



# K.M.G. COLLEGE OF ARTS AND SCIENCE

Permanently Affiliated to Thiruvalluvar University and  
Recognized by UGC under section 2(F) & 12(B) of the UGC Act 1956.  
Accredited with 'A' Grade by NAAC  
Associate member of ICT Academy

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## STAFF PROFILE

Name	: Dr.A.M. RAJALAKSHMI
Qualification	: M.Sc., M.Phil., Ph.D., NET
Designation	: ASSISTANT PROFESSOR
Date of joining	: 03.08.2007
Date of Birth	: 13.051984
Blood Group	: 'O' POSITIVE
Marital Status	: MARRIED
Mother Tongue	: Tamil
Religion	: HINDU
Nationality	: INDIAN
Languages Known	: Tamil & English
Permanent Address	: 8/72, GANDHIJI STREET, THORAPADI, VELLORE- 632002
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University Approval	: UG & PG approved staff from Thiruvalluvar University
	UG: No. TU/R/Apl.Aulfn./Lecturer/KMGCA&S/2008/416
	PG: No.TVU/R/Apprl. Of Qulfn./KMGC/2017/8464

## 1. EDUCATIONAL QUALIFICATION

DEGREE	INSTITUTION	BOARD	SPECIALIZATION
Ph.D.	Periyar University	Periyar University	Microbiology
NET	National Eligibility Test (ICAR-NET) from ASRB	ASRB	Agricultural Microbiology
M.Phil.,	Bharathidasan University	Bharathidasan University	Microbiology
M.Sc.,	Adhiparasakthi college of Arts and Science, Kalavai	Thiruvalluvar University	Applied Microbiology
B.Sc.,	DKM college for women's, Vellore	Madras University	Microbiology

## 2. PROJECT DETAILS

**Ph.D. Project : Bioremediation of Tannery effluent, Heavy metal biosorption and CO<sub>2</sub> sequestration by Microalgal isolates: Optimization of growth parameters using response surface methodology.**

**M.Phil., Project :Antibacterial activity of certain medicinal plants against clinically isolated aminoglycoside resistant *Enterococcus faecalis***

**M.Sc., Project : Screening of probiotic bacteria from fresh water fishes and its antagonistic evaluation of bacterial disease control.**

### **Professional Certifications:**

Under the Student project scheme sponsored by Tamil Nadu State Council for Science and Technology for M.Sc., Project.

### **3. TEACHING EXPERIENCE**

<b>DESIGNATION</b>	<b>INSTITUTION</b>	<b>PERIOD</b>	<b>TOTAL YEARS</b>
Assistant Professor in Microbiology	K.M.G. College of Arts and Science, Gudiyattam.	2007-Till date	<b>17</b> Years

### **4. TECHNICAL QUALIFICATION**

Software knowledge in LOTUS, CAD, Oracle, Netsurf, MS-Office, Linux, Windows etc., Type writing in English [Senior Grade] with First Class.

### **5. AREA OF SPECIALIZATION**

- Soil, Agricultural and Environmental Microbiology
- Microalgal Technology
- Diagnostic Microbiology

### **Papers Handled**

- Fundamentals of Microbiology
- Medical Virology, Mycology and Parasitology
- Tannery Technology
- Molecular Biology and Genetic Engineering
- Algal Technology
- Bioinstrumentation
- Immunology
- Recombinant DNA Technology

## **6.OTHER HIGHLIGHTS**

### **Papers Published in International & National Journals:**

**Rajalakshmi, A.M.T.** Silambarasan and R. Dhandapani, 2022, Biosorption Of Heavy Metals From Tannery Effluents by using Green Unicellular Microalga, *Tetradismus Obliquus* RDRL01, *Applied Biological Research* 24(1): 28-37; DOI: 10.5958/0974-4517.2022.00008.8

**Rajalakshmi, A.M.,** Silambarasan, T., and Dhandapani, R., 2021. Small scale photo bioreactor treatment of tannery wastewater, heavy metal biosorption and CO<sub>2</sub> sequestration using microalgae *Chlorella sp.*: abiodegradation approach. *Applied Water Science*,11(7),pp.1-12.<https://doi.org/10.1007/s13201-021-01438-w>.

