



Dr.P. Rameshthangam

Professor & Head i/c

Contact

Address : Department of Nutrition and Dietetics
Alagappa University, Karaikudi – 630 003, Tamil Nadu, INDIA

Employee Number : 51510

Contact Phone (Office) : +91 4565 -228088

Contact Phone (Mobile) : +91- 9444834424

Contact e-mail(s) : rameshthangam@alagappauniversity.ac.in
dnad@alagappauniversity.ac.in

Website : <https://www.alagappauniversity.ac.in>

Academic Qualifications

Degree	Institution	Year	Branch	Class
Ph.D.	University of Madras	2002- 2008	Biotechnology	Highly Commended
M.Sc.,	Bharathidasan University	1999 -2001	Biochemistry	First Class
B.Sc.,	Bharathidasan University	1996-1999	Biochemistry	First Class

Teaching Experience : 18 Years

Position	Institution	Duration
Professor & Head i/c	Department of Nutrition and Dietetics	17-02-2024 – till date
Associate Professor & Head i/c	Department of Nutrition and Dietetics	26-08-2023 to 16-2-2024
Associate Professor	Department of Biotechnology/ Directorate of Distance Education, Alagappa University	17.02.2021 – 25.08.2023
Assistant Professor		25.02.2020 – 16.02.2021
Assistant Professor	Department of Biomedical Sciences, Alagappa University	04.06.2018 -24.02.2020
Assistant Professor	Department of Biotechnology, Alagappa University	25.02.2016 – 03.06.2018
Assistant Professor	Department of Biotechnology, Directorate of Distance Education, Alagappa University	17.02.2009 – 24.02.2016

PDF / Visiting Professor

Position	Institution	Duration
Research Associate	Madras Diabetic Research Foundation (MDRF), Chennai.	15.02.2008 - 16.02.2009

Research Experience

Total Research Experience : 18 Years

Position	Institution / University	Duration
Professor & Head i/c	Department of Nutrition and Dietetics	17-02-2024 – till date
Associate Professor & Head i/c	Department of Nutrition and Dietetics	26-08-2023 to 16-2-2024
Associate Professor	Department of Biotechnology, Directorate of Distance Education, Alagappa University	17.02.2021 – 25.08.2023
Assistant Professor		25.02.2020 – 16.02.2021
Assistant Professor	Department of Biomedical Sciences, Alagappa University	04.06.2018 – 24.02.2020
Assistant Professor	Department of Biotechnology, Alagappa University, Karaikudi	25.02.2016 – 03.06.2018
Assistant Professor	Directorate of Distance Education, Alagappa University	17.02.2009 – 24.02.2016
Research Associate	Madras Diabetic Research Foundation (MDRF), Chennai.	15.02.2008 - 16.02.2009

Academic and Additional Responsibilities

S.No	Position	University Bodies	Period	
			From	To
1.	Program Coordinator	M.Sc., Nutrition & Dietetics	2022	2023
2.	Program Coordinator	M.Sc., Home Science – Nutrition and Dietetics, Centre for Distance and Online Education	2018	Till date
3.	Program Coordinator	M.Sc., Microbiology, Centre for Distance and Online Education	2021	2023

Areas of Research

- **Functional foods and Nutrition**

- Microbial biotransformation of prebiotics: Development of process to produce prebiotics by exploring nutraceuticals, functional foods for enhanced health and disease prevention benefits.
- High content prebiotics: An alternate approach to purify the prebiotics and to improve the product quality and characteristics.

- **Bionanotechnology**

- Development of carbon-based nanomaterial as a potential therapy for Polycystic Ovary syndrome: Synthesis and characterization of fluorescence carbon dot as a nanocarrier dock with bioactive compound which inhibits the gene of LH hormone highest secretion.
- Development protein-based nanoparticles as a potential therapy for colorectal cancer and breast cancer. Synthesis and characterization of silk fibroin protein nanoparticles as a nanocarrier dock with bioactive compound which inhibits the gene of Bcl2. Synthesis and characterization of Human serum albumin protein nanoparticles as a nanocarrier dock with bioactive compound which inhibits BRCA1, PALB2 and MDM2 genes.

