

## PROFILE



**1. Professional Summary :** DR. R.MANONMANI, Assistant Professor of Botany

**2. Qualification :** M.Sc., M.Phil., Ph.D

### 3. Educational Qualification

Degree	Subject	Institution/University	Year of Passing
Ph.D (Part Time)	Botany	Holy Cross College (Autonomus) Tiruchirappalli-620 002. Bharathidasan University	2015
M. Phil. (Regular)	Botany	St.Joseph's College (Autonomus) Tiruchirappalli-620 002. Bharathidasan University	2007
M.Sc. (Regular)	Botany	Holy Cross College (Autonomus) Tiruchirappalli-620 002. Bharathidasan University	2006
B.Sc. (Regular)	Botany	Holy Cross College (Autonomus) Tiruchirappalli-620 002. Bharathidasan University	2004
HSC	Math, Phy, Che & Bio	SVS Hr.Sec. School Tiruchirappalli	2001
SSLC	General	SVS Hr.Sec. School Tiruchirappalli	1999

#### 4. Teaching Experience

- Working as an Assistant Professor in PG and Research Department of Botany, Holy Cross College, Trichy from 1<sup>st</sup> July 2009 to till date. (Holy Cross College (Autonomous) Tiruchirappalli-620 002, TamilNadu, India)
- Teaching Experience : 15 Years

#### 5. Subjects of Expertise

Plant diversity, Cell and Molecular Biology, Plant Anatomy, Developmental Biology, Taxonomy, Plant Physiology, Plant Biotechnology, Biostatistics and Environmental Biotechnology.

#### 6. Title of M. Phil Thesis

Biochemical composition, antimicrobial activity and protective role of *Foeniculum vulgare* Mill. in myocardial disorder.

#### 7. Title of Ph. D Thesis

Studies on Sporophytic and Gametophytic Phases of an important Medicinal Fern *Actiniopteris radiata* (Swartz) Link.

#### 8. Areas of Specialization

- Phytochemistry
- Fern Tissue Culture

#### 9. M.Phil Guided

One

#### 10. Technical Skill

HDCA (Honours Diploma In Computer Applications)

#### 11. Prizes

- **Bachelor of Science:**
  - ❖ College Management Prize for General **Tamil, First Prize**, 2002 (1<sup>st</sup> Year).
  - ❖ College Management Prize for General **Tamil, First Prize**, 2003 (2<sup>nd</sup> Year).
- **Master of Science:**
  - ❖ Dr. RM. Meenakshi Endowment Prize for **Proficiency in Botany, First Prize**, 2005.
  - ❖ College Management Prize for **Proficiency in Botany, First Prize**, 2006.

## 12. Medals

- ❖ Sr. Anne Xavier Endowment **Gold medal** for Major (BOTANY), **M.Sc., Year (2004-2006)**.

## 13. Awards and Recognition

- ❖ Young Researcher of the Year Award (September 2022)- Avishkar Achievers Award 2022, Avishkar Achievers Foundation, Solapur.
- ❖ Certificate of Excellence in Peer-Reviewing- In recognition of an outstanding contribution to the quality of the book, B P- International, 13<sup>th</sup> December 2023.
- ❖ Certificate of Excellence in Reviewing- In recognition of an outstanding contribution to the quality of the journal, Asian Research Journal of Gynaecology and Obstetrics, 23<sup>rd</sup> December 2023.
- ❖ Certificate of Excellence in Peer-Reviewing- In recognition of an outstanding contribution to the quality of the book, B P- International, 29<sup>th</sup> February 2024.

## 14. E-lessons

- ❖ MITOSIS AND ITS SIGNIFICANCE
- ❖ DOUBLE FERTILIZATION
- ❖ GENETIC CODE
- ❖ PROTEIN SYNTHESIS IN PLANTS

## 15. NPTEL – SWAYAM Course

- NPTEL Online course funded by Ministry of HRD, Govt. of India – 8 week course (July- September 2022) on “Organic Farming for Sustainable Agricultural Production”

## 16. Orientation/Refresher Courses/ FDP

- ❖ Orientation Programme, University grants commission, Ministry of Education, Teaching Learning Centre, Ramanujan College, University of Delhi, 20.04.2022 to 19.05.2022.
- ❖ UGC sponsored Tenth online Faculty induction Programme University grants commission Human Resource Development Centre, Bharathidasan University, Tiruchirappalli, 01.06.2022 to 30.06.2022.

