

Name	Dr. R. Mary Santhi
Qualification	M.Sc., M.Phil., Ph.D.
Designation	Assistant Professor
Year of Joining	17/06/2019
Specialization	Algae and Microbiology
Email id	<u>rms.santhi@gmail.com</u>



Seminars/ Workshops/ FDP/ Conferences - Presented

Title of the Workshop/ Seminar/ FDP	Type	Paper Presented/ Participated	Title of the Paper	Organized By	Date
National Seminar On Traditional Knowledge Systems and Biodiversity	National	Paper presented	Biofilm inhibition of <i>Candida albicans</i> by Semi Purified Fraction from <i>Hypnea musciformis</i>	Biodiversity Club and Department of Botany, Vimala College (Autonomous), Thrissur, Kerala, supported by Kerala State Biodiversity Board, Government of Kerala, Thiruvananthapuram	16.01.2025 to 17.01.2025
International Seminar on Plant Response to Climate Change	International	Paper presented	Biofilm reduction assay by semi purified fraction of <i>Hypnea musciformis</i> against <i>Candida albicans</i>	Department of Botany and Research Centre, Scott Christian College (Autonomous), Kanniyakumari District	08.12.2022 - 09.12.2022

Biodiversity Conservation and Ecosystem Restoration	National	Paper presented	Diversity of macroalgae communities and their influence by physico chemical parameters in the coasts of Hare Island, India	Biodiversity Club, Department of Botany, Vimala College (Autonomous), Thrissur, Kerala	10.12.2021
Virtual International Conference on Advancements in Arts, Science and Humanities	International	Paper presented	Membrane-targeted action antifungal mechanism of <i>Hypnea musciformis</i> against <i>Candida albicans</i>	Association of Global Academicians and Researchers (AGAR) and Association of Indian Biologists (AIB)	06.06.2021
Webinar on Novel Biotechnological Approach to Sustain in Pandemic Scenario	International	Paper Presented	An antifungal mechanism of <i>Hypnea musciformis</i> lies in membrane-targeted action within <i>Candida albicans</i>	Department of Biotechnology & Research SNMV CAS, Coimbatore, Tamil Nadu	18.05.2020 to 21.05.2020
Emerging Trends in Algae	National	Paper presented	Membrane-targeted antifungal mechanism of semi purified fraction of <i>Hypnea musciformis</i> within <i>Candida albicans</i>	Department of Botany, St. Xavier's College (Autonomous), Palayamkottai, Tirunelveli	28.11.2019 & 29.11.2019

Group theory & its applications in Chemistry	National	Paper presented	Screening of antifungal activity of red marine algae <i>H. musciformis</i> against medically and agriculturally important fungi	Department of Chemistry, Nesamony Memorial Christian College, Marthandam	01.08.2019 & 02.08.2019
--	----------	-----------------	---	--	-------------------------

Workshop/ Webinar/ FDP - Participation

Title of the Workshop/ Webinar/ FDP	Type	Paper Presented/ Participated	Title of the Paper	Organized By	Date
A 7 day online Faculty Development Program on The Art of Publishing Articles in Indexed Journals	National Level	Participated	-	MCC Research Colloquium, Madras Christian College (Autonomous), Chennai	12.02.2025 to 19.02.2025
In silico Modelling approach for Pharmaceutical Sciences	-	Participated	-	Department of Chemistry, St. Mary's College (Autonomous), Thoothukudi	27.08.2024 to 29.08.2024
Elevate your Research: Author and Editor Insights for Publishing in a Reputed Journal	State Level	Participated	-	Marian Research Forum, St. Mary's College (Autonomous), Thoothukudi	20.08.2024
NEP 2020 Orientation & Sensitization Programme	National	Participated	-	UGC-MMTTC, University of Kerala, Kariavattom, Thiruvananthapuram, Kerala	17.07.2024 – 29.07.2024
7 Days Online Faculty Development Program on Essential Skills for Professional Development in	-	Participated	-	STAR International Foundation for Research and Education	01.07.2024 to 07.07.2024

