology and Natural History, Anaikatty, during 2002 and 2003.
- National workshop on Agroforestry- Prospects and Challenges” held at IFGTB,Coimbatore on 22<sup>nd</sup> Nov. 2002.

#### **Other relevant information**

- A species of grass was named as *Iseilema kunhikannanii* in the honor of my contribution in biodiversity studies by Dr. Chandramohan, FSI, Regional circle, Nagpur.
- Supervised three Ph.D scholars of Forest Research Institute University on different aspects of Ecology and biodiversity and were awarded with Ph D Degree.
- Supervising two Ph D scholar of Forest Research Institute University and three scholars of Bharathiar University.
- Worked as guest faculty for teaching Forest Ecology for Forest Range Officer Trainees at State Forest Service College, Coimbatore during 2003-06.
- Acted as External Examiner for evaluation of Ph.D thesis from Calicut University, Calicut, Mahatma Gandhi University, Kottayam, Kannur University and Forest College and Res. Institute (TNAU), Mettupalayam
- Imparted one week training to FAO Fellow Mr. Nguyen Tu Kim of Vietnam during last week of July 1998 in operation and maintenance of Scanning Electron Microscope (model Leica Stereoscan 430) and tissue preparation for Scanning Electron Microscopy at TFRI, Jabalpur.
- Life Member of International Society for Tropical Ecology (ISTE).
- Life member of Indian Association for Angiosperm Taxonomy (IAAT)
- Member of International Society for Tropical Foresters (ISTF).
- Member of Society for Promotion of Tropical Biodiversity (SPTB)
- Life Member of Society for Environmental Education in Kerala (SEEK)
- Elected as Fellow Indian Association for Angiosperm Taxonomy (FIAT) from 2011.