

P. Margaret Sangeetha



Designation : **Assistant Professor**

Date of joining : **21. 6. 2017**

Department : **Microbiology**

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Educational Qualifications

Degree / Examination	Subject	Institute / University & Place	Year
Ph.D	Nanoscience and Technology	Alagappa University	Pursuing
ICAR-NET	Agricultural Microbiology	ICAR-Agricultural Scientists Research Board	2020
M. Phil. (Distinction)	Biotechnology	Bharathidasan University, Trichy	2006
M.Sc. (Distinction)	Biotechnology	Loyola College, Chennai (University of Madras)	2004
B.Sc.	Microbiology	Lady Violet College, Chennai (University of Madras)	2002

Specialization in Teaching:

- Food and Industrial Microbiology
- Microbial and Bioprocess Technology
- Environmental Biotechnology
- Marine Biotechnology
- Research Methodology
- Chemistry of Natural Products
- Bioethics
- Microbiology

Specialization in Research:

Microbial Biodegradation, Environmental Biotechnology, Environmental monitoring, and Bioprocess Technology

Research Experience:

- M.Sc., project – “Studies on Biodegradation of Azo dyes using *Pseudomonas* sp.” at *Central Leather Research Institute (CLRI)*, Adyar, Chennai
- M.Phil., project – “Agrobacterium mediated Genetic Engineering of Rice variety IR-36 for fungal resistance using Chitinase and β -1,3 glucanase genes” at *Entomology Research Institute (ERI)*, Loyola College, Chennai
- As a lecturer, Guided 15 M.Sc., Biotechnology students for their project work in various fields of *Biotechnology and Life Sciences*
- Guided 40 M.Sc., Microbiology students for their project work in the related fields of Microbiology and Nanotechnology.

Other Work Experience:

Designation	Institution / Company	Year - From (month/year) To (month/year)
Faculty & Coordinator	Dauha Al Uloom International Academy, Jeddah, Saudi Arabia	April, 2014 to May, 2016
Lecturer	Department of Plant Biology and Biotechnology, Loyola College, Chennai, Tamil Nadu	Sep. 2005 to Nov. 2009
Lecturer	Department of Biotechnology, J.M.J. College for Women, Morispet, Tenali, Andhra Pradesh	July 2004 to April 2005

Administrative /Academic Position/s (held / currently holding):

Positions held / currently holding	Year - From (month/year) To month/year)
Assistant Professor, Department of Microbiology, The	June 2017- Present

American College.	
NAAC Committee Member Criterion IV – Infrastructure and Learning Resources	Academic year 2021 onwards
Member - Board of Examinations, Department of Zoology, Fatima College, Madurai	June 2017- Present

Membership in Professional Bodies:

<ul style="list-style-type: none"> ➤ Life member in Indian Association of Applied Microbiologists (IAAM) ➤ Life Member in Western Ghat Researcher Association of Agricultural Sciences and Technology -Registration No: TN-23-0046226.
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Awards / Fellowships:

- Received "**Manbumigu Magalir Award**" for the year 2021 from Dr. Abdul Kalam Education and Greenery Trust, Chennai
- Passed the ICAR-National Eligibility Test for lectureship in January 2020.
- Won award for the 100% attendance for the staff during the academic 2006-07 in Loyola College, Chennai.
- Secured First Class with Distinction in M.Phil (2006)
- Secured First Class with Distinction in Master's Degree (2004)
- "Best Outgoing Student" award received during B.Sc., (1999-2002)

Techniques Handled

- Isolation and Expansion of Cell cultures
- Maintenance of Cell cultures
- Preparation of Ingredients and Media for culturing organisms
- Media preparation (blood agar, MacConkey agar, Nutrient broth, Nutrient agar preparation etc.,) IMVic Test
- Plating and Staining techniques
- Assessment of physical parameters affecting the biodegradation process.
- Following Good documentation practices in all operation
- Plant Cell cultures handling, maintenance & Cryopreservation.
- Isolation and Quantification of Genomic and Plasmid DNA and total RNA
- Electrophoretic techniques and Transformation protocol

Patents

- Patent Design: Sensing device for Underwater Pollution and Water Quality – Design Number – 379341 – 001 dated 08 .01. 2024
- Analyses Device for Processing of Biological samples – Design Number – 372543 – 001 dated 02. 01. 2023

