

<b>Name</b>	<b>:</b>	<b>Ms. G. MARY STEPHY</b>
<b>Qualification</b>	<b>:</b>	<b>M.Sc.</b>
<b>Designation</b>	<b>:</b>	<b>Research Scholar</b>
<b>Discipline</b>	<b>:</b>	<b>Botany</b>
<b>Date of Commencement:</b>		<b>13.10.2021</b>
<b>Registration Number</b>	<b>:</b>	<b>21112212262010</b>
<b>Mode</b>	<b>:</b>	<b>Full time</b>
<b>Name of the Supervisor :</b>		<b>Dr. G. Flora</b> Assistant Professor of Botany, St. Mary's College (Autonomous), Thoothukudi
<b>Area of Research</b>	<b>:</b>	<b>Microplastics; Bioremediation</b>
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**Proposed title:** Identification of Microplastics from Environmental Samples and Elucidation of Green Microalgal Potential on Non-Phthalate Pollution

**Doctoral Committee**

Name of the DC members: 1. Dr. P. Gopal, Assistant Professor of Plant Biotechnology, Madurai Kamaraj University, Madurai.

2. Dr. Sr. A. Arockia Jenecius Alphonse, Associate Professor of Botany, St. Mary's College (Autonomous), Thoothukudi.

Date of 1<sup>st</sup> DC meeting: 03.11.2021

Date of 2<sup>nd</sup> DC meeting: 10.10.2023

**1. Seminars/Workshops/FDP/ Conferences/Training**

<b>Title of the Workshop/ Seminar/ FDP</b>	<b>Type</b>	<b>Paper Presented/ Participated</b>	<b>Title of the Paper</b>	<b>Organized By</b>	<b>Date</b>
FDP on Pursuit	International	Participated	-	Sathyabama	20.10.2021

of Excellence in Research and Advanced Technology				Institute of Science and Technology, Chennai	-- 30.10.2021
Workshop on Quality Research Proposal and Publications	-	Participated	-	St. Mary's Mathematics Research Forum of St. Mary's College (Autonomous), Thoothukudi	17.12.2021
Conference on Innovative Research in Humanities, Science and Technology	International	Presented	Green synthesis of Silver Nanoparticles from selected terrestrial vascular phanerogams	Selvam Arts & Science College, Namakkal	06.01.2022 -- 07.01.2022
Hands-on Tutorial on Library Without Walls: E-Resources through NLIST	-	Participated	-	Library Committee, St. Mary's College (Autonomous), Thoothukudi	10.01.2022
Webinar on Computer Aided Drug Design	International	Participated	-	Institute of Innovations, Tiruvannamalai	23.01.2022
FDP on Fundamentals of Oxygen Biochemistry with Special Reference to Body Immunity	-	Participated	-	Department of Chemistry, St. Mary's College (Autonomous), Thoothukudi	01.02.2022 -- 04.02.2022
Science Communication & Popularization	-	Participated	-	Tamil Nadu State Council for Science and Technology	07.02.2022
Workshop on Microalgal Technology	International	Participated	-	Department of Botany, St. Mary's College (Autonomous), Thoothukudi	16.02.2022 -- 18.02.2022

