

BIO-DATA

- 1. Name** : Ms. THULASI R.
- 2. Designation** : Research Assistant (Botany)
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- 4. Date of birth** : 08-07-1993
- 5. Educational qualification: Degrees obtained (Begin with Bachelor's Degree)**

Qualification	Name of Institute/University	Year of passing	Remarks
B.Sc.	University of Calicut, Kerala	2014	Third Rank in University of Calicut
M.Sc.	University of Calicut, Kerala	2016	First Rank in University of Calicut
GATE		2016	-
CSIR-UGC NET JRF	CSIR-UGC	December 2016 June 2017 December 2017	-

6. Research/Teaching Experience

Duration		Name of the Institute	Position	Particulars of work
From	To			
2017	2017	Sree Neelakanta Government Sanskrit College,	Guest Faculty	Handled classes for UG and PG students.

		Pattambi, Palakkad, Kerala		
2017	2018	Rajiv Gandhi Centre for Biotechnology (RGCB), Thiruvananthapura m, Kerala.	Research Scholar	Plant molecular studies
2018	2021	The Zamorin's Guruvayurappan College, Kozhikode, under University of Calicut, Kerala.	PhD Research Scholar (continuing as part time)	Studies on the influence of Palghat Gap of Southern Western Ghats on lycophytes and ferns in ecological, molecular and taxonomic aspects.
2021	Till Now	NARIP, Cheruthuruthy.	Research Assistant (Botany)	Botanical authentication and Pharmacognostical studies on medicinal plants

7. Research Specialization :(Major scientific fields of interest)

Plant Systematics

Pteridology

Ecological studies

Cell and Molecular studies of plants

Genetics

Plant Physiology and Metabolism

Phytochemistry

8. Financial support received : CSIR fellowship

9. Research projects in hand under IMR: As Co-investigator;

- Medico-Ethno Botanical Survey in the Forest areas of Palakkad district of Kerala state and Preparation of Monographs
- QC analysis, estimation of Markers/PRS & Shelf life studies of AYUSH-M3 and AYUSH-SS granules
- Medico-Ethno Botanical Survey in the Forest areas of Wayanad district of Kerala state.

- QC analysis and estimation of markers in polyherbal formulation Jwarahara kwatha Choornam (JKC) for the effective treatment of fever.
- Development of quality control protocols, identification and estimation of major bioactive constituents of Ayurvedic medicated oils ‘Murivenna’, Durvadikera, Bhringamalakadi Kerataila.
- Development and Digitalization of Authentic Ayurvedic Raw Drugs and Herbarium for the Medicinal Plants Appearing in Ayurvedic Formularies of India in Mandatory Drug Testing Laboratories of CCRAS.
- In vitro propagation and genetic stability studies of *Ipomoea mauritiana* Jacq. – a rare medicinal plant.

10. List publications, also accepted papers

- **Thulasi, R.** and Krishnakumar, K. 2018. Phytochemical and antibacterial analysis of two morpho-types of *Solanum melongena* var. *insanum* (L.) Prain. an ayurvedic herb. *Indian J. Pharm.Biol.Res.* 6(3), pp.39-47.
- **Thulasi, R.** and Kumar, K.K., 2020. Delineation of two morpho-types of *Solanum melongena* Var. *Insanum* (L.) prain. using morphological, anatomical and molecular techniques. *The Journal of Indian Botanical Society*, 99(3&4), pp.138-148.
- Maurya Rahul, Thirupataiah Boini, Misro Lakshminarayana, **Thulasi Radhakrishnan**, Rohit Kolangarakalam Sudayadas. 2022. Review: Various Approaches to Improve Solubility, Stability and the Clinical Potential of Andrographolide. *Journal of Young Pharmacists* Vol 14 Issue 1.
- Maurya Rahul, Thirupataiah Boini, Misro Lakshminarayana, **Thulasi Radhakrishnan**. Different aspects of Quality control in the standardization of Ayurvedic formulations. In *Recent Trends in Medical Pharmaceutical (Volume I)*. 2022. ISSN 978-81-955997-4-5.
- **Thulasi R.**, Maya C. Nair, K.P. Rajesh. 2022. Distribution of Lycophytes and Ferns along Altitudinal Gradients in Palghat Gap Region of the Western Ghats – A Preliminary Analysis. *Indian Fern Journal* 39(2). p.p. 34-57.
- Maurya, R., Thirupataiah, B., Misro, L. and **Thulasi, R.**, 2022. Effect of the Solvent Polarity and Temperature in the Isolation of Pure Andrographolide from *Andrographis paniculata*. *The Scientific Temper*, 13(02), pp.243-256.
- Maurya Rahul, Thirupataiah Boini, Misro Lakshminarayana, **Thulasi Radhakrishnan**, Rohit Kolangarakalam Sudayadas, Gaurav Pandey. Validation of UV Spectroscopic

Method for the Standardization of Jwarhara Kwatha Churna. 2022. Vigyan Prakash. p.p. 37-48.