Patents Filed

Title	Applicant	Inventor	Application	Filed	Published	Patent Name
Gossypetin encapsulated silk fibroin nanocomposite based edible coating as a natural preservative for enhancing the shelf life of food products	Alagappa University, Karaikudi, Tamilnadu, India	1) Palanivel Rameshthangam 2) Muthumanickam Muthulakshmi	202541085405	09/09/2025	03/10/2025	CGPDTM Alerts
Novel antiviral agent from the plant <i>pongamia pinnata</i> and a process for the preparation of the said agent	University of Madras, Chepauk, Tamilnadu, India	1) Palaniappan Ramasamy 2) Palanivel Rameshthangam	1390/CHE/2005	2005-09-30	2007-09-28	BIG PATENTS, INDIA

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D	4	5
	M.Phil	2	-
Project	PG	9	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
39	48	06	24	10

Citation indices

Cumulative Impact Factor (as per JCR): 123.037

h-index : 18

i10 index : 25

Total Citations: 1626

Funded Research Projects

Completed Projects:

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	Entrepreneur in residence scheme under EIC Hub of RUSA 2.0	2023	2024	Microbial production of high purity prebiotic isomalto-oligosaccharides	3.55
2	Theme Based Research Project – RUSA 2.0 (Phase II)	2023	2024	Development of anti-microbial synbiotics using potential prebiotic isomalto-oligosaccharides with probiotic bacteria	3.44
3	Rashtriya Uchchatar Shiksha Abhiyan (RUSA) 2.0 (Phase I)	2019	2020	Development of anti-microbial synbiotics using potential prebiotic	

				isomalto-oligosaccharides with probiotic bacteria	3
4	UGC, Govt. of India	2011	2014	Molecular characterization, molecular docking studies and biocontrol effect of <i>Vibrio</i> bacteriophages from shrimp aquaculture environment (Co- PI)	8.50
5	Tamilnadu State Council for Science and Technology, Govt. of Tamilnadu	2009	2011	Genome characterization and molecular docking of <i>Bacillus</i> phages and their inhibitory effects against shrimp pathogenic bacteria (Co- PI)	1.89
6	UGC, Govt. of India	2011	2014	Antiviral activity of Chitin Nanoparticles against White Spot Syndrome Virus of <i>Penaeus monodon</i> Fabricius	9.89
7	Alagappa University Research Fund (AURF)	2009	2010	Exploring protein carbonylation as biomarker(s) in serum from subjects with impaired glucose tolerance (prediabetes) and patients with Type 2 diabetes	0.64

Distinctive Achievements / Awards

S.No	Award/Fellowship	Awarded by	Field/Category for which the award was given	Year of Award
1	Academic and Research Excellence Award	Alagappa University, Karaikudi	Outstanding Academic and Research Excellence Award	2025
2	Best Researcher Award	Scifax Company, Approved and Registered by Ministry of Corporate Affairs, Govt. of India.	Contribution and achievement in Innovative Research	2024
3	Certificate of Appreciation	Alagappa University	Contribution towards the enhancement of number of admissions during the year 2021-2022	2022
4	Promising Researcher Award	Alagappa University	Excellence in Research	2022
5	Research Excellence of RSquareL	Global Academicians & Research Network	RSquareL Value obtained from the research Work	2022
6	Karoly Ereky Teaching Excellence Award	International Multidisciplinary Research Foundation	Teaching Excellence	2022
7	Certificate of honor	The Chemical Industry and Engineering Society of China	Inclusion of high-cited papers by Chinese Journal of Engineering. The Chemical Industry and Engineering	2021

			Society of China	
8	Certification of Appreciation	Alagappa University	Contribution towards the enhancement of number of admissions during the year 2020-2021	2021
9	Vallal Alagappan Research Recognition Award	Alagappa University	Contribution towards the enhancement of Research Outcome of the University in the form of 'h' index	2021
10	Certificate of Appreciation	Alagappa University	Contribution made to "Theme based Research Project of RUSA 2.0"	2021
11	Fellow of Academy of Sciences	The Academy of Sciences, Chennai	Significant contribution for the advancement of sciences	2018
12	INSA visiting scientist award	Indian National Science Academy, Bahadur Shah Zafar Marg, New Delhi.	Academic Performance in the areas of Research Publication	2018
13	Har Gobind Khorana Best Young Scientist Award	Tamilnadu Scientific Research Organization, Tamilnadu, India	Research contribution in the field of Scientific research & Education	2018