Higher Education					
“AI – Tools for Teaching and Learning”	-	Participated	-	IQAC, St. Xavier’s College (Autonomous), Palayamkottai & Xavier Board of Higher Education, Tamil Nadu Chapter	06.04.2024
Fourth One Week Online Faculty Development Programme on Advanced Research Methodology	National	Participated	-	Amiruddaula Islamia Degree College, Lucknow & Science Tech Institute, Lucknow	21.03.2024 to 27.03.2024
National Level Virtual Faculty Development Program on “Emerging Trends in Plant Sciences”	National	Participated	-	Department of Botany, Bishop Heber College (Autonomous), Thiruchirappalli	04.03.2024 to 11.03.2024
Webinar on “Open Access Publishing & Research Metrics “	-	Participated	-	Researchers’ Forum & IQAC, Sree Narayana College, Kollam, Kerala	16.03.2024
Webinar on "NIRF & KIRF"	National	Participated	-	IQAC, Sree Narayana College, Kollam, Kerala	17.10.2023
Four Weeks International Online Faculty Development Programme on “Medically Important Bacteria (Phase I)”	International	Participated	-	Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India in association with Biotechnology Society of Nepal (BSN) and Laboratory of Chemical and Biological Analysis (LAQB),	09.10.2023 - 08.11.2023

				Western Rio Janeiro State University (UEZO), Rio de Janeiro, Brazil	
Four Weeks International Online Faculty Development Programme on “Microbiology Laboratory Techniques (Phase I)”	Internatio nal	Participated	-	Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India in association with Biotechnology Society of Nepal (BSN) and Laboratory of Chemical and Biological Analysis (LAQB), Western Rio Janeiro State University (UEZO), Rio de Janeiro, Brazil	04.09.2023 - 03.10.2023
Faculty Induction Programme	National	Participated	-	UGC-HRDC University of Kerala Thiruvananthapu ram, Kerala	25.07.2023 – 23.08.2023
10 day online FDP on The Art of Research and Publishing in Indexed Journals	-	Participated	-	MCC Research Colloquium and Internal Quality Assurance Cell, Madras Christian College (Autonomous), Chennai - 59	15.05.2023 – 22.05.2023
Conference on “Research Publication: An Integrative and Dynamic Approach”	-	Participated	-	Marian Research Forum, St. Mary’s College (Autonomous), Thoothukudi	19.04.2023
Three Day Faculty Training Programme on “Molecular Modeling and Dynamics”	-	Participated	-	Marian Star Center, Department of Chemistry, St. Mary’s College (Autonomous),	13.02.2023 - 15.02.2023

				Thoothukudi	
National Webinar on “Emerging Trends in Microbial Technology”	National	Participated	-	PG and Research Department of Botany, St. Mary’s College (Autonomous), Thoothukudi	08.09.2022
Online Reference Management Tools for Manuscripts and Theses	National	Participated	-	Library Committee and Marian Research Forum, St. Mary’s College (Autonomous), Thoothukudi	07.05.2022
IP Awareness/Training program (Online)	National	Participated	-	Intellectual Property Office, Chennai	29.07.2022
One-Day Workshop on User Awareness on Sophisticated Instruments	University	Participated	-	Manonmaniam Sundaranar University, Tirunelveli	18.04.2022
International Webinar on “Importance of IP in Scientific Research – An Overview”	International	Participated	-	Research Forum in Association with IQAC, Sir Syed College, Taliparamba, Kerala	01.03.2022
Two Weeks International Workshop on “Research Methodology, Academic Writing and Publishing	International	Participated	-	Research Forum in Association with IQAC, Sir Syed College, Taliparamba, Kerala	15.02.2022 – 26.02.2022
Advances in Plant Sciences	National	Participated	-	Department of Botany, Goa University	03.02.2022 & 04.02.2022
Angiosperm Systematics	International	Participated	-	St. Berchman’s College (Autonomous), Changanassery, Kerala	03.02.2022