- Boini, T., Maurya, R., Misro, L. and **Radhakrishnan, T.** 2022. Extraction and identification of bioactive compound embelin from embelia ribes fruits. Journal of medical pharmaceutical and allied sciences, Vol. 12, issue 1.
- Maurya, R., Thirupataiah, B., Misro, L. and **Thulasi, R.** and R. Singh. 2023. Review on Pharmacognostic, Phytochemical and Pharmacological Characteristics of Medicinal Plants which can be used to Design a Novel Ayurvedic Formulation to Treat Hypertension in Multidimensional Approaches. Current Hypertension Reviews. ISSN: 1573-4021.
- Rahul Maurya, Thirupataiah Boini, Lakshminarayana Misro, **Thulasi Radhakrishnan.** 2023. In-silico Studies of Boerhavia diffusa (Purnarnava) Phytoconstituents as ACE II Inhibitor: Strategies to Combat COVID-19 and Associated Diseases, Natural Product Sciences 29(2) : 104-112.
- **Thulasi Radhakrishnan,** Lakshminarayana Misro, Rahul Maury, Thirupataiah Boini. 2023. Comparative Pharmacognostical, Phytochemical, HPTLC, FT-IR and UV Spectral Studies on Leaf and Rhizome of Drynaria quercifolia (L.) J. Smith. Journal of Drug Research in Ayurvedic Sciences. (Accepted paper).

GenBank entries:

1. **Thulasi, R.** & Krishnakumar, K., Solanum melongena var. insanum maturase K (matK) gene, partial cds; chloroplast; **Accession MG543677.1**
2. **Thulasi, R.** & Krishnakumar, K., Solanum melongena var. insanum small subunit ribosomal RNA gene, partial sequence; **Accession MG572181.1**

11. Other information, if any:

Membership of Professional Societies/Associations

S. No.	Name of Society	From date	Valid till	Remarks
1.	Indian Botanical Society	2020 onwards	-	Life Member
1.	Indian Fern Society	2023 onwards	-	Life Member

Papers presented

1. **Thulasi, R.,** Maya, C. Nair & Rajesh, K.P. **Geospatial mapping of some IUCN red listed and narrowly distributed pteridophytes in Palghat Gap influenced areas of Southern Western Ghats of India.** XVII Annual Conference of the Indian Fern

Society and National Symposium on Advances in Pteridology Research: Present status and Future strategies. at Mansarovar Global University, Bhopal Madhya Pradesh. 25/11/2022 – 27/11/2022

2. **Thulasi, R.,** Parvathy G. Nair, Sree Deepthi G.N., Rohit K.S., Sudhakar D., Shiddhamallayya, N., Venketaswaralu, B. **Pteridophytes used by the tribal communities of Palakkad district, Kerala, to treat various disease conditions and as a food source.** XVII Annual Conference of the Indian Fern Society and National Symposium on Advances in Pteridology Research: Present status and Future strategies. at Mansarovar Global University, Bhopal Madhya Pradesh. 25/11/2022 – 27/11/2022
3. **Thulasi, R.,** Maya, C. Nair & Rajesh, K.P., **GIS mapping of Lycophytes and Ferns in Nelliampathy Hills of Southern Western Ghats, Kerala.** In XVI Conference of the Indian Fern Society and International Symposium on Research in Pteridology: Priorities and Challenges, at University of Calicut, Kerala, from 17th to 19th March 2022.
4. **Thulasi, R.,** Lakshminarayana Misro, Thirupataiah, B., Rajeesh, V.R., Rahul K. Maurya, Maya, C. Nair & Rajesh, K.P., **Comparative Pharmacognostical and Phytochemical Studies on few commonly available Pteridophytes in Kerala.** In XVI Conference of the Indian Fern Society and International Symposium on Research in Pteridology: Priorities and Challenges, at University of Calicut, Kerala, from 17th to 19th March 2022.
5. **Thulasi, R.,** Maya, C. Nair & Rajesh, K.P., **Ecological Niche Modelling of *Actiniopteris radiata* (Sw.) Link and *Elaphoglossum beddomei* Sledge using MaxEnt, in** National Conference on Pteridology Today and Tomorrow: Relevance to Impact on Diversity and Climate change, at Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, from 24th to 25th February 2020.
6. **Thulasi, R.,** Maya, C. Nair & Rajesh, K.P., **Preliminary Analysis of distribution of Lycophytes and Ferns in different microhabitats along in the Palghat Gap region.** In 42nd Indian Botanical Society Conference, at University of Calicut, from 6th to 8th November 2019
7. **Thulasi, R.,** Maya, C. Nair & Rajesh, K.P., **Distribution of Lycophytes and Ferns along Habitat Gradient in the Palghat Gap Region – A Preliminary Analysis,** in *International Conference on Next Generation Pteridology: Indian Perspectives,* at Dr. Bhupendra Nath Dutta Smriti Mahavidhyalaya, Bardhaman, West Bengal, from 8th to 10th of March, 2019.

