

Dr. T. ROHINI

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Madurai

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ACADEMIC QUALIFICATIONS

Doctoral Research- Ph.D

University : Madurai Kamaraj University, Madurai, India.
Year : 2022.

Master of Philosophy:

College : Lady Doak College, Madurai.
Aggregate : 86.2%
University : Madurai Kamaraj University, Madurai, India.
Year : 2013.

Master of Science:

College : Lady Doak College, Madurai.
Aggregate : 73%
University : Madurai Kamaraj University, Madurai, India.
Year : 2012.

Bachelor of Science:

College : Ayya Nadar Janaki Ammal College, Sivakasi.
Aggregate : 78.2%
University : Madurai Kamaraj University, Madurai, India.
Year : 2010.

Higher Secondary School:

School : R.C.L. F Girls Hr Sec School, Usilampatti,
Aggregate : 71.2%
Year : 2007.

SSLC:

School : T.E.L.C Girls Hr Sec School, Usilampatti,
Aggregate : 89.2%
Year : 2005.

Additional Diplomas / Certificate Courses:

- ✓ Completed 3 Months (January- April,2024) Certificate course Offered by **NPTEL- Enzyme Science and Technology**.
- ✓ Completed **Certificate Course in Biotechnology**, Ayya Nadar Janaki Ammal College, Sivakasi-2007.
- ✓ Completed **Advanced Diploma in Biotechnology**, Ayya Nadar Janaki Ammal College, Sivakasi- November 2009, First class with special Distinction.

HANDS ON EXPERIENCE ON:

- Microbiological Techniques.
- Molecular techniques - PCR, Cloning and Transformation, AGE, PAGE.
- Enzymology- Expression and purification of protein.
- Nanotechnology-Synthesis of Nanoparticles& Characterization.
- Plant tissue culture techniques.
- Chromatographic techniques- TLC, HPLC, Column chromatography.

ACADEMIC PROFECIENCY:

- ☞ Oral Presentation entitled “**Optimization of various nutrient media for Tannase and Gallic acid production by *Aspergillus niger* using banana flower stock as substrate**”.International Conference on Translational Research in Drug Discovery and Development for sustainable healthcareOrganised by Department of Drug Discovery, Sathyabama University, Chennai, Tamilnadu, **3rd -5th May 2023**.
- ☞ Oral presentation on “**Potential application of extracellular cellulase purified from *Stenotrophomonas maltophilia***”. International conference on Converging Microbiological Innovation for Application in Animal, Plant, Environment and Health Care (ICCMIA, Organized by School of Animal Sciences, ManonmaniamSundaranar University, Thirunelveli, Tamilnadu, **27 & 28 January 2023**.
- ☞ Oral Presentation on isolation and “**Characrterization of Cellulolytic Microorganisms from Termites**” in Internaltional Conference onConstoriumof Universal Research Erudition (iCURE) at Madurai Kamaraj University Madurai, on **03-06th February 2023**.
- ☞ Participated in **CME on Molecular Immunology** sponsored by Indian Immunolgy Society, New Delhi, Organised by School of Biotechnology, Madurai Kamaraj University, Madurai on **4th February 2023**.
- ☞ Poster presentation titled “**Characterization of Extracellular cellulase produced by *Stenotrophomonas maltophilia* using alkali pretreated rice straw production medium**”. National conference on Innovations in Biotechnology, Organized by School of Biotechnology, Madurai Kamaraj University, Madurai, Tamilnadu, **14th & 15th December 2017**.

- ☞ Poster Presentation titled “**Production and characterization of an Extracellular cellulase using Alkali pretreated Rice straw by *S.maltophilia***”. International Conference on Environment, Genes, Health and Diseases (EGHD 2017), Organized by, Department of Human Genetics and Molecular Biology, Bharathiar University from August **22nd to 24th, 2017** Coimbatore.
- ☞ Participated in **Three days National Level CME cum Seminar On Basics of immunology and its Clinical applications Organised by School of Biotechnology, Madurai Kamaraj University, Madurai, on 08-10th March 2017.**
- ☞ Oral Presentation entitled “**Enzymatic degradation of cellulose to fermentable sugars by the *Streptomyces* isolates from bio-gas plant**” in An International conference on "Natural resources and conservation" Organized by Nehru Memorial College, Trichy, Tamilnadu **17th September 2016.**

Resource Person:

S.No	Date	Name of the Programme/ Title	Name of the Institution
1.	27.03.2024	One Day Workshop on “Lab Management and Bio Safety Measures” for Lab Assistants and “Microbial Pure Culture Techniques” for Zoology students under DBT Star College Scheme.	G.T.N Arts College, Dindigul.
2.	04.08.2023	Clinical and Translational Research Conference- CTRON 2023. (Jury member for poster presentation).	Alpha Hospital & Research Centre, Madurai.