Events organized in leading roles

Number of Seminars /Conferences /Workshops/ Events organized: 31

S.No.	Position	Programme	Duration	Institution
1.	Convenor & Organizing Secretary	"Nutritional Awareness Programme" at Solai Andavar Government Primary School, Kothari, Pallathur	08.01.2026	Department of Nutrition and Dietetics, Alagappa University
2.	Convenor & Organizing Secretary	Special Lectures on "Life Style Modification: Diet, Physical Activity and Stress" and "Emerging Food Safety Challenges in the Modern Food Sector"	22.12.2025	Department of Nutrition and Dietetics, Alagappa University
3.	Convenor & Organizing Secretary	Three-day workshop on 'Recent Trends in Sustainable Methods of Food Preservation'	23.10.2025 to 25.10.2025	Department of Nutrition and Dietetics, Alagappa University
4.	Convenor & Organizing Secretary	Industrial visit to NIFTEM-T, Tanjore	17.10.2025	Department of Nutrition and Dietetics, Alagappa University
5.	Convenor & Organizing Secretary	"Celebration of World Food Day-2025" – National Webinar on "Eat Right and"	16.10.2025	Department of Nutrition and Dietetics, Alagappa University

		Stay Bright: A Lifestyle Approach to Wellness”		
6.	Convenor & Organizing Secretary	Village Extension Programme (VEP) at Mathur Village	12.10.2025	Department of Nutrition and Dietetics, Alagappa University
7.	Convenor & Organizing Secretary	Anganwadi visit to Railway Station Anganwadi (Sakkottai Block)	24.09.2025	Department of Nutrition and Dietetics, Alagappa University
8.	Convenor & Organizing Secretary	“National Nutrition Month Celebration – 2025” – Health Awareness Programme on Balanced Diets and Nutrition	01.09.2025	Department of Nutrition and Dietetics, Alagappa University
9.	Convenor & Organizing Secretary	Food safety and training certificate (FoSTaC) program	06-08-2025	Department of Nutrition and Dietetics, Alagappa University in Association with Parikshan FSS (P) Ltd. Chennai
10.	Convenor & Organizing Secretary	Orientation programme for I M.Sc., Nutrition and Dietetics, Department of Nutrition and Dietetics.	17.07.2025	Department of Nutrition and Dietetics, Alagappa University
11.	Organizer	Radio Talk awareness programme on “POSHAN PAKHWADA WEEK -2025	22.04.2025	Department of Nutrition and Dietetics, Alagappa University, Karaikudi
12.	Organizer	Industrial visit on “ICMR-NIN, HYDERABAD	25.03.2025 & 28.03.2025	Department of Nutrition and Dietetics, Alagappa University, Karaikudi
13.	Convenor & Organizing Secretary	National Seminar cum workshop on “Nutritious Food product from natural sources	18.03.2025 & 19.03.2025	Department of Nutrition and Dietetics, Alagappa University, Karaikudi.
14.	Organizing Secretary	Village Extension Programme (VEP) at Illuppaikudi village, Karaikud	14.03.2025 to 16.03.2025	Department of Nutrition and Dietetics, Alagappa University, Karaikudi.
15.	Convenor & Organizing Secretary	Diet Counselling programme on “Special concern for women’s health - 2025	10.03.2025	Department of Nutrition and Dietetics, Alagappa University, Karaikudi
16.	Convenor & Organizing Secretary	Importance of Millets-Safe food	26.02.2025	Department of Nutrition and Dietetics, Alagappa University, Karaikudi
17.	Convenor & Organizing Secretary	Special lecture series on “Nutrition for Sports Performance	24-12-2024	Department of Nutrition and Dietetics, Alagappa University, Karaikudi
18.	Convenor & Organizing Secretary	Celebration of World Food Day-2024”- National Webinar on “Role of functional foods in Disease prevention	16.10.2024	Department of Nutrition and Dietetics, Alagappa University, Karaikudi
19.	Convenor & Organizing Secretary	“National Nutrition Month Celebration-2024”-Health Awareness on Balanced Diets	02.09.2024	Department of Nutrition and Dietetics, Alagappa University