Angiosperm Systematics	International	Participated	-	St. Berchman's College (Autonomous), Changanassery, Kerala	02.02.2022
Online Workshop on "Molecular Systematics"	National	Participated	-	Department of Botany, Madras Christian College, Chennai	22.11.2021 – 01-12-2021
Virtual Training on "Biodiversity of Microalgae and its Identification Techniques – tapping the ancient power of microalgae"	National	Participated	-	PG Department of Botany, Srimad Andavan Arts and Science College (Autonomous), Trichy, Tamil Nadu	28.10.2021 – 30.10.2021
Refresher Course on Life Sciences	National	Participated	-	UGC-HRDC, University of Hyderabad	13.09.2021 – 25.09.2021
Workshop on Academic writing: Ethical Issues	International	Participated	-	Global Institute of Statistical Solutions	05.08.2021 – 07.08.2021
e-Training Programme on Dehydrated Floral Crafts	National	Participated	-	CSIR-National Botanical Research Institute, Rana Pratap Marg, Lucknow	20.07.2021
FDP on Biotechnology for 21st Century	International	Participated	-	Marian Star Centre, PG and Research Department of Botany, St. Mary's College (Autonomous), Thoothukudi	19.07.2021 – 24.07.2021
e-Training Programme on Home Gardening	National	Participated	-	CSIR-National Botanical Research Institute, Rana Pratap Marg, Lucknow	06.07.2021 – 08.07.2021

FDP on Basic Techniques in Microbiology (Phase IV)	International	Participated	-	Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India	04.07.2021 - 08.08.2021
International workshop on “Current Trends in Biostatistics”	International	Participated	-	Department of Zoology and Research Centre in association with IQAC, Nesamony Memorial Christian College, Marthandam	29.06.2021
Webinar on “Why Should We Care For The Environment”	National	Participated	-	Enviro Club of Guru Nanak College (Autonomous), Chennai	29.06.2021
Two Day Orientation Programme on Towards a Constructive Framework for Fostering Challenge and Innovation in Higher Education	National	Participated	-	Internal Quality Assurance Cell, St. Mary’s College (Autonomous), Thoothukudi	07.06.2021 - 08.06.2021
National Level Workshop on E-content Development	National	Participated	-	Internal Quality Assurance Cell, St. Ann’s College, Kokrajhar, Assam	07.06.2021 - 12.06.2021
Summer Internship on Application of DNA Barcodes in Systematics and Biogeography-a Phyloinformatics Approach	National	Participated	-	Department of Botany, Madras Christian College (Autonomous), Chennai-57	03.06.2021 - 19.06.2021
Certificate Course in Bioinformatics	National	Participated	-	Academic Council of Association of Indian Biologists,	01.06.2021 - 28.06.2021

				Tirupattur, Tamil Nadu	
National STC on Graphics Design for Teachers	National	Participated	-	Marian Star Centre, St. Mary's College (Autonomous), Thoothukudi	26.05.2021 - 31.05.2021
Webinar on "Covid 19 Variants - Health and Safety"	National	Participated	-	Department of Microbiology, St. Mary's College (Autonomous), Thoothukudi	19.05.2021
Faculty Training Programme on "Computational Biology"	FTP	Participated	-	PG and Research Department of Zoology, St. Mary's College (Autonomous), Thoothukudi	06.05.2021 - 11.05.2021
Online FDP On Advanced Research Methodology	FDP	Participated	-	Amiruddaula Islamia Degree College & Science Tech Institute, Lucknow, Uttar Pradesh	21.03.2021 - 27.03.2021
Impact of Climate Change on Western Ghats Biodiversity	FDP	Participated	-	Vivekananda College, Madurai	26.02.2021
Workshop on Fungal Systematics and Technological Advances	National	Participated	-	Department of Botany, Shri Shivaji Science College, Shivaji Nagar, Morshi Road, Amravati (MS), India and Mycological Society of India	29.11.2020 - 30.11.2020
Online Teaching-Make it Easy	National	Participated	-	Internal Quality Assurance Cell (IQAC), Government Arts and Science College (Women), Sathankulam, Tamil Nadu	09.08.2020
Biotechnology: A Sustainable Energy	International	Participated	-	PG and Research Department of	08.08.2020