- ❖ UGC sponsored Online Refresher Course in Botany, University grants commission Human Resource Development Centre, Madurai Kamaraj University, Madurai, 02.11.2022 to 15.11.2022.

## 17. In-service Programme

- Two days “In-Service Teacher Training Programme in Life Sciences” Sponsored by TANSICHE, H.H.The Raja’s College (Autonomous), Pudukkottai-622 001, 05.05.2022 & 06.05.2022.

## 18. Book/Book Chapters Publication

- ❖ The Book Chapters (Biology- Unit-16 to 19) in “S.G.S. Science Q & A Book for 10<sup>th</sup> Standard” Tamil Nadu State Board New Syllabus 2023-24 Edition.
- ❖ A Book Allied Botany- Practicals for Allied Botany Courses (B.Sc Zoology students), All the Universities, India. 2024.

## 19. Paper Publications

1. MANONMANI, R. AND FRANCISCA, P. 2011. *In vitro* Propagation of *Wattakaka volubilis* Benth. Ex Hook F. from nodal explants. *Asian Journal of Microbiol. Biotech. Env. Sci.* Vol. 13, No. (4): 669-672.
2. MANONMANI, R. AND MOHIDEEN ABDUL KHADIR, V. 2011. Antibacterial Screening on *Foeniculum vulgare* Mill. *International Journal of Pharma and Bio Sciences.* Vol.2, No. (4): 390-394. **IF: 0.47**
3. MANONMANI, R. 2011. Antibacterial Evaluation and Phytochemical Analysis of the seed extract of *Foeniculum vulgare* Mill. *Journal of Pharmacy Research.* Vol.4 (11): 4035-4037. **IF: 2.36**
4. MANONMANI, R. AND FRANCISCA, P. 2012. *In vitro* Multiplication of *Gymnema sylvestre* R. Br. Through nodal explants. *International Journal of Pharma and Bio Sciences.* Vol. 3, No.2: 49-53. **IF: 0.47**
5. KANAGA, A. MUNIYAMMAL, P. AND MANONMANI, R. 2012. Suppressive Effects of Aqueous Extracts of Neem (*Melia Azadirachta* L.) on Some Initial Growth Parameters of Cow Pea & Horse Gram. *Journal of Applied Pharmaceutical Science.* Vol. 2, No. (5): 185-187.
6. FEMINA, D.LAKSHMIPRIYA, P. SUBHA, S. AND MANONMANI, R. 2012. Allelopathic Effects of Weed (*Tridax procumbens* L.) Extract on Seed Germination and Seedling Growth of Some Leguminous Plants. *International Research Journal of Pharmacy,* Vol. 3, No. (6): 90-95.