Funds/ Grants Received from Funding Agency:

S.No	Funding Agency	Sanctioned Amount	Month& Year	Event
1.	IIS (Indian Immunology Society)	Rs 10,000/-	April-2023	Celebration of International Day of Immunology at Mannar Thirumalai Naicker College.
2.	IIS (Indian Immunology Society)	Rs 10,000/-	April-2024	Celebration of International Day of Immunology In association With TNSF (Tamilnadu Science Forum) for School childrens at Thulir Science Center, Thirumangalam.

Geust Lectures and Workshops Organised:

- ☞ Acted as Convener and Organizing Secretary for the Guest Lecture on “Science for Sustainable Future” in view of National Science Day, Organized by Department of Microbiology, Mannnar Thirumalai Naicker College, Pasumalai, and Madurai on 28th February-2024.
- ☞ Acted as Convener and Organizing Secretary for the Guest Lecture on “NPTEL- A Guide for Strengthening Online Learning” Organized by Department of Microbiology, Mannnar Thirumalai Naicker College, Pasumalai, Madurai on 1st February-2024.
- ☞ Acted as Convener and Organizing Secretary for the Hands- on Training on “Exploring the Microbial World Through the Eyes of a Foldscope” Jointly Organized by Science and Communication Club and Department of Microbiology, Mannnar Thirumalai Naicker College, Pasumalai, Madurai on 19th January-2024.
- ☞ Acted as Convener and Organizing Secretary for the Celebration of “World AIDS Day- 2023” Organized by Department of Microbiology, Mannnar Thirumalai Naicker College, Pasumalai, and Madurai on 20th December-2023.
- ☞ Acted as Convener and Organizing Secretary for the Celebration of “Environmental Day- 2023” Organized by Department of Microbiology, Mannnar Thirumalai Naicker College, Pasumalai, Madurai on 27st June-2023.
- ☞ Acted as Convener and Organizing Secretary for the event “Chromatography- Hands on Training” Organized by Department of Microbiology, Mannnar Thirumalai Naicker College, Pasumalai, Madurai on 31st January-2023.
- ☞ Acted as Convener and Organizing Secretary for the event “One Day Workshop on Molecular Techniques” Organized by Department of Microbiology, Mannnar Thirumalai Naicker College, Pasumalai, Madurai on 22nd February-2023.

Seminars/ Workshops/ Conferences/ Symposium Attended:

- ☞ Participated in One Day Workshop on Plant Tissue Culture Techniques, organised by Sri Kaliswari College, Sivakasi on 23rd August 2023.
- ☞ Participated on One day Seminar on “**Clinical Proteomics and Proteomics Day Celebration**” Held on 18th March 2017, at Aravind Medical Research Foundation, Madurai.
- ☞ Participated and be a part of organizing team in the three days National level CME cum Seminar on “**Basics of Immunology and Its Clinical Applications**” Organized by School of Biotechnology, Madurai Kamaraj University, Madurai from 8th to 10th March 2017. This CME cum Seminar has been accredited with 10 credit points by Tamilnadu Dr.MGR Medical University.
- ☞ Participated and be a part of organizing team in the One-day World Immunology Day Celebrations Organized by School of Biotechnology, Madurai Kamaraj University, Madurai on 29th April 2017.
- ☞ Participated in One Day Seminar on **Immunotherapeutics and Diagnostics** Conducted by **Department of Molecular Microbiology**, School of Biotechnology, Madurai Kamaraj University, Madurai, on 5th October-2015.
- ☞ Participated in Awareness programme on “**Biosafety & Bioethics**”, Lady Doak College, Madurai- 8th Feb 2012.

- ☞ Participated in one day workshop on **Intellectual property rights (IPR)**”, Lady Doak College, Madurai-8th Feb 2011.
- ☞ Participated in One day training on **Vermicomposting** in Agriculture college and Research Institute, Madurai-4th Jan 2011.
- ☞ Attended “**On the Job Training Programme in Cytogenic Techniques**”, at Bharathiar University, Coimbatore held on June 3rd to 12th, 2009.
- ☞ Participated in Intercollegiate **Green Wave Celebration on Biodiversity**- Conservation and Management -13th&14th Aug, 2010.
- ☞ Attended Two-day **workshop on Technology Enhanced Learning**, Ayya Nadar Janaki Ammal College, Sivakasi- 21&22 December, 2009.

FACULTY DEVELOPMENT PROGRAM:

- ☞ Attended Faculty Enhancement Program on Consultancy and Corporate Training organized by Mannar Thirumalai Naicker College, on 17th March 2023.
- ☞ Attended One Week International Faculty Development Program on “Intellectual Property Rights & Research Innovations in Biological Sciences (IPribs-24)” 25th – 31st May, 2024 Organized by the PG Department of Microbiology in Association with the Research & Development cell and IQAC, Syed Ammal Arts and Science College, Ramanathapuram.

