

CURRICULAM VITAE

PERSONAL PROFILE

Name : **Dr. K. NANDHINI**

Date of Birth : 02/05/1992

E. mail : nandhuwin19@gmail.com

ORCID link : <https://orcid.org/0000-0002-9720-0919>

Mobile No. : +91 6374644724



EDUCATIONAL QUALIFICATIONS

Course	Year of Study	Name of the Institution / University	Subject	% of Marks
Ph.D.	2025	Manonmaniam Sundaranar University, Tirunelveli	Botany	-
M.Phil.	2017	Manonmaniam Sundaranar University, Tirunelveli	Botany	88.5%
M.Sc.	2016	The American College – Madurai Kamaraj University, Madurai	Botany	77.4%
B.Sc.	2014	Bharathidasan Government College for Women - Pondicherry University, Puducherry	Plant Science	81.36%
D.T. Ed	2011	Vivekananda Teacher Training Institute – Puducherry	General	Grade – “A”
H.S.C	2009	Govt. HSS. Vadamadurai	State board	70%
S.S.L.C	2007	Govt. HS. Thennampatty	State board	72%
DCA	2012	Vijay InfoTech – 21/2002	-	Grade – “A”

WORKING EXPERIENCE

Worked as temporary Assistant Professor in the Department of Plant Science, Manonmaniam Sundaranar University, Tirunelveli, for the following period.

Name	Designation	Period Worked
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Dr. K. Nandhini	Temporary Assistant Professor	15.07.2024 to 30.04.2025 21.07.2023 to 30.04.2024 01.09.2020 to 15.05.2021. 15.07.2019 to 14.05.2020. 16.07.2018 to 15.05.2019. 13.07.2017 to 30.06.2018.
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AREAS OF SPECILIZATION

1. Plant Conservation Biotechnology (Plant Tissue Culture).
2. Plant Reproductive Biology.
3. Molecular Biology.

RECOGNITION/AWARDS

1. Qualified **Tamil Nadu State Eligibility Test for Lectureship (TNSET)**
Register No: 2502077
2. Served as a Resource Person in the **INSPIRE INTERNSHIP CAMP -2016** sponsored by the DST, Government of India at University of Madras, held on 24 - 28, December, 2016.
3. **Professor. S. Edwin award for Best Laboratory Works in Botany**, by Dept. of Botany, The American College, during the year 2015-16.
4. **Scholar member of Board of Studies**, conducted by Dept. of Plant Science, Manonmaniam Sundaranar University, Tirunelveli.
5. **Student member of Board of Studies**, conducted by Dept. of Botany, The American College, Madurai.

CERTIFICATES OF MERIT

1. Merit certificate of Bharathidasan Govt. College for Women, Plant Science Dept. awarded **Second rank for academic performance in Plant Science** during the year 2013-2014.
2. Merit certificate of Bharathidasan Govt. College for Women, Plant Science Dept. awarded **Second rank for academic performance in Plant Science** during the year 2012-2013.
3. Merit certificate of Bharathidasan Govt. College for Women, Plant Science Dept. awarded **Second rank for academic performance in Plant Science** during the year 2011-2012.