		and Nutrition,		
20.	Convenor & Organizing Secretary	Orientation programme for I M.Sc., Nutrition and Dietetics, Department of Nutrition and Dietetics.	26.07.2024	Department of Nutrition and Dietetics, Alagappa University
21.	Convenor & Organizing Secretary	National Symposium on "Promoting Nutritional Diets through Millets	12.04.2024	Jointly organized by The Department of Nutrition and Dietetics, Alagappa University, and The National Institute of Food Technology, Entrepreneurship and Management, Thanjavur
22.	Organizing Secretary	Parents Teachers Meeting	28.03.2024	Department of Nutrition and Dietetics, Alagappa University
23.	Organizing Secretary	Diet Counseling Programme – Special Concern for women's health	08.03.2024	Department of Nutrition and Dietetics, Alagappa University
24.	Organizing Secretary	Special lecture series on "Application of nanoparticles in food microbiology"	27.02.2024	Department of Nutrition and Dietetics, Alagappa University
25.	Organizing Secretary	One-day workshop on "Food adulteration and its impact on health"	30.01.2024	Department of Nutrition and Dietetics, Alagappa University
26.	Organizing Secretary	Guest lecture series on "Nutrition and enhanced sports performance"	19.12.2023	Department of Nutrition and Dietetics, Alagappa University
27.	Organizing Secretary	One-day workshop on "Semi-Auto Chemistry Analyzer"	09.10.2023	Department of Nutrition and Dietetics, Alagappa University
28.	Organizing Secretary	Swatchhta Nutritional Food for Good Health on "Swatchhta Pakhwada 2023	06.09.2023	Department of Nutrition and Dietetics, Alagappa University
29.	Organizing Secretary	National Nutrition Week 2023	01.09.2023	Department of Nutrition and Dietetics, Alagappa University.
30.	Organizing Secretary	Induction programme for M.Sc., Nutrition and Dietetics 2023 -2025 batch	06.08.2023	Department of Nutrition and Dietetics, Alagappa University
31.	Organizing Secretary	Webinar on "Nutritional perspectives of adulthood"	20.09.202	Directorate of Distance Education, Alagappa University
32.	Organizing Secretary	Online Induction programme for M.Sc., Home Science – Nutrition and Dietetics & M.Sc., Microbiology (2021-2023 batch).	19.01.2022	Directorate of Distance Education, Alagappa University
33.	Organizing Secretary	Three days International conference on "Women Health Issues"	01.10.2021	Directorate of Distance Education & Department of Women Studies in

			02.10.2021 , 06.10.2021	Collaboration with Dr.B.R. Ambedkar University of Social Sciences, Mhow, Madhya Pradesh
34.	Organizing Secretary	Online Induction programme for M.Sc., Home Science – Nutrition and Dietetics (2020- 2022 batch)	02.02.2021	Directorate of Distance Education, Alagappa University
35.	Organizing Secretary	International Webinar on “Biotechnology: Application Area and Development Process	31.05.2020 to 02.06.2020	Directorate of Distance Education, Alagappa University
36.	Organizing Secretary	Three days international workshop on “E-content development for MOOCs among faculty members	10.09.2019 , 12.09.2019 , 13.09.2019	Digital Educational Cell, Alagappa University
37.	Organizing Secretary	RUSA 2.0 sponsored two days International Workshop on “Biomedical Applications in Translational Research (BATR-2019)	06.06.2019 & 07.06.2019	Department of Biomedical Sciences, Alagappa University in association with Semmelweis University, Budapest, Hungary
38.	Organizing Secretary	Two-day National Seminar on “Quality Education for the students belonging to the marginalized sectors in India (QESBMS – 2018)	15.03.2018 & 16.03.2018	Directorate of Distance Education, Alagappa University
39.	Organizing Secretary	National workshop on “Expansion and Enrichment of Distance Learning” (EEDL - 2012)	27.03.2012 & 28.03.2012	Directorate of Distance Education, Alagappa University

Papers presented in the National and International Events

Conferences / Seminars / Workshops: **80**

Events Participated

Number of Conferences/Seminars/Workshops: **68**

Overseas Exposure / Visits

S.No.	Purpose of visit	Country visited	Year
1.	25 th Asia Pacific biotechnology congress	Japan (Kyoto)	2019
2.	10 th International Conference on Nanomedicine and Nanotechnology in Health Care (Nanomedicine 2016)	Thailand (Bangkok)	2016

3.	Indo – Italy fellowship programme	Italy (Verona)	2009
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Membership

Professional Bodies

1. Annual Member, International Multidisciplinary Research Foundation (IMRF) No:22071 (2023).
2. Life Member of American Chemical Society (2022).
3. Life time member of the Institute of Engineering Research and Publication No:PM13629078 (2022).
4. Life time Member, Global Academicians & Researches Network, No: V1/3735 (2021)
5. Member, Indian Academicians and Researchers Association, M/M-1246,(2019)
6. Life Member, No:M373/BSS/2017, Bose Science Society, INDIA (2017).
7. Professional and Lifetime member of Institute of Scholars (2014).
8. Life Member, Indian Science Congress Association, L14684, Kolkata (2009)
9. Life Member, No: 760, Society for Biotechnologists (INDIA), Cochin.

