



**Dr.P. Rameshthangam**  
Associate Professor & Head i/c

### Contact

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### 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 : 15 Years

Position	Institution	Duration
Associate Professor & Head i/c	Department of Nutrition and Dietetics	26-08-2023 to till date
Associate Professor of Biotechnology	Directorate of Distance Education, Alagappa University, Karaikudi	17-02-2021 to 25-08-2023
Assistant Professor of Biotechnology	Directorate of Distance Education, Alagappa University, Karaikudi	25-02-2020 to 16-02-2021
Assistant Professor	Department of Biomedical Sciences, Alagappa University, Karaikudi	04-06-2018 to 24-02-2020
Assistant Professor	Department of Biotechnology, Alagappa University, Karaikudi	25-02-2016 to 03-06-2018
Assistant Professor of Biotechnology	Directorate of Distance education, Alagappa University, Karaikudi	17-02-2009 to 24-02-2016

## PDF/ Visiting Professor

Position	Institution	Duration
Research Associate	Madras Diabetic Research Foundation (MDRF), Chennai.	15-02-2008 to 16-02-2009

## Research Experience

**Total Research Experience : 16 Years**

Position	Institution / University	Duration
Associate Professor & Head i/c	Department of Nutrition and Dietetics	26-08-2023 to till date
Associate Professor of Biotechnology	Directorate of Distance Education, Alagappa University, Karaikudi	17-02-2021 to 25-08-2023
Assistant Professor of Biotechnology	Directorate of Distance Education, Alagappa University, Karaikudi	25-02-2020 to 16-02-2021
Assistant Professor	Department of Biomedical Sciences, Alagappa University, Karaikudi	04-06-2018 to 24-02-2020
Assistant Professor	Department of Biotechnology, Alagappa University, Karaikudi	25-02-2016 to 03-06-2018
Assistant Professor of Biotechnology	Directorate of Distance education, Alagappa University, Karaikudi	17-02-2009 to 24-02-2016
Research Associate	Madras Diabetic Research Foundation (MDRF), Chennai.	15-02-2008 to 16-02-2009

## Academic and Additional Responsibilities

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

## Areas of Research

- Functional foods and Nutrition
- Nanobiotechnology

## Patents Filed

Title	Applicant	Inventor	Application	Filed	Published	Patent Name
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) <b>Palanivel Rameshthangam</b>	1390/CHE/2005	2005-09-30	2007-09-28	BIG PATENTS, INDIA

## Research Supervision/Guidance

Program of Study		Completed	Ongoing
Research	Ph.D	3	4
	M.Phil	2	-
Project	PG	3	-

## Publications

International		National	Others
Journals	Conferences	Conferences	Books/Chapters/Monographs/Manuals
36	38	23	8

**Cumulative Impact Factor (as per JCR)** : 145

**h-index** : 16

**i10 index** : 22

**Total Citations** : 1230

## Funded Research Projects

### Ongoing 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 <b>(Principal Investigator)</b>	3.55 lakhs
2.	Theme Based Research Project – RUSA 2.0	2023	2024	Studies on protein-based nanoparticles against colorectal cancer <b>(Principal Investigator)</b>	3.44 lakhs

### Completed Projects:

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1.	Rashtriya Uchcharat Shiksha Abhiyan (RUSA) 2.0	2019	2020	Development of anti-microbial synbiotics using potential prebiotic isomalto-oligosaccharides with probiotic bacteria <b>(Principal Investigator)</b>	3 lakhs
2.	UGC, Govt. of India	2011	2014	Molecular characterization, molecular docking studies and biocontrol effect of <i>Vibrio</i> bacteriophages from shrimp aquaculture environment. <b>(Co- Principal Investigator)</b>	8.50 lakhs
3.	Tamilnadu State Council for Science and Technology, Govt. of Tamilnadu	2009	2011	Genome characterization and molecular docking of Bacillus phages and their inhibitory effects against shrimp pathogenic bacteria <b>(Co- Principal Investigator)</b>	1.89 lakhs
4.	UGC, Govt. of India	2011	2014	Antiviral activity of Chitin Nanoparticles against White Spot Syndrome Virus of <i>Penaeus monodon</i> Fabricius <b>(Principal Investigator)</b>	9.89 lakhs
5.	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 <b>(Principal Investigator)</b>	0.64 lakhs