PUBLICATIONS

1. **Nandhini, K.**, N. Chithambaranathan & P. Ravichandran (2024) Effect of hydro alcoholic extract of *Baccaurea courtallensis* (Wight) Müll. Arg. on fertility in male rats. *African Journal of Biological Sciences* 6(6): 522-530.
2. **Nandhini, K.**, V.J. David, V. Manimekalai & P. Ravichandran (2023). Floral biology of *Baccaurea courtallensis* – an endemic tree species from peninsular India. *Journal of Threatened Taxa* 15(4): 22940–22954. <https://doi.org/10.11609/jot.8180.15.4.22940-22954>
3. **Nandhini, K.**, P. Ravichandran V.J. David, and V. Manimekalai (2022). *In Vitro* Sterilization Protocol for Callus Induction of *Baccaurea courtallensis* Muell. Arg.-An Endemic Tree of Southern Western Ghats. *Tropical Plant Research* 9(3): 96-102.
4. **K. Nandhini**, P. Ravichandran, T. Geetha and N. Sivaranjini. 2021. *In vitro* Mass Propagation of *Enicostema axillare* (Lam) A. Rayanal A Medicinally Important Herb. Journal of Scott Research Forum. Vol.11. ISSN: 0973-2705.
5. S. Priyatharshini, **K. Nandhini** and P. Ravichandran. 2021. *In vitro* Seed Germination and Mass multiplication of *Epidendrum radicans* Pav. Ex Lindl. – An Ornamental Orchid. Journal of Scott Research Forum. Vol.11. ISSN: 0973-2705.
6. P. Ravichandran, **K. Nandhini** and S. Ayyammal. 2021. Effect of Palmyra Liquid Endosperm (PLE) as a Growth Promoting Supplement in Plant Tissue Culture Medium. Journal of Scott Research Forum. Vol.11. ISSN: 0973-2705.
7. **Karuppiah Nandhini** and Sethuraman Ramakrishnan. 2016. A Review on *In vitro* Cultures Studies of a Traditional Medicinal Herb – *Achyranthes aspera* L. International Journal of Current Research in Biosciences and Plant biology. Vol. 3(9), pp. 57-63.
8. Sethuraman Ramakrishnan, **Karuppiah Nandhini**. 2014. Auxins and Physico-Chemical Factors Influenced Callus formation in *Achyranthes aspera* L. Leaf explant. Journal of Microbiology, Biotechnology and Food Sciences. Vol. 3(6), pp. 444-447.

ACADEMIC PROJECTS

1. Undergraduate project entitled as “**Callus induction potential of Plant Growth Regulators on the leaf explant of *Achyranthes aspera* L.**”

2. Postgraduate project entitled as “***In vitro* Intervention for Plant Recovery in Three Selected Therapeutic Arborescent Species of Commercial and Aesthetic interests**”.
3. M.Phil. project entitled as “**Assessing *In vitro* Regeneration Potential and DNA Barcoding of *Baccaurea courtallensis* Muell. Arg. – An Endemic Tree from Southern Western Ghats**”.

M.Sc. DISSERTATION, GUIDANCE – 12.

1. *In vitro* shoot multiplication of *Chloroxylon swietenia* dc. - a vulnerable plant.
2. Effect of plant growth regulators on seed germination and seedling growth of *Thespesia populnea* (L.) Sol. Ex corrêa.
3. Comparative floral morphology of selected *Phyllanthus* species.
4. *In vitro* propagation of *Pterocarpus santalinus* L.f. from shoot tip explants.
5. Effect of plant growth regulators on seed germination and seedling growth of *Vigna unguiculata* (L.) Walp.
6. Survey on tuber vegetables of tirunelveli district
7. A review on wild edible fruits of southern Western Ghats, India.
8. Lotus Stem/Petiole Anatomy and Histochemistry.
9. *In vitro* Seed Germination and Seedling Development of *Elaeocarpus serratus* L.
10. Traditional Knowledge of Plants in Paliyar Tribal of Theni District and *In Vitro* Mass Propagation of *Moringa concanensis* Nimmo.
11. *In vitro* clonal propagation of *Oroxylum indicum* (L.) Kurz. Using nodal explants
12. *In vitro* seed germination and seedling development of *Holoptelea integrifolia* (roxb.) Planch.

CONFERENCES/SEMINARS/WORKSHOP ATTENDED, PAPER PRESENTATION

1. Participated in Environment and climate change Govt. of Tamil Nadu sponsored “Two days workshop on forest carbon assessment” organized by Department of Department of Plant Science, M. S. University, on 13-14 March 2025.
2. Participated in DST-SERB sponsored “Two days workshop on composting for waste management” held at Department of Plant Science, M. S. University, on 20-21 February 2025.