Advisory Board

Year/Period	Name of the BoS/Administrative Committee / Academic Committee	Role
2023- 2025	Central Internal Quality Assurance (CIQA) cell, Alagappa University	Member
2025	Board of studies of B.Sc., Food and Nutrition, Affiliated Colleges, Alagappa University	Chairperson
2023-2025	Evaluation for M.Sc., Nutrition and Dietetics, Alagappa University	Chairperson
2024	Question paper setting, M.Sc., Biotechnology, Alagappa University	Chairperson
2023	Member of the Board of Studies of M.Sc., Home Science, Alagappa University	Member
2023-2025	Convocation Committee, Alagappa University	Member
2023, 2025	Board of Studies of M.Sc. Nutrition and Dietetics in regular mode, Alagappa University	Member
2023	Designed and introduced new Program M.Sc. Nutrition and Dietetics in regular mode, Alagappa University	Co-ordinator
2022	Board of Studies of M.Sc., Microbiology, DDE, Alagappa University	Chairperson
2022	Board of Studies of M.Sc. Home Science – Nutrition and Dietetics, DDE, Alagappa University	Chairperson
2022	Board of Studies of B.Sc., Biotechnology, Alagappa University	Member
2022	Board of Studies of B.Sc., Biochemistry, Alagappa University	Member
2022	Board of Studies of B.Sc., Home Science, Alagappa University	Member
2017	Designed and introduced new course M.Sc. Home Science – Nutrition and Dietetics in DDE, Alagappa University	Co-ordinator
2017	Board of Studies of M.Sc., Home Science – Nutrition and Dietetics, DDE, Alagappa University	Member
2017	Board of Studies of M.Sc., Microbiology, DDE, Alagappa University	Member
2016	Board of Studies of B.Sc., Zoology, DDE, Alagappa University	Member
2016	Board of Studies of M.Sc., Zoology, DDE, Alagappa University	Member

Selected Research Publications

S. No	Authors/Title of the paper/Journal	Impact Factor
1.	Muthumanickam, M, Rameshthangam, P. (2025) . GC-MS screening, characterization and in vitro antioxidant, antimicrobial and cytotoxic potential of gossypetin from <i>Moringa oleifera</i> . Pharmacological Research - Natural Products, 8, 100332.	10.5
2.	Saravanan, R., Rameshthangam, P. (2025) . Evaluation of prebiotic potential and selective utilization of isomalto-oligosaccharides by <i>Lactobacillus</i> strains: an <i>in vitro</i> study. Journal of Food Science and Technology, 1-12	3.3
3.	Rameshthangam P , Muthulakshmi M, Ambiga, C, Sindhamani, S. (2025). GC/MS analysis and green-synthesis of silver nanoparticles using <i>Senna auriculata</i> flower extract: Antibacterial, antioxidant effects and anticancer effects. Microbial Pathogenesis. 199, 107274 (Elsevier).	3.5
4.	Rameshthangam, P. , Kumar, P., Muthulakshmi, M., Kumar, S.R. (2022). Anti-cancer and bactericidal activity of electrospun chitosan/poly (ethylene oxide)/papaya nanofibres, <i>Applied Nanoscience</i> , 13(9),6105-6113.	3.075
5.	Saravanan, R., Rameshthangam, P. (2024) . Purification, characterization of a novel α -glucosidase from <i>Debaryomyces hansenii</i> strain MCC 0202 and chromatographic separation for high purity isomalto-oligosaccharides production. <i>Process Biochemistry</i> , 136,109-118. [Elsevier, Netherlands] (IF-4.88).	4
6.	Subbulakshmi, A., Durgadevi, S., Anitha, S., Govarthanan, M., Biruntha, M., Rameshthangam, P. , Kumar, P. (2022). Biogenic gold nanoparticles from <i>Gelidiella acerosa</i> : bactericidal and photocatalytic degradation of two commercial dyes, <i>Applied Nanoscience</i> , 13(6),4033-4042. [Springer, Switzerland].	4.11
7.	Arulkumar, A., Paramasivam, S., Rameshthangam, P. , Paramithiotis, S. (2021). Detection of Biogenic Amines in Indian Fish and Fishery Products Consumed in Southeast Coast Region of India, <i>Journal of Aquatic Food Product Technology</i> , 30(1), 95-106.	1.8
8.	Saravanan, R., Rameshthangam, P. (2020) . High purity prebiotic isomalto-oligosaccharides production by cell associated transglucosidase of isolated strain <i>Debaryomyces hansenii</i> SCY204 and selective fermentation by <i>Saccharomyces cerevisiae</i> SYI065, <i>Process Biochemistry</i> , 98, 93-105. [Elsevier, Netherlands] (IF-, Citation: 3).	4
9.	Arulkumar, A., Satheesh kumar, K., Paramasivam, S., Rameshthangam, P. , Miranda, M. (2020). Chemical Biopreservative Effects of Red Seaweed on the Shelf Life of Black Tiger Shrimp (<i>Penaeus monodon</i>), <i>Journal of Foods</i> , 9 (5), 634. [MDPI].	5.1
10.	Rekha, K., Mohan Kumar, R., Rameshthangam, P. , Usha, B. (2019). Impact of <i>Pseudomonas putida</i> RRF3 on the root transcriptome of rice plants: defense response, secondary metabolism, and root exudation, <i>Journal of Biosciences</i> , 44:98. [Springer, United States].	2.6
11.	Arulkumar, A., Paramasivam, S., Rameshthangam, P. , Paramithiotis, S. (2019). Evaluation of psychrophilic, mesophilic, histamine forming bacteria and biogenic amine content in the muscle of mud spiny lobster, <i>Panulirus polyphagus</i> (HERBST, 1793) during ice storage, <i>Journal of Food Safety</i> , 39(1): e12582. [Wiley publisher, United States].	1.8
12.	Solairaj, D., Rameshthangam, P. , Suryanarayanan, V., Singh, S. K., Sri Ramkumar, V. (2018). <i>In vitro</i> and <i>in silico</i> studies of chitin and chitosan based nanocarriers for	5