**Other Fund Received as Research Mentor:**

S. No	Agency	Period	Details	Budget (Rs.)
1.	Rashtriya Uchchatar Shiksha Abhiyan (RUSA) 2.0	2019	Travel grant received for paper presentation in the 25 <sup>th</sup> Asia Pacific biotechnology congress, held on 1 <sup>st</sup> & 2 <sup>nd</sup> May 2019 in Kyoto, Japan.	1,00,000/-
2.	Indian National Science Academy (INSA)	2018	Cash price for INSA Visiting scientist program ( <b>IIT Roorke</b> )	30,000/-
3.	Alagappa University	2022	Cash Price for Promising Research Award	3000/-

**Distinctive Achievements / Awards**

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

			number of admissions during the year 2020-2021	
9.	<b>Vallal Alagappan Research Recognition Award</b>	Alagappa University, Karaikudi	Contribution towards the enhancement of Research Outcome of the University in the form of 'h' index	2021
10.	<b>Certificate of Appreciation</b>	Alagappa University, Karaikudi	Contribution made to "Theme based Research Project of RUSA 2.0"	2021
11.	<b>Young Achiever Award</b>	Institute of Scholars	Significant contribution for the publication of INDIAN PATENT	2020
12.	<b>Swayam Achiever's Award</b>	Digital Education cell, Alagappa University, Karaikudi.	Motivating the students to secure good results in UGC-SWAYAM/MOOCs Exams	2019
13.	<b>Fellow of Academy of Sciences</b>	The Academy of Sciences, Chennai	Significant contribution for the advancement of sciences	2018
14.	<b>INSA visiting scientist award</b>	Indian National Science Academy, Bahadur Shah Zafar Marg, New Delhi.	Academic Performance in the areas of Research Publication	2018
15.	<b>Dr. APJ Abdul Kalam Award for Scientific Excellence</b>	MARINA LABS, Research and Development, N.T.Patel Road, Nerkundram, Chennai 600 107	Academic Performance in the areas of Research Publication	2018
16.	<b>Har Gobind Khorana Best Young Scientist Award</b>	Tamilnadu Scientific Research Organization, Tamilnadu, India	Research contribution in the field of Scientific research & Education	2018
17.	<b>Fellow of Bose Scientific Society (FBSS)</b>	Bose Scientific Society, Mura Bhavan, Rajagopalapuram(po), Pudukkottai-622003	Research contribution in the field of Nanobiotechnology	2017
18.	<b>Letter of appreciation award</b>	Alagappa University, Karaikudi	Contributing as a member of hospitality team to NAAC PEER TEAM	2017
19.	<b>Appreciation award</b>	Alagappa University, Karaikudi	Significant service for acquiring A+ grade in the third Cycle of NAAC accreditation	2017

