

Dr. M. MANIKANDAN, M.Sc., M.Phil., Ph.D.

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Research Gate : <https://www.researchgate.net/profile/Manikandan-Shanthi>

EXPERIENCE : Mary Matha College, Theni – Biotechnology Department. (6 Months)

Sri Vidya Mandir Arts & Science College, Krishnagiri – PG Department of Zoology
Till Date.

EDUCATIONAL QUALIFICATION

S.No	DEGREE	DOMAIN	INSTITUTE NAME	UNIVERSITY	REMARKS
1.	Ph.D (2024)	Zoology	Loyola college Chennai	University of Madras	Highly Commendable
2.	M.Phil (2017)	Zoology	Loyola college Chennai	University of Madras	Distinction & Medalist
3.	M.Sc (2016)	Zoology	Govt. Arts College for Men, Nandanam	University of Madras	Distinction & Medalist
4.	B.Sc (2013)	Advanced Zoology & Biotechnology	R.K.M Vivekananda College, Chennai	University of Madras	Distinction & Medalist

THESIS/ PROJECT TITLE

Ph. D.

- ❖ Characterization and Biological significance of Biosynthesized Silver Nanoparticles (Ag Nps) Using Fish Scale Extract.

M.Phil.

- ❖ Studies on Evaluation of Poondi Lake and Its Impact on Bioindicator Fish *Oreochromis Niloticus*.

M.Sc.

- ❖ Production of Organic Manure from Leaf Substrates of *Azadirachta indica* and *Psidium guajava* by Using Friends of Farmers *Eudrilus eugeniae*.

BEST POSTER / ORAL PRESENTATION

- ❖ The **best oral presentation award** from Two days International conference at Loyola College, Chennai. From the Pg and research department of advanced zoology and biotechnology From 09.02.2025 and 10.02.2024 on Emerging Challenges In The Prevention And Control Of Vector Borne Diseases.

CERTIFICATION COURSE

- ❖ **Advance Course in Para Taxonomy** under the Green Skill Development Programme (GSDP) of the Ministry of Environment Forest and Climate Change, **Government of India, New Delhi.**
- ❖ **Diploma in Computer Application with 'A' Grade.**
- ❖ Field Technician and Computing Peripherals.

TECHNIQUES HANDLING

- ❖ Zoology Specimen Preservation, Fish Feed Preparation, Antibacterial Assay, Antifungal Assay, Anticancer Activity, Antioxidant Activity, Larvicidal Activity, Proximate Analysis Of Fish- Moisture Content, Ash Content, Protein Estimation, Carbohydrate Estimation And Lipid Estimation.
- ❖ SDS PAGE
- ❖ DNA/ Protein Isolation
- ❖ Histopathology – Staining Technique
- ❖ Isolation & Maintenance of Microbes
- ❖ Phytochemical Analysis/ Compound Isolation/ Paper, Column& Thin layer chromatography
- ❖ Nanoparticles Synthesis Process

INSTRUMENT HANDLING

- ❖ UV- Spectroscopy, Microplate Reader (ELIZA Plate Reader), Digital Balance, Centrifuge, Cooling Centrifuge, CO₂ Incubator, Rotary Shaker Incubator, Hot Air Oven, Micro Oven, Sonicator, Water Bath, Laminar Air Flow Chamber, UV Illuminator.
- ❖ Sterilization (Autoclave & Hot Air Oven Method)

OTHER INTEREST

- ❖ Data Collection, Field Survey, Field Visit, Sample Collection, Analysis of the Samples.
- ❖ Can Handle Research Projects (UG, PG and M.Phil)
- ❖ Carrier Guidance

ACCOMPLISHMENTS

- ❖ First Rank with Distinction in UG, PG and M.Phil.
- ❖ Illakkiya Mandra Thalaivar in R.K.M Vivekananda College 2013.
- ❖ Received Best Poster & Oral Presentation Awards.
- ❖ Received Awards in District level Quiz, Essay writing and Oratorical Competitions.
- ❖ Received Medals in an Inter and Intra Collegiate Competitions.
- ❖ Attended/ Conducted International & National level Workshop, Training and conferences.

HOBBIES

- ❖ Natural journaling and its digital illustration, Bird Watching, Horticulture, Reading & Learning about Nutrition, visit zoo & Aquarium, visit science related Museum and Writing a Tamil Poet.