PAPER PUBLICATIONS:

Tamilanban Rohini, Rajadas Sam Ebenezer, Harshavardhan Shakila. Direct degradation of cellulosic biomass to fermentable sugars by the cellulolytic isolates from biogas plant”, Journal of Emerging Technology and innovative Research, 6(6), 513-528, 2019.

Rohini Tamilanban, Sam Ebenezer Rajadas, Vignesh Sounderrajan, Shakila Harshavardhan. “Immobilization of thermostable, bacterial cellulase from *Stenotrophomonas maltophilia* in agar-agarose matrices and its characterization”, International Journal of Biosciences. 13(3), 198-208, 2018.

Rohini T, Sajeetha Santhi V, Saranya S, Sam Ebenezer R, Shakila H,. "Optimization of AFEX Pretreated Agrowaste Media for Endoglucanase and Xylanase Production by *Stenotrophomonas maltophilia*", International Journal for Research in Applied Science and Engineering Technology, 5(12), 2361-2374, 2017.

Rohini Tamilanban, Satheesha Santhi Velayudhan, Sam Ebenezer Rajadas, Shakila Harshavardhan. “Purification and characterization of an extracellular cellulase produced using alkali pretreated rice straw by *Stenotrophomonas maltophilia*”, International Journal of Biology Research, 2(4); 45-54. 2017.

Rohini Tamilanban, Sam Ebenezer Rajadas, Vignesh Soundarajan, Shakila Harshavardhan. "Optimization of Production Media for Tannase and Gallic acid Production Using Banana Flower Stalk as Substrate". Submitted to **Asain Journal of Agriculture and Development**. (Under Review).

BOOK CHAPTERS PUBLISHED:

Sam Ebenezer Rajadas, **Rohini Tamilanban** *et al.*, "Biomaterials and Recent Advancements in Tailoring Approaches"- Translational Research in Biomedical Sciences: Recent Progress and Future Prospects- Chapter No-33- **Springer Nature**. (Accepted). July-2023.

Saranya Somasundaram, **Rohini Tamilanban**, Vignesh Soundarajan. Biofilm: A bane to the food industry and its control measures. Translational Research in Biomedical Sciences: Recent Progress and Future Prospects. **Springer Nature**. (Accepted). September-2023.

Vignesh Soundarajan, Sam Ebenezer Rajadas, **Rohini Tamilanban**, Shakila Harshavardhan. Host Directed Immunotherapy for Tuberculosis. Translational Research in Biomedical Sciences: Recent Progress and Future Prospects. **Springer Nature**. (Accepted). November-2023.

Shakila Harshavardhan, Vignesh Soundarajan, Sam Ebenezer R and **Rohini Tamilanban**. Emerging concepts in the field of Vaccine adjuvants. Translational Research in Biomedical Sciences: Recent Progress and Future Prospects. **Springer Nature**. (Accepted). December-2023.

Management Skills:

- ✓ Acted as an organizing committee member in two national seminars, CME Programme and one state level seminar.
- ✓ Resource person for National Children's Science Congress.

Academic Experiences:

- ☞ Handled M.Sc., Biotechnology classes and projects in School of Biotechnology, Madurai Kamaraj University.
- ☞ Worked as an Assistant professor in G.T.N Institute of paramedical and Allied Health Science, Dindigul, from August-2019 to August 2022.
- ☞ Working as an Assistant professor, in Department of Microbiology, Mannar Thirumalai Naicker College, Madurai from December 5-2022 to till date.

PROJECTS CARRIED OUT:

Ph.D. – Production, Purification and Characterization of cellulase from *S. maltophilia* and its applications.

M.Phil. - Optimization of various nutrient media for production of Tannase and Gallic acid by fungal isolates using banana flower stalk as substrate.

M.Sc.- Production of wine from the edible fruits of *Vitis vinifera* L., *Malus Domestica* Borkh., *Carica papaya* L., *Manilkara Zapota*L., using *Saccharomyces* Sp.

PAPER SETTERS/ EXAMINER SHIP IN OTHER INSTITUTIONS

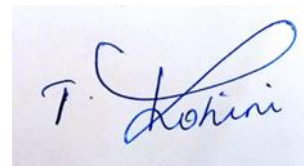
- ☞ THE MADURA COLLEGE, MADURAI.
- ☞ A.V.S COLLEGE OF ARTS AND SCIENCE, SALEM.
- ☞ ALAGAPPA UNIVERSITY, KARAIKUDI.

Membership in Academic Bodies:

LIFE MEMBERSHIP IN INDIAN IMMUNOLOGY SOCIETY (IIS) (MEMBERSHIP NUMBER: - LM/IIS/1030/12/23).

PERSONAL DETAILS:

Name : Dr.T.Rohini
Date of Birth : 13.06.1990
Father's Name : N.Tamilanban
Spouse Name : N. NagaKumar.
Nationality : Indian
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4/154 Abdhul Kalam Nagar,
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