**Rajalakshmi,A.M.,** and Dhandapani,R.,2018.Bioremediation of Heavy metals using microalgae–A review article, *International Journal of Research and Analytical Reviews (IJRAR)*, Volume 5 –p4. <https://www.ijrar.org/papers/IJAR190H039.pdf>. Santhosh,S.,

**Rajalakshmi, A.M.,**Navaneetha krishnan,M.,Angel,S.J., and Dhandapani, R.,2020.Lab-scale degradation of leather industry effluent and its reduction by *Chlorella sp.* SRD3and*Oscillatoriasp.*SRD2:abioremediation approach. *Applied Water Science*, 10(5), pp.1-11. <https://doi.org/10.1007/s13201-020-01197-0>.

Dhanasekaran. D, Subhasish Saha, N. Thajuddin, **A.M. Rajalakshmi** and Panneerselvam, 2010,Probiotic Effect of *Lactobacillus* isolates Against Bacterial Pathogens in Fresh Water Fish, *Journal of Coastal Development*, Volume 13, Number 2, 103-112, ISSN : 1410-5217 .

### **7. AREAS OF RESEARCH INTEREST:**

- Environmental Microbiology, Soil and Agricultural Microbiology, Food Microbiology, Industrial and Pharmaceutical Microbiology.

### **ONLINE COURSES:**

- Completed An International Online Certificate Course on “**Professional Skills**”from 06.12.2023 to 15.12.2023 (10 hours) organized by the Microbiologists Society, India.
- Completed in Two days National Level workshop cum Training (online) on ‘**MOLECULAR DOCKING PROCEDURE**’ conducted by FDP Division, A.C.T. Academy , Tamil Nadu on 15.12.2023 and 16.12.2023.

### **OTHER RESPONSIBILITIES:**

- ✓ Worked as a Enviro Club Coordinator.
- ✓ Worked as a Fine Arts Club Coordinator.
- ✓ Worked as a Women's Welfare Coordinator.
- ✓ Member for the National and State level Seminars and Conferences in latest trends periodically.
- ✓ Providing guidance to the students for developing their career as well as making them familiar with different career opportunities.
- ✓ Worked as a NAAC Internal Assessor.
- ✓ Worked as a Magazine committee member and discipline committee member.

### **OTHER HIGHLIGHTS:**

- I have been appointed as External Examiner for Conducting UG and PG practical Examination for various autonomous college and Thiruvalluvar University.
- I have been appointed as External Examiner for Theory paper evaluation of both UG and PG for various autonomous college and Thiruvalluvar University.
- I have been appointed as question paper setter for various autonomous college

### **International & National Conference Attended:**

- Participated the virtual Expert Lecture on 'Microbiology studies under India's polar program – ecology, climate change and biotechnology' under the Expert Lecture Series on Microbial Bioprospecting (ELSMB)" organized by the centre for Drug and Development , Sathyabama Institute of Science and Technology, Chennai on 06<sup>th</sup> Jan 2024.
- Presented a Poster presentation in International Virtual E-Poster competition on "Current research Trends in Biological Science" on 21 July 2021 conducted by E- Skillpedia.
- Participated in International webinar on "Approaches in Molecular Biology" organized by PG and Research Department of Microbiology and Biochemistry, K.M.G College of Arts & Science, Gudiyattam on 03.08.2021.
- Participated in National level webinar on "Biodegradable Polymers Derived from Renewable Resource Materials" conducted on July 7<sup>th</sup>, 2021 organized by SRM Institute of Science and Technology, Chennai.
- Participated in "One Day Workshop on Instrumentation" held on 29.02.2020 at DST- FIST Instrumentation facility centre, DKM College for Women, Vellore.
- Participated in national level webinar on "Can India solves its farmer plight and become Food bowl of the world" conducted on October 16, 2020 organized by Biotecnika Info Labs Private

Limited, India.

- Participated on “Creation of Scientific Awareness” catalyzed and supported by Tamil Nadu State Council for Science and Technology, Chennai organized by Arignar Anna Government Arts College for Women, Walajapet on 06.02.2019.
- Participated in Training programme on Food Safety and its Implementation based on HACCP, held on 24<sup>th</sup> Feb 2014, at APCAS, Kalavai.
- Participated in National level workshop on Molecular Techniques held on 13<sup>th</sup> and 14<sup>th</sup> Feb 2013, at APCAS, Kalavai.

**Dr.A.M.RAJALAKSHMI**