8. **Thulasi, R. & Krishnakumar, K., Delineation of Two Morpho-types of *Solanum melongena* var. *insanum* (L.) Prain. using morphological, anatomical and molecular techniques,** in *National Seminar on Plant Sciences: Current challenges & Perspectives*, held at Department of Botany, University of Calicut, from 28th February to 2nd March, 2019.

Important Seminars/Workshops attended;

1. **XVII Annual Conference of the Indian Fern Society and National Symposium on Advances in Pteridology Research: Present status and Future strategies,** held at Mansarovar Global University, Bhopal Madhya Pradesh, from 25th to 27th November 2022.
2. **One Day Seminar on Standardization and Preclinical Studies of Ayurvedic Formulations,** held at National Ayurveda Research Institute for Panchakarma, Cheruthuruthy, Kerala, on 06th March 2023.
3. **National Seminar on Safety efficacy & Standardization on Panchakarma,** held at National Ayurveda Research Institute for Panchakarma, Cheruthuruthy, Kerala, from 10th to 11th January 2023.
4. **Training program on ‘Medico Ethno Botanical Survey and Documentation, Validation of LHT & Ethno medicinal Practices,** held at CARI, Jhansi, UP, from 18th January to 20th January, 2023.
5. **XVI Conference of the Indian Fern Society and International Symposium on Research in Pteridology: Priorities and Challenges,** held at University of Calicut, Kerala, from 17th to 19th March 2022.
6. **National Conference on Pteridology Today and Tomorrow: Relevance to Impact on Diversity and Climate change,** held at Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, from 24th to 25th February 2020
7. **Hands on Workshop on Ecological Niche Modelling,** held at Malabar Botanical Garden and Institute of Plant Sciences, Kozhikode, from 22nd to 24th November 2019
8. **Workshop on Scientific Writing and Plagiarism,** held at Kerala Agricultural University, on 16th November 2019.
9. **42nd Indian Botanical Society Conference,** held at University of Calicut, from 6th to 8th November 2019.

10. **Workshop on Molecular Phylogeny conducted by GIAN**, held at Department of Botany, University of Calicut, from September 23rd to 27th, 2019
11. **International Conference on Next Generation Pteridology: The Indian Perspectives**, held at Dr. Bhupendra Nath Dutta Smriti Mahavidhyalaya, Barddhaman, West Bengal, from 8th to 10th of March, 2019
12. **National Seminar on Plant Sciences: Current Challenges and Perspectives**, held at Department of Botany, University of Calicut, from 28th February to 2nd March, 2019.
13. **International Conference on Biodiversity Conservation**, held at MES Mampad College, on 21st and 22nd February, 2019.
14. **31st Kerala Science Congress**, held at Fatima Mata National College, Kollam, on 2nd and 3rd February, 2019
15. **Seven Day Research Methodology National Workshop for Research Scholars**, held at Sree Neelakanta Government Sanskrit College, Pattambi, from 28th January to 3rd February, 2019.
16. **Course on Vegetation Phenology to Understand Climate Change Impacts on Terrestrial Ecosystems conducted by GIAN**, held at Department of Geology, University of Kerala, on December 3 – 7, 2018.
17. **National Workshop on Hands on Training in Cytology**, held at St. Xavier's College, Palayamkottai, from 17th to 21st September, 2018.
18. **Two Day National Workshop on Data Analysis using SPSS**, held at Department of Statistics, Sree Neelakanta Government Sanskrit College, Pattambi, from 9th to 10th March, 2016.
19. **Two Day Seminar on 'An Insight into the Realm of Cryptogams'**, held at Sree Neelakanta Government Sanskrit College, Pattambi, on 11th and 12th of February, 2016.
20. **National Seminar on Technical Advancements in Life Sciences**, held at Sree Neelakanta Government Sanskrit College, Pattambi, on 14th and 15th of December, 2015.
21. **Nature Camp**, held at Silent Valley National Park, Bhavani Range, from 26th to 28th October, 2012.
22. **National Seminar on Impacts of Transgenics on Biodiversity**, held at Sree Neelakanta Government Sanskrit College, Pattambi, on 27th and 28th October, 2011.

Signature:

Date: