

Dr. R. Rekha, Mphil., Ph.D.,

Assistant professor

Department of Microbiology

Sourashtra College,

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CAREER OBJECTIVES

To pursue my job in a highly motivated environment that provides ample opportunities for continuous growth of my knowledge. where I can apply my skills and hardworking abilities by taking innovative steps and remaining flexible in my approach.

FIELD OF INTEREST

➤ **Bacterial isolation**

➤ **Antibacterial Activity**

EDUCATIONAL PROFILE

DOCTOR OF PHILOSOPHY IN MICROBIOLOGY (Ph.D.) – Highly Commended

Institution: Department of Microbiology, Bharathiyar University, Koovai – 641 046, India

University: Bharathiyar University, Koovai – 641 046, India.

Title of the Thesis: **Identification of delta toxin-producing Staphylococcus epidermidis in house stored frozen Channa punctate**

Recommendation: Awarded (Highly recommended)

MASTER OF PHILOSOPHY (M, phil)

Institution: Department of Microbiology, Bharathiyar University, Koovai – 641 046, India

University: Bharathiyar University, Koovai – 641 046, India.

Percentage: 87 %

Grade: First Class

Duration: July 2013 – April 2014

MASTER OF SCIENCE (M.Sc., Microbiology)

Institution: Department of Microbiology, Sourashtra College, Madurai - 625 004, India.

University: Madurai Kamaraj University, Madurai - 625 001, India.

Title of the Project: ***A surveillance Report from Locations in and around Madurai city***

Percentage: 95.2%

Duration: June 2011 – April 2013

Experience: My work is fully based on dairy and main concentration on milk so I do all the basic and advanced techniques in the food as well as dairy industry and well in antibacterial techniques, isolation of bacteria, hygiene-based packages, and proper maintenance of wastewater, and sanitization and I will handle bioreactor and manage all the technical error which occur during the process.

BACHELOR OF SCIENCE (B.Sc., Botany)

Institution: Department of Botany Meenakshi govt College Madurai-630 003, Tamil Nadu, India.

University: Madurai Kamaraj University, Madurai - 630 003, India

Percentage: 90.2%

Duration: June 2009 – April 2011

LIST OF PUBLICATIONS

Mabel Joshaline., Subathra., Shyamala., Padma S., **Rekha.** Automated Teller Machine (ATM)- “A pathogen city” –A surveillance Report from Locations in and around Madurai city, Tamil Nadu, India International Journal of public health science, 2014. 3(1): 51-56. IF -SCI Journal

Ragupathy Rekha, Velu Vijay., Uthandakalaipandian Ramesh, Depiction of delta toxin-producing Staphylococcus epidermidis in house stored frozen Channa punctate, Journal of Research in Ecology, (2017) 5(2):001-007, IF- SCI Journal

Papers Presented in National/International Conferences

1. Paper Participated and Presented paper at the National Conference, Karpagam University, Coimbatore Organized by Dept. of Microbiology Entitled “Harnessing The Power of Microbes for Better Food, Agro-Industry, Health, and Environment” on 19-20th September 2011

2. Participated and Presented a poster in Alagappa University, Karaikudi UGC& DST sponsored National Seminar Organized by Dept. of Microbiology Entitled” Role of Microbes in Health, Agriculture & Industry On 26-27th March 2012
3. Participated, Presented, and won **FIRST PRIZE** in State Level Student’s Seminar in Thiagarajar College, Madurai, organized by Dept. of Zoology Paper Entitled “Bio Fertilizers” On 26 September 2012
4. Participated, Presented, and won **SECOND PRIZE** in State Level Student’s Seminar in Thiagarajar College, Madurai, organized by Dept. of Zoology & Microbiology Paper Entitled “Molecular Studies Related to Multi-Drug Resistant Microorganisms Isolated from Clinical Samples” on 26 .2. 2013
5. Participated and Presented in State Level Seminar at Sri Meenakshi Government College, Madurai, organized by dept. of Zoology Paper Entitled “Recent Trends in Life Sciences” on 27.2. 2013
6. Participated and Presented in National Sciences Day in Sourashtra College, Madurai, organized by Dept. of Biochemistry & Biotechnology Entitled Stem Cell Therapy” on 2.3.2013
7. Participated in a one-day Seminar Immunotherapeutics and Diagnostics in Madurai Kamaraj University Organised by the School of Biotechnology, Dept. of Molecular Microbiology on 5.10.2015
8. Participated and Presented in the poster BIOGALAXIA in Bharathiyar University, organized by Dept. of Microbial Biotechnology poster Entitled “Characterization of biofilm-forming *staphylococcus epidermidis* in frozen fish and its effect on human health” on 18.12.2015
9. Participated and Presented poster in National conferences at Madurai Kamaraj University, Madurai, Organized by Dept. of School of Biological Sciences Poster on 27.2.2016 - 28.2.2016
10. Participated in a two-day workshop on “Bioentrepreneurship” on 18-19 October 2023 organized by the Department of Microbiology held at Sourashtra College, Madurai.

RESEARCH AND TEACHING INTERESTS

- Microbial cell culture
- Electrophoresis techniques Agarose gel electrophoresis
- Antimicrobial activity

OBJECTIVE OF MY DOCTORAL THESIS WORK

- ❖ I have good knowledge of methodology in freezing and thawing of fish.
- ❖ Isolation of bacteria and freezing technology in and maintaining frozen fish without contamination
- ❖ 16S rRNA gene sequencing methods
- ❖ The main objective of this whole research work is the **outcome of the work will minimize the contamination in frozen food and increase the shelf life of any frozen meat etc.**

TEACHING EXPERIENCE

Assistant Professor	Sourashtra College, Madurai	2023 still
Assistant Professor	Ambiga arts and science college, Madurai	2013 to 2014

INSTRUMENTATION SKILLS AND ADDITION INFORMATION

Microbiological Technique:

- Basic Laboratory techniques for isolation, cultivation, and culture characterization of microorganisms, bacterial staining, Analysis of antimicrobial of various substances, and pure culture techniques.

PERSONAL PARTICULARS

Name	: R. Rekha
Date of birth	: 05 th May 1990
Nationality	: Indian
Marital Status	: Married
Languages Known	: English, Tamil
Permanent Address	: D/O, Mr. K V. Ragupathy– Mrs. R. Rajeshwari 24, Ashok Nagar 2 street, Kochadai-625016 Madurai -Taluk & District, Tamil Nadu, India.

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge.

Yours Sincerely

(R. REKHA)