3. Participated in **National Intellectual Property Awareness mission** on July 29, 2022 organized by intellectual Property Office, India.
4. Participated in **Empowering knowledge on ethical publishing: Mastering the art of identifying predatory, fake and cloned journals** at APAC Customer Success Hub, on Wednesday 08 June, 2022 Presented by Vishal Gupta Senior Customer Consultant-Elsevier, Prof. Sumit Narula Deputy Dean (Research & Publications)-Amity University Gwalior.
5. Participated in the **International Webinar on Climate Change and Future Challenges** organized by Marian Star Centre, Department of Botany, St. Mary's College (Autonomous), Thoothukudi, sponsored by the Department of Biotechnology, New Delhi from 3rd - 4th March 2022.
6. Participated in **"Wetlands action for people and Nature"** 2nd February organized by JNU ENVIS RP & SCST ECOTOURISM ENVIS.
7. Participated in the **5 days National level e-Workshop on "Innovative Techniques in SPSS and Data analysis"** on 3rd to 7th January 2022, organized by department of Visual Communication, Sathyabama Institute of Science and Technology, Chennai.
8. Participated in the Webinar on Food and Nutrition Security for Life on 23.12.2021 organized by Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore
9. Participated in J-Gate @ Shodhsindhu **"One platform to discover all scholarly E-journal literature"** organized by M.S.U and Informatics Publishing Limited Bangalore on 10th December 2021.
10. Participated in 11th All India Conference organized by the Scott Research Forum on 27.02.2021.

Paper presentation: 1. *In vitro* Mass Propagation of *Enicostema axillare* (Lam) A. Rayanal A Medicinally Important Herb. K.Nandhini, Dr. P. Ravichandran, T. Geetha and N. Sivaranjini.

2. *In vitro* Seed Germination and Mass multiplication of *Epidendrum radicans* Pav. ExLindl. – An Ornamental Orchid. S. Priyatharshini, K. Nandhini, Dr. P. Ravichandran.

3. Effect of Palmyra Liquid Endosperm (PLE) as a Growth Promoting Supplement in Plant Tissue Culture Medium. Dr. P. Ravichandran, K. Nandhini, S. Ayyammal.

11. Participated in a one day Webinar on Biodiversity – Urgent and Extential concerns organized by PG and Research Department of Botany, St. Mary's College, Thoothukudi on 10.06.2020.
12. International conference on Phytomedicine – 2018, organized by the Department of Botany, Bharathiyar University, Coimbatore, on 29th to 31st August 2018.
Paper presentation: In vitro callus induction of *Baccaurea courtallensis* Muell. Arg.- lesser known, underutilized, endemic and wild edible fruit yielding plant. Nandhini K, P. Ravichandran and V. Manimekalai - Department of Plant Science, Manonmaniam Sundaranar University Tirunelveli.
13. Participated in an International lecture series organized under Plants club – Palmyra by Department of Plant Science, Manonmaniam Sundaranar University Tirunelveli, on 02/08.2018.
14. Participated in the workshop on “Science Communication Skills” held on July 20, 2018 at the department of Plant Science, Manonmaniam Sundaranar University Tirunelveli.
15. National Conference on Recent Trends in Applied Perspectives of Plant Sciences (NCAPS – 2018), held on February 27 and 28, 2018, organized by Pachaiyappa Plant Science Research Forum.
Paper presentation: Amenability of *Ziziphus mauritiana* Lam. To alternate pathways of differentiation in vitro. **Nandhini, K.** and G. C. Abraham PG Department of Botany, the American college Madurai-625 002, Tamil Nadu.
16. Participated in Science Academies Education Programmes Lecture Workshop on Current Scenario in Biological Sciences, held On 09-10 February, organized by department of botany, St John's College, Palayamkottai, Tirunelveli.
17. Participated in one day state level seminar on “Biology of Untapped Floristic Forms” on January 5 2018, organized by department of Botany, Sri Parasakthi College, Courtallm, Tirunelveli.
18. Innovations in Biotechnology (NCIB-2017), Madurai Kamaraj University held on 14 and 15 December, 2017.
Oral presentation: Feasibility of in vitro Differentiation and Plant Production in Cultures of the Tree of Life, *Guaiaacum officinale* L.”**Nandhini, K.**, and G. C. Abraham.

Poster presentation:“A novel method to curb fungal contamination *in vitro* cultures of *Baccaurea courtallensis* Muell. Arg”.**Nandhini, K.**and P. Ravichandran.