PAPER PUBLICATIONS

- ❖ **Manikandan, M., & Kalaiaarasi, J. M. V. (2022).** Studies on Evaluation of Poondi Lake and Its Impact on Bioindicator Fish *Oreochromis Niloticus*. ***International Journal of Health Sciences***, 6(S5), 4033–4045.
- ❖ Pauline, M. C., Sangeetha, R., **Manikandan, M.**, Loganathan, P., & Kalaiaarasi, J. M. V. (2019). Myristica Fragrans (Nutmeg) Oil Mediated Silver Nanoparticle Synthesis, Characterisation and Its Antimicrobial Assessment. ***Uttar Pradesh Journal of Zoology***, 40(2), 54-59.
- ❖ Vijayaraj, R., & **Manikandan, M.** Jaqueline Chinna Rani, 2017 "An Ethanobotanical Survey of Loyola College Campus, Chennai, TamilNadu, India. ***International Journal of Current Research***, 9, (03), 48313-48317.
- ❖ Venkadesh B, Bharathkumar **A**, Anuanandhi K, **Manikandan, M.** A Study on the occurrence of white spot syndrome (WSSV) in *Scylla seratta* (Forsskal, 1775) around Kasimedu, Vanagaram, Amjikai. (***International Journal of Entomology Research***).
- ❖ Vijayaraj, R., & **Manikandan, M.** Production of Organic Manure from Leaf Substrates of *Azadirachta indica* and *Psidium guajava* by Using Friends of Farmers *Eudrilus eugeniae*. ***Convergence*** (ISSN 0972 – 6489).

FACULTY DEVELOPMENT /WORKSHOPS/ CONFERENCES/ TRAINING ATTENDED

- ❖ Five days **faculty development program** on recent trends in life sciences research from **19.08.2024 to 23.08.2024** organized by the department of electronics and communication engineering, medical electronics, pharmaceutical technology at **GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY Chennai .-online**
- ❖ **Two days International conference at Loyola College, Chennai.** From the Pg and research department of advanced zoology and biotechnology **From 09.02.2025 and 10.02.2024** on Emerging Challenges In The Prevention And Control Of Vector Borne Diseases.
- ❖ **Two days International conference at Sri vidya Mandir Arts and Science College, Katteri** from the PG department of Botany on Life Sciences With Future Perceptive On World Challenges And Developments.

- ❖ **Conducted Summer Internship Program 2018 on “Microbiology, Molecular Biology and Research Design.”** LIFE, Loyola College, Chennai.
- ❖ Participated in **Global Initiative Academic Networks Course “Cancer Theronosrics”** 2019 in Jawaharlal Nehru Technological University, **Hyderabad.**
- ❖ **AYUSH sponsored National workshop 2017** on “Scientific Validation, Development and Promotion Of Siddha Medicine.” organized by AU-KBC Research Center, MIT campus, Anna university, Chennai.
- ❖ **National workshop 2017** on “Molecular & Chromatographic Techniques.” Conducted by Environmental toxicology and biotechnology, LIFE, **Loyola college, Chennai.**
- ❖ **Participated in two days Training programme** on “Molecular Modelling in Drug Design”. 29& 30 March, 2019. Organized by DBT Funded Bioinformatics Infrastructure Facility, **Madras Christian College, East Tambaram, Chennai.**
- ❖ **Participated in the 3 days workshop** on “Fundamentals and Applications of Nanoscience and Nanotechnology” organized by Science City and National Centre for Nanoscience and Nanotechnology, **University of Madras, from 23rd to 25th January 2019, at the Science City Auditorium, Chennai – 25.**
- ❖ **Participated in ATC-LIVE (2018) (Animal Tissue Culture Workshop)** training in “Animal Tissue Culture” held at **Pachaiyappa’s College, Chennai-30**, on 24th and 25th September 2018.
- ❖ **Participated in “Fruits and vegetable processing” training** conducted by Central Palmgur & Palm Products Institute. 2016 **Ministry Of MSME, Government Of Tamilnadu, Chennai.**
- ❖ **Participated in three days training on “Feed formulation and preparation for brackish water fishes”** conducted by Madras Christian college, Tambaram. **Organized by Pradhan Mantri Matsya Sampada Yojana 2022.**

PERSONAL DETAILS

Residential Address :

No: 3/45 Aanjaneyar kovil street, Kuthambakkam, Poonamallee Taluk, Thiruvallur District,
Pin code – 600 124.

DECLARATION

Hereby, I declare that the above information is true and genuine as per the certification.

Yours Sincerely,

(M. Manikandan)