Research Publications

- Poornima Jeyasekaran, M Deepa, **P Margaret Sangeetha** "A Sustainable Waste Management Research on the Utilization of Passion Fruit Peel and Rind as A Prebiotic" -International Conference e- Proceedings on Recent Advances in Allied Health and Biological Science Research 18th & 19th November 2022.
- GyanaJyothi, R., Sudharshinee, V and **Margaret Sangeetha, P.** 2019. Sensory attributes and shelf-life analysis of homemade classic Tomato Sauce. International Journal of Research and Analytical Reviews - IJRAR February 2019 Volume 6, ISSN - 2348–2350.
- Parvathavarthini, R., **Margaret Sangeetha, P** and Joseph Thatheyus. 2018. Biodegradation of Cypermethrin using Pseudomonas stutzeri. Roots international Journal of Multidisciplinary Researches. 4 (9):61-64.
- Bebin, A., **Margaret Sangeetha, P** and Sethu Nagarajan, R. 2018. Evaluating the Oxalate Degrading Ability of probiotic isolates from Curd and Cow dung Against Kidney Stone. International Journal of Innovative Science and Research Technology IJISRT, Vol. 3/ Issue 7 / July 2018 ISSN No - 2456 – 2165.

International/National/Regional Conferences, Seminars and Workshops

Conferences organized

Organizing Secretary of the "**Vigyan Sarvatra Pujyate**" festival of SCoPE for all held at The American College, Madurai from 22 – 28 February 2022.

Organizing Secretary for the National Conference on "**Recent Trends in Modern Immunology**" held at The American college, Madurai on 23rd January 2019.

Participation:

- International Conference on "Innovative Technologies in Protected Environment Agriculture – Special Focus on the Influence of Artificial LED Lighting in Plant Factory Systems – A Bioinformatics Perspective" held on May 27, 2024 organized by the Department of Bioinformatics, School of Life Sciences, VISTAS, Chennai.

- Seminar series on "Biotechnological and Nanotechnological Application for Marine Bioresources Augmentation" organized by the Department of Center for Ocean Research, Sathyabama Institute of Science and Technology from 4.05.2023 to 9.05.2023
- International Conference "Insights on Infectious and Rare Diseases" organized by the Department of Zoology, G.T.N Arts and Science College, Dindigul on 15.05.2022.
- Three Days National Level Faculty Development Programme on "Curriculum Development, Research & Innovation" conducted by PG and Research Department of Commerce in association with IQAC, Trinity College for Women, Namakkal dated from 28-07-2021 to 30-07-2021.
- Online Faculty Development Program on "Recent trends in Life Sciences" organized by the Department of Zoology, St. Jude's College, Thoothoor on 06.07.2020 to 10.07.2020.
- FDP on "E-content Development for Higher Education" organized by the Department of Biomedical Engineering and Internal Quality Assurance Cell (IQAC) - Karpaga Vinayaga College of Engineering and Technology on 23rd May 2020.
- Webinar on "Bacterial Quorum sensing & its implications in Bioremediation" organized by the Department of Biotechnology, D.G. Vaishnav College, Chennai on 22nd May, 2020.
- National seminar on "Avenues of Research in Biology" *organized by the PG Department of Zoology, Fatima College (Autonomous), Madurai on 12th February 2020.*
- International seminar on "Recent Trends in Food Processing Technology – 2019 (RTFPT-19)" organized by the *Department of Food Science and Technology, Arul Anandar College Autonomous), Karumathur, Madurai on 19th January 2019.*
- National level seminar on "Nurturing Academic Integrity: Consistency and Transparency in Academia" organized by the *Department of Library and Research Advisory Committee, Fatima College (Autonomous), Madurai on 17th September 2018.*
- International Symposium on "Biomedical Research: Challenges & Opportunities" organized by the *Research Advisory Committee, Fatima College (Autonomous), Madurai on 07th February 2018.*
- Presented a paper entitled "Biodegradation of Cypermethrin employing *Pseudomonas* sp." in the National conference on "Impacts of Pollution on Health and Restoration of Quality Environment Through Biotechnology Applications" organized by *PG and Research Department of Zoology and PG Department of "Immunology and Microbiology, The American College, Madurai on 2nd and 3rd February 2018*