7. MANONMANI, R. AND CATHARIN SARA, S. 2013. Preliminary phytochemical analysis of *Actiniopteris radiata* (Swartz) Link. ***International Research Journal of Pharmacy***, Vol. 4, No. (6): 214-216.
8. MANONMANI, R. AND CATHARIN SARA, S. 2014. *In vitro* early ontogenic studies of *Actiniopteris radiata* (Swartz) Link. under different medium. ***International Journal of Pharma and Bio Sciences***. Vol. 5, No.1: 483-491. **IF: 0.67**
9. MANONMANI, R. AND CATHARIN SARA, S. 2015. GC-MS analysis of bioactive components of an important medicinal fern *Actiniopteris radiata* (Swartz) Link. ***World Journal of Pharmaceutical Research***. Vol. 4(4): 1860-1869. **IF: 5.045**
10. MANONMANI, R. AND CATHARIN SARA, S. 2016. HPLC finger prints of phenolic compounds present in *Actiniopteris radiata* (Swartz) Link. ***European Journal of Pharmaceutical and Medical Research***. 3(6): 435-438. **IF: 3.628**
11. MANONMANI, R. AND MEKALA, R. 2016. Pollen morphology, viability, germination and tube growth of some plant species. ***World Journal of Pharmaceutical Research***. Vol. 5(7): 697-706. **IF: 6.805**
12. MANONMANI, R. CATHARIN SARA, S. REVATHI M. AND BASHEERA BEGUM A. 2018. Phytochemical profiling of *Nigella sativa* L. ***World Journal of Pharmaceutical Research***. Vol. 7(19): 1376-88. **IF: 8.074**
13. REVATHI. M, CATHARIN SARA, S., R. MANONMANI AND CLAUDIO MEDOONA RIGLEY (2019). Fourier Transform Infra red Spectroscopic analysis of ethanolic leaf extract of *Alternanthera sessilis* (L.) and *Trigonella foeniculum* (L.) ***Indian Journal of Applied Research***. Vol.9(2): 1-2, **IF:5.397**
14. MANONMANI, R. AND KAVIYA, K. 2019. Phytochemical Screening and GC-MS Analysis of *Ocimum tenuiflorum* L. Leaves. ***Indian Journal of Applied Research***. Vol.9(8): 46-49, **IF:6.03**
15. MANONMANI, R. AND KAVIYA, K. 2019. Evaluation of Antimicrobial Activity in the leaves extract of *Ocimum tenuiflorum* L. ***Indian Journal of Applied Research***. Vol.9(8): 73-74, **IF:6.03**
16. MANONMANI, R. and REVATHI, M. 2023. Phytochemical and Pharmacological Activities of *Tribulus terrestris* L. ***World Journal of Pharmaceutical Research***. Vol. 12(7): 693-700. **IF: 8.084.**
17. REVATHI, M. and MANONMANI, R. 2023. GC-MS Analysis of Ethanolic Seed Extract of *Hygrophilla auriculata* (Schum) Heine. ***Global Journal for Research Analysis***. Vol. 12(7): 1-3. **IF: 5.956.**
18. AUXILLIYA, A. REVATHI, M. MANONMANI, R. AND ASHA MONICA, A. 2023. Evaluation of Phytochemical, Antibacterial and Antioxidant Analysis of *Linum*

*usitatissimum* L. Seed Extract. **International Journal of Pharmaceutical Sciences and Research**. Vol. 14(9): 4630-4635.

19. REVATHI, M. MANONMANI, R. and Sowmiya, V. 2024. Phytochemical Analysis and Antioxidant Activity of *Nelumbo nucifera* Gaertn. **World Journal of Pharmaceutical Research**. Vol. 13(7): 1035-1041. **IF: 8.453**.
20. MANONMANI, R. JAYAPRIYA, M. and SOSHINA ISWARYA, G. 2024. Phytoconstituent Analysis of *Cocculus hirsutus* L. by GC-MS, FT-IR and UV-VIS **International Journal of Pharma and Bio Sciences**. Vol. 15(3): b1-8.

## 20. Seminars and Workshop

- Training Program on “Effective Leadership Skills”, “Effective Communication Skills” & “Presentation Skills” at Holy Cross College, June, 2003.
- State Level “Author Workshop” at St. Joseph’s College, Trichy, September, 2006.
- “Regional Conference on Fern Diversity of India” at St. Joseph’s College, Trichy, February, 2007.
- Two days National level Seminar on Advances in Biological Sciences (Sponsored by UGC) at Dep. of Botany, Holy Cross College (Autonomous), Trichy, February (25<sup>th</sup> & 26<sup>th</sup>) 2011.
- Two days National Level Workshop on “Advances in Medicinal Plant Biology and Toxicology 2012- AMPBT 12” at Prist University, Thanjavur, June 2012.
- Two days Workshop on “Plant Biology For PG Assistants” at PG and Research Department of Botany, Holy Cross College (Autonomous), Trichy, August 2013. (**Resource Person**).
- Three days Workshop on “Basics of Bioinformatics and CADD” at DBT – BIF Centre, Holy Cross College (Autonomous), Trichy, August 2014.
- Two days National level certificate program on “Good laboratory practices (GLP) & Intellectual Property Rights (IPR) in biosciences” at PG and Research Department of Zoology, Holy Cross College (Autonomous), Trichy, February, 2015.
- Two days Science Academy Lecture Workshop on “Bioprospecting and Bioresources” (Sponsored by IASc, Bengaluru INSA, New Delhi, The National Academy of Sciences, Alahabad) at St. Joseph’s College, Trichy, February (10<sup>th</sup> & 11<sup>th</sup>) 2016.
- A State level two day workshop on “Plant Tissue Culture, Agrobacterium mediated transformation in plants and Nanotechnology” PG & Research