19. National Seminar on “Recent Advances in Plant Science Research” (RAPSR-2017) held on 21 and 22 March, 2017, Annamalai University, Chidambaram.

Paper presented on the title: “A novel method to curb fungal contamination *in vitro* cultures of *Baccaurea courtallensis* Muell. Arg”. **Nandhini, K.** and P. Ravichandran
Department of Plant Science, Manonmaniam Sundaranar University, Abishekapatti - 627 012, Tirunelveli

Poster presentation:“Feasibility of *in vitro* Differentiation and Plant Production in Cultures of the Tree of Life, *Guaiacum officinale* L.” **Nandhini, K.**and G. C. Abraham PG Department of Botany, the American college Madurai-625 002, Tamil Nadu.

Poster presentation:“Proposal for Raising true to type plants in Meshwak tree, *Salvadora persica* L”. Rajesh Kanna, V. Jothilatha, **K. Nandhini**, and G.C. Abraham. PG Department of Botany, The American College, Madurai-625 002, Tamil Nadu.

20. Seminar on “Advanced Technologies and Innovations in Energy and Environment”, Organized by the School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai on 28th March 2017.

Poster presentation: “Feasibility of *in vitro* Differentiation and Plant Production in Cultures of the Tree of Life, *Guaiacum officinale* L.” **Nandhini, K.**and G. C. Abraham PG Department of Botany, the American college, Madurai-625 002, Tamil Nadu.

21. One day workshop on “Natural Dyes and their Applications” conducted by Dept. of Plant Science, M.S. University, Tirunelveli held on Feb 13, 2017.
22. Participated in three day training programme on “Biological Diversity Act, 2002” organized by IFGTB-Coimbatore held on Feb 1 to 3, 2017.
23. Participated in workshop on “Advances in Microscopy, Histochemistry and Plant Micro techniques” conducted by Plant Science department of M.S. University, Tirunelveli, held on Dec 19 – 21, 2016.
24. Participated in “The first milestone workshop on Bonsai” organized by TACED held on Sep 5, 2016 at Madurai.

25. Participated in “Panel Discussion on Union Budget 2014 – 15, conducted by The American College, Madurai held on July 21, 2014.

RESEARCH TRAINING AND LABORATORY SKILLS

1. Informed and equipped of handle independent and group projects in Analytical Studies in Plant biotechnology, Cell and Molecular Biology, Biochemistry, Plant Physiology and Embryology.
2. Well versed with handling Plant Tissue Culture works,
3. Maintained the DBT sponsored Shade Net facility of the conservation of threatened medicinal plants for two year from 2014 to 2016, at The American College, Madurai,
4. Revamped the instrumentation and the Algal and Plant Tissue Culture Laboratory at PG Department of Botany, at The American College, Madurai.
5. Assisted setting up Plant Tissue Culture lab at Department of Botany, Tagore Arts College, Puducherry.

TECHNICAL SKILLS

- ❖ Plant tissue culture techniques, DNA isolation, Gel electrophoresis – Gel documentation, PCR, DNA barcoding, Plant microtechniques, Histochemistry, UV-spectrophotometer handling, GPS handling and mapping.

FIELD EXPERIENCE/SKILLS

- ❖ In Western Ghats – KMTR regions, Achankovil, Ariynkavu, Thenmala, TBGRI – Palode, Ponmudi, Ooty, Kodaikanal, Manapadu, Uvary, Rameshwaram.

COMPUTER SKILLS

- ❖ Microsoft office, DTP.

EXTRA CURRICULAR ACTIVITIES

- ❖ Merit certificate of Inter-Collegiate Taekwondo Tournament/Competition 2012-13, participated and secured second place.
- ❖ Participated in Quiz and Tamil essay writing conducted by Red Ribbon Club of Pondicherry Engineering College held on Feb 16, 2011.
- ❖ Participated and Secured second place in Quiz “Plascia-2015” organized by Dept. of Botany, The American College, Madurai, held on Feb 26, 2015.

- ❖ Participated and Secured third place in Throw Ball “Plascia-2015” organized by Dept. of Botany, The American College, Madurai held on Feb 26, 2015.