	curcumin and insulin delivery, <i>Journal of Polymers and the Environment</i> . [Springer, United States] 26(10): 4095-4113.	
13.	Rameshthangam, P. , Chitra, J.P. (2018). Synergistic anticancer effect of green synthesized nickel nanoparticles and quercetin extracted from <i>Ocimum sanctum</i> leaf extract, <i>Journal of Materials Science & Technology</i> , 34, 508–522. [Elsevier, Netherlands]	14.3
14.	Rameshthangam, P. , Solairaj, D., Gnanapragasam, A., Ramasamy, P. (2018). Chitin and Chitinases: Biomedical and environmental applications of chitin and its derivatives, <i>Journal of Enzymes</i> . 1(1):20-43. [Open access pub.org, United States].	5.939
15.	Arulkumar, A., Paramasivam, S., Rameshthangam, P. , Rabie, M.A. (2017). Changes on biogenic, volatile amines and microbial quality of the blue swimmer crab (<i>Portunus pelagicus</i>) muscle during storage, <i>Journal of Food Science and Technology</i> . 54 (8), 2503-2511. [Wiley publisher, United States].	3.3
16.	Arulkumar, A., Balamurugan, A., Paramasivam, S., Rameshthangam, P., Paramithiotis, S. (2017). Physicochemical and microbiological changes during drying of Wolf Herring (<i>Chirocentrus dorab</i>) and Coastal Trevally (<i>Carangoides coeruleopinnatus</i>), <i>Journal of Aquatic Food Product Technology</i> . 26:8, 929-939. [Taylor & Francis, United Kingdom].	1.3
17.	Chitra, J., Rameshthangam, P. , Usha, B. (2017). Green synthesized nickel nanoparticles for targeted detection and killing of <i>S. typhimurium</i> , <i>Journal of Photochemistry and Photobiology B: Biology</i> , 174, 58–69. [Elsevier, Netherlands].	3.7
18.	Arulkumar, A., Paramasivam S., Rameshthangam, P. (2017). Changes on biogenic, volatile amines and microbial quality of the blue swimmer crab (<i>Portunus pelagicus</i>) muscle during storage, <i>Journal of Food Science and Technology</i> . [Springer, United States].	3.3
19.	Solairaj, D., Rameshthangam, P. , Arunachalam, G. (2017). Anticancer activity of silver and copper embedded chitin nanocomposites against human breast cancer (MCF-7) cells, <i>International Journal of Biological Macromolecules</i> , 105, 608–619.	8.5
20.	Solairaj, D., Rameshthangam, P. , Muthukumaran, P., J. Wilson. (2017). Studies on electrochemical glucose sensing, antimicrobial activity and cytotoxicity of fabricated copper nanoparticle immobilized chitin nanostructure, <i>International Journal of Biological Macromolecules</i> . 101:668-679. [Elsevier, Netherlands]	8.5
21.	Arulkumar, A., Paramasivam, S., Rameshthangam, P. (2017). Effects of turmeric (<i>Curcuma longa</i>) on shelf life extension and biogenic amine control of cuttlefish (<i>Sepia brevimana</i>) during chilled storage, <i>CyTA - Journal of Food</i> , [Taylor & Francis, United Kingdom].	2.5
22.	Solairaj, D., Rameshthangam, P. (2017). Silver nanoparticle embedded α -chitin nanocomposite for enhanced antimicrobial and mosquito larvicidal activity, <i>Journal of Polymers and the Environment</i> , 25(2): 435–452. [Springer, United States]	5
23.	Chitra, J., Rameshthangam, P. (2016). Application of L-arginine functionalized green synthesized nickel nanoparticles as gene transfer vector and catalyst, <i>Journal of Experimental Nanoscience</i> , 1193-1212. [Taylor & Francis, United Kingdom].	2.8
24.	Chitra, J., Rameshthangam, P. , Solairaj, D. (2016). Screening antimicrobial activity of nickel nanoparticles synthesized using <i>Ocimum sanctum</i> leaf extract, <i>Journal of Nanoparticles</i> , 13 Pages. [Hindawi, Egypt].	2.253
25.	Muthukumaran, P., Raju, C., Sumathi, C., Ravi, S., Solairaj, D., Rameshthangam, P. , Wilson, J., Alwarappan, S., Rajendran, S. (2016). Cerium doped nickel-oxide nanostructures for riboflavin biosensing and antibacterial applications, <i>New Journal of Chemistry</i> , 40:2741-2748. [Royal Society of Chemistry, United Kingdom].	2.5
26.	Solairaj, D., Rameshthangam, P. , Srinivasan, P. (2016). Adsorption of Methylene Blue, Bromophenol Blue and Coomassie Brilliant Blue by α -chitin nanoparticles, <i>Journal of Advanced Research</i> , 7(1):113–124. [Elsevier, Netherlands].	13
27.	Chitra, J., Rameshthangam, P., Solairaj, D. (2015). Green synthesis of nickel nanoparticles using <i>Ocimum sanctum</i> and their application in dye and pollutant adsorption, <i>Chinese Journal of Chemical Engineering</i> , 23, 1307–1315. [Elsevier, Netherlands].	3.7