Solution				Zoology, St. Mary's College, Thoothukudi, Tamil Nadu	
Natural Pesticide for the Betterment of Eco-system - Present Status and Future Prospects	National	Participated	-	PG & Research Department of Botany, V.O.Chidambaram College, Thoothukudi, Tamil Nadu	12.06.2020
Time for Nature	National	Participated	-	Research Centre and Post Graduate Department of Environmental Sciences All Saints' College, Thiruvananthapuram, Kerala	12.06.2020
Webinar on Resurgence of the Society in the post COVID -19 Scenario	National	Participated	-	Department of Zoology, Botany and IQAC, Sree Ayyappa College For Women, Chunkankadai, Kanniyakumari, Tamil Nadu	11.06.2020
Webinar on Biodiversity - Urgent And Existential Concerns	-	Participated	-	PG and Research Department of Botany, St. Mary's College, Thoothukudi, Tamil Nadu	10.06.2020
Webinar on Current Status of Pteridophytes of Western Ghats of India	National	Participated	-	Sarah Tucker College (Autonomous), Tirunelveli, Tamil Nadu	29.06.2020
Workshop on ICT Tools for Smart Teaching	National	Participated	-	Servite College of Education for Women, Thogamalai, Karur, Tamil Nadu	18.06.2020 - 20.06.2020
Webinar on Mangrove Environment	National	Participated	-	A. Veeriya Vandayar Memorial Sri Puspham College (Autonomous),	05.06.2020

				Poondi, Thanjavur, Tamil Nadu	
Online Course on Time For Nature	International	Participated	-	International Youth Society, Tuticorin Chapter	05.06.2020
Webinar on Biodiversity Conservation with Special Reference to Agrobiodiversity	National	Participated	-	PG & Research Department of Botany, V.O.Chidambara m College, Thoothukudi, Tamil Nadu	04.06.2020
Webinar on Bioprospecting of Medicinal Plants: Challenges and Opportunities	National	Participated	-	PG & Research Department of Botany, V.O.Chidambara m College, Thoothukudi, Tamil Nadu	03.06.2020
Webinar on Mössbauer Spectroscopy - Elucidation of Magnetic Compou nds in Biological System	-	Participated	-	PG and Research Department of Botany, St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu	02.06.2020 & 03.06.2020
Webinar on Life Sciences Challenges and Opportunities: COVID-19 Pandemic	National	Participated	-	Faculty of Life Sciences, St. Aloysius' College (Autonomous), Jabalpur	01.06.2020 & 02.06.2020
Webinar on Invisible Scholars: Students with Learning Disabilities and Identification of Students with Learning Disabilities	International	Participated	-	IQAC, St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu	02.06.2020
Webinar on Covid- 19 Evolution and Pathogenicity	National	Participated	-	Department of Biotechnology, Maris Stella college, Vijayawada, Krishna District, Andhra Pradesh	29.05.2020

Webinar on Insights into Emerging Diseases - Diagnosis and Therapeutics	National	Participated	-	Department of Zoology, Lady Doak College (Autonomous), Madurai, Tamil Nadu	26.05.2020 to 28.05.2020
Webinar on Teacher Resilience – The Blueprint for Efficiency during Uncertainty	-	Participated	-	St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu	23.05.2020
Webinar on Phytotherapeutics - Drug Discovery	National	Participated	-	Department of Botany & Biotechnology, St. Pious X Degree & PG College for Women, Hyderabad	23.05.2020
Webinar on “Novel Insights on Rapid Diagnostic Methods and Drug Discovery for COVID – 19	State Level	Participated	-	Department of Zoology, Sadakathullah Appa College (Autonomous), Tirunelveli, Tamil Nadu	20.05.2020
Two-day online workshop on Mental Health and Psychological Consideration During Lockdown	-	Participated	-	St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu	13.05.2020 to 14.05.2020
Webinar on Psychological First-Aid	-	Participated	-	Department of Psychology, St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu	11.05.2020

Resource Person

Title of the Programme	Type	Resource Person	Beneficiaries	Organized By	Date
Hands-on Training in Analytical Techniques for Nutrient Evaluation for Holy Cross Home Science College Thoothukudi as a Part of the MoU	Intercollegiate	Resource person	PG students	Department of Botany, St. Mary's College (Autonomous), Thoothukudi	05.03.2025
MoU – Faculty Exchange Program	Intercollegiate	Resource person	UG students	Department of Botany, Holy Cross College (Autonomous), Nagercoil	16.02.2024
Additional Examiner for Environmental Science Evaluation Board for April 2023 Semester Examination	Intercollegiate	Additional Examiner	UG students	The Office of the Controller of Examinations Sadakathullah Appa College (Autonomous) Tirunelveli	29.05.2023 - 31.05.2023
Training Programme on Biological Techniques	Intercollegiate	Resource person	PG students of Holy Cross Home Science College, Thoothukudi	Department of Botany, St. Mary's College (Autonomous), Thoothukudi	26.09.2022 - 30.09.2022