- UGC sponsored National level seminar on "Recent Trends in Food Processing Technology - 2018 (RTFPT-18)" organized by the *Department of Food Science and Technology, Arul Anandar College (Autonomous), Karumathur, Madurai* on 30th January 2018
- National conference on "Advances in Environmental Research: An Interdisciplinary Approach (AERIA'11)" organized by the *Department of Zoology, Annamalai University, India* (from 11th to 12th, March 2011)
- National conference on "Higher Education at Cross roads" organized by *Loyola College, Chennai* (7th - 9th February, 2008)
- Orientation Programme on "Story, Spirit, Style" for Junior Teaching Staff at *Loyola College, Chennai* (4th - 8th June, 2007)
- State level Seminar on "Women Mental Health and Quality of Life" organized by *FLAWS, Loyola College, Chennai* (8th Mar, 2007)
- 'Campus 2010' National Seminar on "Information Communication Technologies with Human Face" at *Loyola College, Chennai* (6th and 7th Feb, 2006)
- 3rd International Annual Conference on "Regenerative Medicine and Tissue Engineering" (Stem Cells and their Applications) at *APT Bhavan, Bangalore* (15th and 16th Apr., 2006)
- National Seminar on "Emerging Trends in Biomedical Sciences and their Translational Applications" organized by *PG and Research Dept. of Zoology, Loyola College, Chennai* (1st March, 2006)
- DBT and CSIR sponsored Workshop on "Plant Tissue Culture and Biotechnology for College Teachers" organized by the *Dept. of Plant Biology and Biotechnology, Loyola College, Chennai* (Jan 23rd - 28th, 2006)
- National Seminar cum Workshop on "Emerging Trends in Computational Biology and Genomics" organized by *Dept. of Biotechnology, K.L. College of Engineering* in association with *Helix Genomics Pvt. Ltd., Hyderabad*. (30th Sep., 2005)

Lectures / Talks given:

- Delivered a Guest Lecture on "**Ethnic Food for Sustainable Health**" at *Arul Anandar College, Madurai* (15th March 2024)
- Delivered a Guest Lecture on "**Foodborne diseases**" at *Arul Anandar College, Karumathur, Madurai* (8th January, 2024)
- Delivered a Guest Lecture on "**Prebiotics and Probiotics**" at *Arul Anandar College, Karumathur, Madurai* (7th August 2023)

- Delivered a Guest Lecture on **“Food Microbiology”** at Arul Anandar College, Karumathur, Madurai (6th March 2018)
- Served as an Organizing Committee member in the National conference on **“Impacts of Pollution on Health and Restoration of Quality Environment Through Biotechnology Applications”** organized by PG and Research Department of Zoology and PG Department of “Immunology and Microbiology, The American College, Madurai on 2nd and 3rd February 2018
- Delivered a lecture on **“Food and Nutrition”** to a group of students in *Britto Academy, Velachery, Chennai* (29th October 2009)
- Delivered a lecture on **“Bioprocess Technology”** in the Regional Workshop on ‘Recent Trends in Techniques of Medical Laboratory and Biotechnology’ at *Loyola College, Chennai* (19th – 30th December 2006)
- Delivered a Guest Lecture in the Workshop on **‘Plant Tissue Culture and Biotechnology for College and School Teachers’** at *Loyola College, Chennai* (23rd – 28th January 2006)

Doctoral Students

Completed:

Name of the Student	Title of the Thesis
NA	

Ongoing:

Name of the Student	Title of the Thesis
NA	

UGC Sponsored Major Projects:

Title	Year of Award	Amount Awarded	Status of the project Completed/ Ongoing	Co-investigator, if any
NIL				

UGC Sponsored Minor Projects:

Title	Year of Award	Amount Awarded	Status of the project Completed/ Ongoing	Co-investigator, if any
NIL				

English Language Proficiency

IELTS overall band score **7** (17/MAR/2012)

Overseas Academic Visits:

- Worked as Faculty and Coordinator in Dauha Al Uloom International Academy, **Jeddah, Saudi Arabia** (2014-2016)

Other Activities / Academic Credentials:

- Participated in the **Refresher Course** on 'Value Education and Life coping Skills' organized by *Madras Centre for Research and Development of Community Education* (MCRDC), Chennai