Books Published

S.No.	Title	Year	Authors	Publisher	ISBN
1.	Moringa oleifera as an apoptosis inducer for colorectal cancer	2025	Muthumanickam Muthulakshmi Rameshthangam Palanivel Gomathirajashyamala Lakshmanan	LAP LAMBERT Academic Publishing Dodo books Indian Ocean Ltd and OmniScriptum S.R.L publishing group, Republic of Moldova	978-620-842-5814
2.	Silk Fibroin Nanoparticles: Properties, Preparations and Applications	2024	Muthumanickam Muthulakshmi & Dr.Palanivel Rameshthangam	LAP LAMBERT Academic Publishing Dodo books Indian Ocean Ltd and OmniScriptum S.R.L publishing group, Republic of Moldova	9 7 8 -6 2 0 - 7 6 5 2 7 1 - 6
3.	Recent trends and industrial applications of <i>Saccharomyces Cerevisiae</i>	2024	P.Rameshthangam, & M.Muthulakshmi	LAP LAMBERT Academic Publishing Dodo books Indian Ocean Ltd and OmniScriptum S.R.L publishing group, Republic of Moldova	9 7 8 -6 2 0 - 7 4 7 6 6 9 -5
4.	Nanoengineered antimicrobial coatings: Action mechanisms and biomedical applications	2023	P.Rameshthangam, D. Solairaj & S.Ganeshkumar	LAP LAMBERT Academic Publishing Dodo books Indian Ocean Ltd and Omni Scriptum S.R.L publishing group, Republic of Moldova	978-620-6-15141-8
5.	Green Synthesis and applications of nickel nanoparticles	2019	J. Chitra & P. Rameshthangam	LAP LAMBERT Academic Publishing GmbH & Co. KG, Saarbrücken, Deutschland	978-3-659-25466-6
6.	Pathogenesis and novel herbal drug for White Spot Syndrome Virus	2011	P. Rameshthangam & P. Ramasamy	LAP LAMBERT Academic Publishing GmbH & Co. KG, Saarbrücken, Deutschland	978-3-8473-1273-4
7.	A basic laboratory manual for Biochemistry	2017	P.Rameshthangam, D. Solairaj & J.P. Chitra	LAP LAMBERT Academic Publishing GmbH & Co. KG, Saarbrücken, Deutschland	978-3-330-03250-7