Department of Botany, Holy Cross College (Autonomous), Trichy, 28<sup>th</sup> and 29<sup>th</sup> August 2018.

- International Conference on “New Vista in Life Science” PG Department of Biochemistry, Holy Cross College (Autonomous), Trichy, 11<sup>th</sup> September 2018.
- National seminar on “Scientific Research and Education in Today’s Scenario” PG & Research Department of Botany, Holy Cross College (Autonomous), Trichy, 13<sup>th</sup> and 14<sup>th</sup> February 2019.
- National seminar on “Microbes in Women Health” Department of Microbiology, Bharathidasan University, Tiruchirappalli, 11<sup>th</sup> and 12<sup>th</sup> July 2019.
- State level two day workshop on “Biochemical Characterization of Bacterial Pathogens, Antibacterial Studies and Permanent Slide Preparation” PG & Research Department of Botany, Holy Cross College (Autonomous), Trichy, 21<sup>st</sup> and 22<sup>nd</sup> August 2019. (**Resource Person**).
- National Seminar on “Bio Innovations” PG & Research Department of Botany, Holy Cross College (Autonomous), Trichy, 10<sup>th</sup> March 2020.
- HCCares webinar series on ‘Seed and Weed Nurturing relationships’, Holy Cross College (Autonomous), Trichy. (online), 2<sup>nd</sup> June 2020.
- A Two day Webinar on “MOSSBAUER SPECTROSCOPY - ELUCIDATION OF MAGNETIC COMPOUNDS IN BIOLOGICAL SYSTEM” PG & Research Department of Botany St. Mary’s College (Autonomous), Thoothukudi. (online) 3<sup>rd</sup> June 2020.
- Webinar on Menstrual hygiene and Reproductive Health Care, HCC Alumnae Association, Holy Cross College (Autonomous) Trichy-2. (online) 3<sup>rd</sup> June 2020.
- Webinar on “Social Innovation and Change Management, IIC (Institutions Innovation Council), Holy Cross College (Autonomous), Trichy. (online) 5<sup>th</sup> June 2020.
- Webinar on ‘Obesity and its role in Breast cancer’, CICRSD, Holy Cross College (Autonomous), Trichy (Online) 06.06.2020.
- Webinar on ‘Discover your values: COVID 19, Dept. of Value Education, Holy Cross College (Autonomous), Trichy (Online) 10.06.2020.
- A one day webinar on ‘Biodiversity – Urgent and Existential Concerns’ PG & Research Department of Botany St. Mary’s College (Autonomous), Thoothukudi (online) 10.06.2020.
- International online seminar on “Natural Products for Health Management” Department of Botany Periyar University Constituent College of Arts and Science, Harur, Dharmapuri (Online) 10-16th June 2020.