Faculty Development Programme on Intellectual Property Rights	-	Participated	-	Department of Botany, St. Mary's College (Autonomous), Thoothukudi	21.02.2022 -- 25.02.2022
Conference on Biological Innovations & Computational Exploration for Pandemic Challenges	International	Participated	-	Department of Biotechnology & Bioinformatics, Bishop Heber College (Autonomous), Tiruchirappalli	24.02.2022 -- 25.02.2022
Webinar on Climate Change and Future Challenges	International	Participated	-	Department of Botany, St. Mary's College (Autonomous), Thoothukudi	03.03.2022 -- 04.03.2022
Workshop on Research Methodology and Data Analysis Using SPSS	National	Participated	-	Department of Commerce, Kamaraj College, Thoothukudi	06.04.2022 -- 08.04.2022
Synthesis of Tellurium Tetrachloride Nanoparticles	-	Participated	-	Trichy Research Institute of Biotechnology Private Limited, Trichy	11.04.2022 -- 13.04.2022
Workshop on Free & Open Source Software for Data Analyses	-	Participated	-	Madurai Kamaraj University, Madurai	25.04.2022 -- 29.04.2022
Training on Morphological Identification, Isolation and Culturing Techniques of Microalgae and Cyanobacteria	-	Participated	-	Department of Microbiology, Bharathidasan University, Tiruchirappalli	20.06.2022 -- 25.06.2022
Seminar on Research Visibility Tools	National	Participated	-	Annammal College of Education For	24.10.2022

for Reaching a Wider Audience				Women, Thoothukudi	
Conference on Recent Advances in Structural Biology	National	Participated	-	National College (Autonomous), Tiruchirappalli	04.11.2022 -- 05.11.2022
Training Programme on Environmental Monitoring Using Advanced Analytical and Molecular Tools	National	Participated	-	School of Marine Sciences & School of Environmental Sciences, Bharathidasan University, Tiruchirappalli	09.11.2022 -- 15.11.2022
Webinar on Keys to Publish in High Impact Journals	International	Participated	-	Marian Research Forum, St. Mary's College (Autonomous), Thoothukudi	07.02.2023
Hands on Training Programme on Molecular Modeling and Dynamics	-	Participated	-	Department of Chemistry, St. Mary's College (Autonomous), Thoothukudi	13.02.2023 -- 15.02.2023
Conference on Recent Trends in Microbial Biotechnology	National	Participated	-	Department of Marine Biotechnology, Bharathidasan University, Tiruchirappalli	24.02.2023
Conference on Emerging Trends in Biotechnology and Bioeconomy	International	Presented	Tolerance and Toxicity of Dibutyl Adipate in <i>Chlorella vulgaris</i>	Department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli	09.03.2023 -- 10.03.2023
Conference on Recent Trends in Life Sciences	National	Participated	-	Department of Zoology, St. Mary's College (Autonomous), Thoothukudi	17.03.2023 -- 18.03.2023

Conference on Applied Biosciences	International	Presented	Biodegradation of Dibutyl Adipate by Green Microalgae <i>Chlorella vulgaris</i>	Department of Botany, St. Mary's College (Autonomous), Thoothukudi	28.03.2023 -- 29.03.2023
Conference on Research Publication: An Integrative and Dynamic Approach	-	Participated	-	Marian Research Forum, St. Mary's College (Autonomous), Thoothukudi	19.04.2023
Webinar on Microplastics	International	Participated	-	Department of Zoology, S.T. Hindu College, Nagercoil	05.06.2023
Workshop on Academic Writing: Authenticity and Ethical Imperatives (Exclusive Hands on Training on E-Aarjav)	-	Participated	-	Marian Research Forum And Library Committee of St. Mary's College (Autonomous), Thoothukudi	20.09.2023
Workshop on Avoiding Predatory Publishing : Guidelines for Choosing Quality Journals in the Digital Age	-	Participated	-	Marian Research Forum, St. Mary's College (Autonomous), Thoothukudi	11.12.2023
Seminar on Navigating Consultancy, Filing Patent And Designing Research Articles: Insight and strategies	National	Participated	-	Marine Research Forum and Internal Quality Assurance Cell (IQAC) of St. Mary's College (Autonomous), Thoothukudi	20.01.2024