Books Chapter Published

Title	Year	Authors	Publisher	ISBN
Properties and Applications of Chitosan Based Nanocomposites in "Marine Polysaccharides- Advances and Multifaceted Applications"	2019	P.Rameshthangam, Solairaj, D., Chitra J.	Pan Stanford Publishing Pte. Ltd, Singapore	978-981-4800-49-5

Resource persons in various capacities

Invited lectures				
S.No.	Name of the Programme	Organizer of the Programme	Topic	Date
1.	Annual sports	Muthiah Alagappa Matriculation Higher Secondary School	"Wings of Sportsmanship – 2025"	14-11-2025
2.	World food day- 2025	JSA college of Agriculture and Technology, Avatti, Cuddalore	World Food Day- 2025 "(Hand in Hand for Better Foods and a Better Future)"	14-10-2025
3.	Orientation Programme	Department of Tourism and Hotel Management , Alagappa University	Nutrition and diet in health	29-08-2025
4.	One-day national seminar	Department of Nutrition and Dietetics , Thassim Beevi Abdul Kadar College For Women, Kilakarai, Ramanathapuram Dt.	Prebiotic and Probiotic – A section of Nutrients	07.03.2025
5.	One-day national seminar	Thulasi College of Arts and Science for Women, Department of Biotechnology, Tuticorin	Unveiling the power of Microbes: insights into their role in science and society	17.09.2024
6.	The Refresher Course in Botany	UGC - Malaviya Mission Teacher Training Centre, Madurai Kamaraj University, Madurai.	Functional prebiotic oligosaccharides – Improving intestinal gut health	16.12.2023
7.	Swachhata Pakhwada	Alagappa University, Karaikudi	Swachhata Nutritional food for good health	06.09.2023
8.	National Nutritional Week Celebrations	Seethalakshmi Achi College for Women, Department of Zoology Pallathur.	National Nutritional Week-2023	15.09.2023
9.	National Service Scheme (NSS)	Alagappa University	Biomedical Waste Management	25.04.2022
10.	25 th Asia Pacific biotechnology congress	Conference series LLC LTD, , Koyoto, Japan	Synthesis of isomalto-oligosaccharides by cell bound transglucosidase of <i>Debaryomyces hansenii</i>	01.05.2019 & 02.05.2019

11.	Role of Youth Red Cross Programme Officers in Service to Humanity	Youth Red Cross & Indian Red Cross Society	Global warming	05.03.2019
12.	Creation of Scientific Awareness	Caussanel College of Arts and Science, Muthupettai	Green energy for the future	13.02.2019
13.	National seminar on "Frontiers in Biotechnology and Bioenergy"	Department of Biotechnology, Dr. Umayal Ramanathan College for Women, Karaikudi.	Biomedical Waste Management	09.08.2018 & 10.08.2018
14.	SWAYAM awareness programme	Puratchi thalaivar Dr. MGR arts and science college for women, Uchipuli	Introduction to SWAYAM	23.10.2018
15.	Remedial classes	Department of Bioinformatics, Alagappa University, Karaikudi	Synthesis and characterization of nanoparticles	24.03.2017
16.	Remedial classes	Department of Bioinformatics, Alagappa University, Karaikudi	Nanobiotechnological applications in bioinformatics	24.03.2017
17.	National Seminar on Nanotechnological Approaches in Pollution Control	Department of Physics, Biotechnology, Electronics and Communication, Dr. Umayal Ramanathan College for Women, Karaikudi.	Chitin nanostructures and its applications	18.01.2017
18.	10th International Conference on Nanomedicine and Nanotechnology in Health Care (Nanomedicine 2016)	Omics Conference Series LLC, Bangkok, Thailand	In-vitro and in-silico studies on curcumin loaded chitin and chitosan nanoparticles from shrimp shells	25.07.2016 26.07.2016 27.07.2016 28.07.2016 .
19.	Biorhythm 2016	Department of Biochemistry, Idhaya College for Women, Sarugani, Sivagangai.	Studies on WSSV in Shrimp	30.03.2016

Dr.P.Rameshthangam
Professor