- Webinar Series-II on STRIDE Tutorial on Transdisciplinary Research RUSA, Dote Campus, Chennai-25 (online) 11.06.2020.
- Faculty Orientation webinar series on 'Risk Management in Times of Crisis' IQAC, Holy Cross College (Autonomous), Trichy (online) 12.06.2020.
- National Level Webinar on "Dissemination of Knowledge on Medicinal Plants through Doctrine of Signatures" Department of Botany Holy Cross College (Autonomous), Nagercoil (Online) 16.06.2020.
- Webinar on 'In vitro production of secondary metabolites' PG and Research Dept. of Botany, Holy Cross College (Autonomous), Trichy (Online) 16.06.2020.
- Webinar on 'Protecting research inventions through Intellectual Property Rights' PG and Research Dept. of Botany, Holy Cross College (Autonomous), Trichy (Online) 17.06.2020.
- National Level Webinar on "HEALTHY FOOD AGAINST COVID 19" Post Graduate & Research Department of Botany, Queen Mary's College, Chennai (Online) 19-06-2020.
- National Webinar on "Corona: Immunity and Ayurveda" Department of Botany and Zoology, Sree Ayyappa College for Women, Chunkankadai (Online) 20-06-2020.
- Webinar on 'Combat the pandemic stress through Yoga' Holy Cross College (Autonomous), Trichy (online) 21.06.2020.
- National Level Online FDP on "Digital Skills for Smart Teaching" Raja Doraisingam Govt. Arts College Alagappa University, Karaikudi (Online) 22-23 June 2020.
- International Webinar on 'Biodiversity and Climate Change: An Intimate Dynamic Relationship' PG & Research Dept. of Botany, V. O. Chidambaram College, Thoothukudi (online) 24.06.2020.
- Webinar on "Funding Opportunities in Biotechnology" PG and Research Department of Biotechnology and Bioinformatics (Online) 27.06.2020.
- One week online International Faculty Development Program (FDP) on "Artificial Intelligence and IoT- Heuristic Transdisciplinary perspectives" CICRSD, Holy Cross College (Autonomous), Trichy (Online) 4-10th July 2020.
- International webinar on 'Phytochemicals as an antioxidant alternate to combat MDR' PG and Research Dept. of Botany, Holy Cross College (Autonomous), Trichy (Online) 16.07.2020.



- National webinar on ‘Diversity and distribution of Pteridophytes in India’ PG and Research Dept. of Botany, Holy Cross College (Autonomous), Trichy (Online) 06.08.2020.
- Webinar on “The Implications of the NEP 2020 for Higher Education and Role of Teachers” IQAC, Holy Cross College (Autonomous), Tiruchirappalli (Online) 25.08.2020.
- International webinar on ‘Bioremediation of Polluted soils for Sustainable Development’ Department of Biotechnology (DBT Sponsored STAR department), Ayya Nadar Janaki Ammal College, Sivakasi. (Online) 29.8.2020.
- National webinar on ‘Marine Bio-prospecting’ PG and Research Dept. of Botany, Holy Cross College (Autonomous), Trichy (Online) 06.10.2020.
- Webinar on ‘Addressing Challenges in Higher Education through the OBE mode’ IQAC, Holy Cross College (Autonomous), Trichy (online) 04.01.2021.
- National Level Faculty Development Programme on “Reimagining Plant Sciences for Sustainable Future- Opportunities and Challenges” PG & Research Department of Botany, Holy Cross College (Autonomous) Tiruchirappalli-2, 2<sup>nd</sup> to 6<sup>th</sup> August 2021.
- National Seminar on “Phytomedicine and Nanomaterials in Plant Sciences” PG and Research, Department of Botany, Holy Cross College (Autonomous), Trichy on 15<sup>th</sup> & 16<sup>th</sup> December 2022.
- One day Conference on “Challenges and Opportunities in Life Sciences” organized by the School of Life Sciences. Holy Cross College (Autonomous), Trichy on 15<sup>th</sup> February 2023.
- One day international symposium on “Microbiome & Transformative Biology: Exploring The Future of Life Sciences”, PG & Research Department of Botany, Holy Cross College (Autonomous), Trichy on 30<sup>th</sup> August 2024.

## **21. Extracurricular Activities**

- Participated on National Service Scheme (NSS) and attended 10 Days Camp programme at Thiruvellarai village, Trichy. (03/06/2002 to 12/06/2002).
- NSS Programme Officer (PO)- Two Years (2022-2024)

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