Papers Published

Paper Title	Author(s)	Journal	Year	Volume	Issue	Page No.
Biofilm inhibition of <i>Candida albicans</i> by Semi Purified Fraction from <i>Hypnea musciformis</i>	Mary Santhi. R	Traditional Knowledge Systems and Biodiversity ISBN: 978-81-7255183-4	2025			111-118

Induction of Apoptosis in <i>Candida albicans</i> by Semi-purified Fraction of <i>Hypnea musciformis</i>	Mary Santhi. R	Asian Journal of Biological Life Sciences	2023	12	1	44-48
Biofilm reduction assay by semi purified fraction of <i>Hypnea musciformis</i> against <i>Candida albicans</i>	Mary Santhi. R	Proceedings of the International Seminar on Plant Response to Climate Change (PlantCliC-2022)				140-147
Antifungal studies on <i>Hypnea musciformis</i> against medically and agriculturally important fungi	Mary Santhi. R	Indian Hydrobiology	2021	20 No. 2		257-262
Antibacterial studies on <i>Hypnea musciformis</i> against selected bacterial pathogens	Mary Santhi. R	Indian Hydrobiology	2021	20 No. 2		251-256
The role of <i>Colocasia esculenta</i> L. schott in phytoremediation of detergents under laboratory conditions	Mary Santhi. R, Dharshini. M., Epziba. GG., Gowsalya. K., Harini. R., Jothi. MI and I. Lydia	Proceedings of UG Project under DBT-Star College Scheme				55-61
Assessment of Water Quality Parameters along the Selected Coastal areas of Thoothukudi	Akila K, Justina MA., Aswini JA., Brightsha. J, Iwin. TC., Chitra., Santhi RM and RM Evanjaline	Proceedings of UG Project under DBT-Star College Scheme				
An antifungal mechanism of <i>Hypnea</i>	Mary Santhi. R	Genes Magazine	2020	2	-	20

<i>musciformis</i> lies in membrane-targeted action within <i>Candida albicans</i>						
Antifungal activity of <i>Hypnea musciformis</i> against medically and agriculturally important fungi	Mary Santhi. R and Thampi Raj. S	Proceedings of National Conference on Contemporary Issues	2019	-	-	208-211
Antibacterial studies on <i>Hypnea musciformis</i> against selected human pathogens	Mary Santhi, R and Thampi Raj, S.	Proceedings of National Conference on Contemporary Issues	2019	-	-	212-215
Antibacterial studies on <i>Hypnea musciformis</i> against selected pathogens	Mary Santhi, R.	International Journal of Scientific Development and Research	2019	4	5	459-463

Others:

Certificate Courses

Course	University /Institution	Class	Year
Experimental Biotechnology	NPTEL-AICTE		2021
Plant Tissue Culture and Molecular Techniques	Manonmaniam Sundaranar University, Tirunelveli	-	2016
Office Automation	Small Industries Service Institute	C+	2006

Responsibilities Held

- Member of Anti-Ragging cell 2024-2025
- Member of Research Advisory Committee 2021-2024
- Certificate course in charge 2021-2025
- Discipline Committee 2019-2021, 2024-2025
- Green campus 2019-2021

Awards Received & Achievements

- Best poster presentation award, 2019
- MS University IVth Rank, 2008 M.Sc., Botany
- UGC National Scholarship, 2007 for first rank
- MS University Ist Rank, 2006 B.Sc., Botany
- Stanley Jones merit Endowment prize, 2006

Employment Details

- 7th November 2014 – 30th April 2015, 29th August 2015 - 30th April 2016, 26th October 2016 – 20th December 2016, 5th January 2017 - 30th April 2017, Manonmaniam Sundaranar University, Tirunelveli.
- 8th February, 2010 – 21st April 2010, 16st June 2010 - 30th June 2011 (FDP vacancy), 1st July - 17th December 2011, Holy Cross College (Autonomous), Trichy.