Lecture Cum Training on Taxonomic Tale of Plant Kingdom	National	Participated	-	Department of Botany, St. Mary's College (Autonomous), Thoothukudi.	08.02.2024 -- 09.02.2024
Conference on Microalgae: Biodiversity and Bioprospecting	International	Presented	Assessment of <i>Scenedesmus dimorphus</i> NRMC- F 0174 tolerance on a hazardous chemical dibutyl adipate	Department of Botany, St. Mary's College (Autonomous), Thoothukudi	20.02.2024 -- 21.02.2024
Seminar on Marine Resources: Conservation and Sustainable Utilization and Strategies	National	Participated	-	Department of Zoology, St. Mary's College (Autonomous), Thoothukudi	06.03.2024
Webinar on Plagiarism: Ways and Means to Curb the Menace in AI world	-	Participated	-	Library Committee of St. Mary's College (Autonomous), Thoothukudi.	13.03.2024
Workshop on Plant DNA Taxonomy	National	Participated	-	Department of Botany, Visakha Govt. Degree College for Women (A), Visakhapatnam, AP.	03.08.2024
Skill Development Training Programme on Ornamental Fish Breeding and Culture	-	Participated	-	ICAR- SCAD Krishi Vigyan Kendra, Vagaikulam, Thoothukudi, Tamil Nadu	06.08.2024 -- 10.08.2024
Workshop on Elevate your Research:	State	Participated	-	Marine Research Forum, St.	20.08.2024

Author and Editor Insights for Publishing in a Reputed Journal				Mary's College (Autonomous), Thoothukudi.	
FDP on <i>In silico</i> Modelling approach for Pharmaceutical Sciences		Participated	-	Marian Star Centre, Department Of Chemistry Under Star College Scheme	27.08.2024 -- 29.08.2024
Workshop on Plant Genetic Engineering	-	Participated	-	Department of Botany, St, Mary's College (Autonomous), Thoothukudi	29.08.2024 -- 30.08.2024
Workshop on Learning Statistics and Data Analysis using SPSS	National	Participated	-	Department of Microbiology, Bharathidasan University, Tiruchirappalli	03.09.2024 -- 04.09.2024
Workshop on IPR Procedures and Awareness	National	Participated	-	Department of Botany, St, Mary's College (Autonomous), Thoothukudi	13.09.2024 -- 14.09.2024

## 2. Proceedings

Paper Title	Author(s)	Conference/ Seminar	Year	Page No.	Orgnaized by
Green approach to mitigate dibutyl adipate pollution using <i>Chlorella vulgaris</i> NRMC F- 128	<b>G. Mary Stephy</b> and G. Flora	International Conference on Frontiers in Biological and Medical Sciences	2024	26-31	Department of Zoology, Seethalakshmi Ramaswami College, Tiruchirappalli
Understanding	<b>G. Mary</b>	National Conference on	2024	38-43	V.O.

the Impact of Dibutyl Adipate on <i>Scenedesmus dimorphus</i> NRMC-F 0174: Tolerance Assessment and Ecological Implications	<b>Stephy</b> and G. Flora	Environmental Issues and their Treatments			Chidambaram College, Tuticorin
Potentiality of <i>Scenedesmus dimorphus</i> in degrading dibutyl adipate contamination in aquatic environment	<b>G. Mary Stephy</b> and G. Flora	International Conference on Integrating Innovative Pedagogies and Multidisciplinary Research for Successful Research Grants	2024	105-113	Holy Cross College (Autonomous), Nagercoil

### 3. Awards and Achievements

**Best paper award** for a research paper entitled ‘Green approach to mitigate dibutyl adipate pollution using *Chlorella vulgaris* NRMC F- 128’ presented in International Conference on “Frontiers in Biological and Medical Sciences” organized by Department of Zoology, Seethalakshmi Ramaswami College, Tiruchirappalli on 19.01.2024 to 20.01.2024.

**Best paper presentation award** for a research paper entitled ‘Biodegradation of Dibutyl Adipate by Green Microalgae *Chlorella vulgaris*’ presented in International Conference on “Applied Biosciences” organized by Department of Botany, St. Mary’s College (Autonomous), Thoothukudi on 28.03.2023 to 29.03.2023.