

**T. ROHINI**

**Madurai**

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**OBJECTIVE**

To obtain a position that will enable me to use my strong organizational skills, educational background, and ability to work well with people.

**EDUCATION**

<b>YEAR &amp; DEGREE</b>	<b>UNIVERSITY/BOARD</b>	<b>NAME OF THE INSTITUTION</b>	<b>AGGREGATE</b>
<b>Ph.D., Microbiology (2014-2021)</b>	Madurai Kamaraj University	Madurai Kamaraj University	Awarded.
<b>2013 M.Phil., Microbiology</b>	Madurai Kamaraj University	Lady Doak College, Madurai	86.2%
<b>2010-2012 M.Sc.,Microbiology</b>	Madurai Kamaraj University.	Lady Doak College, Madurai.	73%
<b>2007-2010 B.Sc., Microbiology</b>	Madurai Kamaraj University	Ayya Nadar Janaki Ammal college, Sivakasi.	78.2 %
<b>2007 Higher Secondary</b>	TN State Board Of Hr.Secondary Education	R.C.L.F Girls Hr Sec School, Usilampatti	71.2%
<b>2005 SSLC</b>	TN State Board Of Secondary Education	T.E.L.C Girls Hr Sec School, Usilampatti	89.2%

### Additional Diplomas:

- ☞ 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 Nanoparticals& 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 healthcare Organised by Department of Drug Discovery, Sathyabama University, Chennai, Tamilnadu, 3<sup>rd</sup> -5<sup>th</sup> 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, Manonmaniam Sundaranar University, Thirunelveli, Tamilnadu, 27 & 28 January 2023.
- ☞ Oral Presentation on isolation and “**Characrerization of Cellulolytic Microorganisms from Termites**” in Internaltional Conference On Constorium Of Universal Research Erudition (iCURE) at Madurai Kamaraj University Madurai, on 03-06<sup>th</sup> 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 4<sup>th</sup> 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, 14<sup>th</sup>& 15<sup>th</sup> 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 08-10<sup>th</sup> 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 17<sup>th</sup> September 2016.
- ☞ Acted as Convener and Organizing Secretary for the Celebration of “International day Of Immunology” Organized by Department of Microbiology, Mannar Thirumalai Naicker College, Pasumalai, Madurai in Collaboration with Indian Immunology Society, New Delhi, on 29<sup>th</sup> April, 2023.
- ☞ Acted as **JURY MEMBER** in Clinical and Translational Research Conference-CTRON 2023, on 4<sup>th</sup> August 2023, organised by the Department of Molecular Genetics at Alpha Hospital & Research Centre, Madurai.
- ☞ Acted as Convener and Organizing Secretary for the Celebration of “Environmental Day-2023” Organized by Department of Microbiology, Mannar Thirumalai Naicker College, Pasumalai, Madurai on 27<sup>st</sup> June-2023.
- ☞ Acted as Practical External Examiner for UG Final year students of Madura College at 24<sup>th</sup> April & 1<sup>st</sup> November -2023.
- ☞ Participated in One Day Workshop on Plant Tissue Culture Techniques, organised by Sri Kaliswari College, Sivakasi on 23<sup>rd</sup> August 2023.
- ☞ Participated on One day Seminar on “**Clinical Proteomics and Proteomics Day Celebration**” Held on 18<sup>th</sup> 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 8<sup>th</sup> to 10<sup>th</sup> 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 29<sup>th</sup> April 2017.

- ☞ Acted as an **EVALUATOR** for 25<sup>th</sup> National Childrens Science congress -2017, co ordinated by TamilNadu Science Forum.
- ☞ Participated in One Day Seminar on **Immunotherapeutics and Diagnostics** Conducted by **Department of Molecular Microbiology**, School of Biotechnology, Madurai Kamaraj University, Madurai, on 5<sup>th</sup> October-2015.
- ☞ Participated in Awareness programme on “**Biosafety& Bioethics**”, Lady Doak College, Madurai- 8<sup>th</sup> Feb 2012.
- ☞ Participated in one day workshop on **Intellectual property rights (IPR)**”, Lady Doak College, Madurai-8<sup>th</sup> Feb 2011.
- ☞ Participated in One day training on **Vermicomposting** in Agriculture college and Research Institute, Madurai-4<sup>th</sup> Jan 2011.
- ☞ Attended “**On the Job Training Programme in Cytogenic Techniques**”,at Bharathiar University, Coimbatore held on June 3<sup>rd</sup> to 12<sup>th</sup>,2009.
- ☞ Participated in Intercollegiate **Green Wave Celebrations on Biodiversity- Conservation and Management** -13<sup>th</sup>&14<sup>th</sup> 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 17<sup>th</sup> March 2023.

#### PAPER PUBLICATIONS

**Tamilanban Rohini**, Rajadas Sam Ebenezer, HarshavardhanShakila. 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, ShakilaHarshavardhan.“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**, SajeethaSanthi V, Saranya S, Sam Ebenezer R, Shakila H,. "Optimization of AFEX PretreatedAgrowaste 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**, Satheeja SanthiVelayudhan, Sam Ebenezer Rajadas, ShakilaHarshavardhan. "Purification and characterization of an extracellular cellulase produced using alkali pretreated rice straw by *Stenotrophomonas maltophilia*", International Jouranl 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 Indian Journal of Natural Sciences. (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 Soundrarajan. Bioflim: 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 Sounderrajan, 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 Sounderrajan, 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 CARRIEDOUT

**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.

### PERSONAL DETAILS

Name	:	<b>Dr.T.Rohini</b>
Date of Birth	:	13.06.1990
Father's Name	:	N.Tamilanban
Nationality	:	Indian
Address	:	T.Rohini Plot no-26, 4/154 Abdhul Kalam Nagar, Nagamalai Pudhukottai, Melakuil Kudi Road, Madurai- 625019.