

## Yogesan Meganathan, M Tech.

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Google Scholar: [Yogesan Meganathan](#)

### Academic Credentials

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<b>Kumaraguru College of Technology, Coimbatore, TN, India.</b>	<b>[2018- 2020]</b>
Master of Technology, Biotechnology	CGPA-8.4/10
<b>Mepco Schlenk Engineering College, Sivakasi, TN, India.</b>	<b>[2014- 2018]</b>
Bachelor of Technology, Biotechnology	CGPA: 7.38/10

### Research Interest

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Microbiome, plant microbe interaction, biofilms, and antimicrobial resistance

### Research Experience and Internships

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#### Way2Grow Agro tech, Chennai, IN [2023- Present]

Research assistant | Project: Plant growth promoting microbiome.

- Exploring the plants root soil microbiome and optimization of growth media for culturing the bacteria.
- Drafted, and edited research proposals for funding agencies.

#### SRM Institute of Science and Technology, Chennai, IN [2021-2023]

Research Scholar | Project: Biofilm formation and interaction of pathogenic *Leptospira* in agricultural field biofilms.

- Lead and manage research projects, such as studies on biofilm formation, antimicrobial resistance.
- Design and implement experiments, ensuring robust methodologies that align with scientific standards and research objectives.
- Prepared and published research findings in peer-reviewed journals.

#### Molecular connections Pvt. Ltd. Bangalore, IN [Jul 2020- Dec 2020 ]

Remote intern | Scientific analyst

- Curated and indexed biological and chemical databases for published research and review papers.

### Technical Experience

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- Laboratory experience in UV-Vis spectroscopy using Nanodrop, Mass Spectrometry, Agarose Gel Electrophoresis and Polyacrylamide Gel Electrophoresis.
- Expertized in biochemical assays, microbial culturing, biofilm assays and antimicrobial testing.
- Well experienced in techniques such as PCR, qPCR, and RT PCR.
- Theoretical and laboratory experience in molecular cloning and gene expression in *E.coli*.
- Hands-on experience in microbiome analysis using metagenome sequence and transcriptome analysis.

- Statistical proficiency - analysis and presentation of quantitative data using R programming, Excel and GraphPad Prism.
- Experience in conducting and analyzing qualitative data from focus group discussions.
- Proficient in writing and publishing research papers and review articles, with clarity and precision.

## Awards

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- **GATE Qualified (2020):** Demonstrated strong analytical and problem-solving skills by successfully clearing the Graduate Aptitude Test in Engineering (GATE).
- **Best Presentation Award:** Recognized at the National Conference on Convergence Technologies in Biomedical Engineering (SNS College of Technology, Coimbatore) for research on the role of metal ions in antimicrobial resistance of mixed-species biofilms.

## Selected Publications

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- **Yogesan Meganathan**, Archana Vishwakarma, and Ramya Mohandass. 2022. “**Biofilm Formation and Social Interaction of Leptospira in Natural and Artificial Environments.**” *Research in Microbiology* 103981. doi: [10.1016/j.resmic.2022.103981](https://doi.org/10.1016/j.resmic.2022.103981).
- Govindarajan, Deenadayalan Karaiyagowder, **Yogesan Meganathan**, Muthusaravanan Sivaramakrishnan, Ram Kothandan, Ananthasubramanian Muthusamy, Thomas William Seviour, and Kumaravel Kandaswamy. 2022. “**Enterococcus Faecalis Thrives in Dual-Species Biofilm Models under Iron-Rich Conditions.**” *Archives of Microbiology* 204(12):710. doi: [10.1007/s00203-022-03309-7](https://doi.org/10.1007/s00203-022-03309-7).

## Academic Experience

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**SRM Institute of Science and Technology, Chennai, TN, India**

**[2021-2023]**

Research scholar | Teaching and lab assistance

- Course: Computational biology for beginners.
- Laboratory: Microbiology, molecular biology and genetic engineering laboratory.

## Reference

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**Dr. K Kumaravel**

Assistant professor

Department of Biotechnology

Kumaraguru college of technology

Coimbatore, TN, India.

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