## Events organized in leading roles

Number of Seminars /Conferences /Workshops/ Events organized: 15

S.No.	Position	Programme	Duration	Institution
1.	Organizing Secretary	Special lecture series on “Application of nanoparticles in food microbiology”	27-02-2024	Department of Nutrition and Dietetics, Alagappa University, Karaikudi.
2.	Organizing Secretary	One-day workshop on “Food adulteration and its impact on health”	30.01.2024	Department of Nutrition and Dietetics, Alagappa University, Karaikudi.
3.	Organizing Secretary	Guest lecture series on “Nutrition and enhanced sports performance”	19.12.2023	Department of Nutrition and Dietetics, Alagappa University, Karaikudi.
4.	Organizing Secretary	One-day workshop on “Semi-Auto Chemistry Analyzer”	09.10.2023	Department of Nutrition and Dietetics, Alagappa University, Karaikudi.
5.	Organizing Secretary	Swatchhta Nutritional Food for Good Health on “Swatchhta Pakhwada 2023	06.09.2023	Department of Nutrition and Dietetics, Alagappa University, Karaikudi.
6.	Organizing Secretary	National Nutrition Week 2023	01.09.2023	Department of Nutrition and Dietetics, Alagappa University, Karaikudi.
7.	Organizing Secretary	Induction programme for M.Sc., Nutrition and Dietetics 2023 -2025 batch	06-08-2023	Department of Nutrition and Dietetics, Alagappa University, Karaikudi.
8.	Organizing Secretary	Webinar on “Nutritional perspectives of adulthood”	20-09-202	Directorate of Distance Education, Alagappa University
9.	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
10.	Organizing Secretary	Three days International conference on “Women Health Issues”	01-10-2021, 02-10-2021, 06-10-2021	Directorate of Distance Education & Department of Women Studies in Collaboration with Dr.B.R. Ambedkar University of Social Sciences, Mhow, Madhya Pradesh
11.	Organizing Secretary	Online Induction programme for M.Sc., Home Science – Nutrition and Dietetics (2020-2022	02-02-2021	Directorate of Distance Education, Alagappa University

		batch)		
12.	Organizing Secretary	International Webinar on "Biotechnology: Application Area and Development Process	31-05-2020 to 02-06-2020	Directorate of Distance Education, Alagappa University
13.	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, Karaikudi
14.	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 Semmelwels University, Budapest, Hungary
15.	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, Karaikudi
16.	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, Karaikudi.

## Papers presented in the National and International events

### Conferences / Seminars / Workshops: 68

1. C. Ambiga, M. Muthulakshmi, S. Sindhamani, **P.Rameshthangam**, "Development and characterization of human serum albumin based nanoparticles for biomedical applications". Presented in the 5<sup>th</sup> International conference on "Recent trends in microbiology (RTM-2024)", held on 26<sup>th</sup> & 27<sup>th</sup> February 2024, organized by Department of Microbiology, Alagappa University.
2. R. Saravanan, **P.Rameshthangam**. "Synthesis of high purity probiotic isomalto-oligosaccharides (IMO)...Probiotic efficiency studies" ". Presented in the two days international conference on "Recent trends in vaccines and biomaterials for animal health (RTVBAH-2024)", held on 1 & 2 February 2024, organized by Department of Animal Health Management, Alagappa University.
3. M. Muthulakshmi, C. Ambiga, S. Sindhamani, **P.Rameshthangam**, L.Gomathi rajashyamala " "Silk fibroin nanoparticles loaded gossypetin as a potential drug delivery system". Presented in the two days international conference on "Recent trends in vaccines and biomaterials for animal health (RTVBAH-2024)", held on 1 & 2 February 2024, organized by Department of Animal Health Management, Alagappa University.
4. S. Sindhamani, M. Muthulakshmi, C. Ambiga, **P. Rameshthangam**, R. Ramya. "Bottom-up synthesis of fluorescence carbon dots for biomedical applications". Presented in the two days international conference on "Recent trends in vaccines and biomaterials for animal health (RTVBAH-2024)", held on 1 & 2 February 2024, organized by Department of Animal Health Management, Alagappa University.
5. M. Muthulakshmi, C. Ambiga, S.Sindhamani, **P.Rameshthangam**, L.Gomathi rajashyamala. "Gossypetin encapsulated silk fibroin nanoparticles based edible coating for enhancing the shelf life of food products". Presented in the two days National conference on "Sustainable wellness through Noni, Medicinal Plants, Microbes and Bio-molecules (SWNMPMB-2023)", held on 27<sup>th</sup> & 28<sup>th</sup> November 2023, Organized by Madurai Kamaraj University, School of Biological



Science, Madurai.

6. R. Saravanan, **P. Rameshthangam**. High Purity prebiotic isomalto-oligosaccharides production by cell associated transglucosidase of isolates stain *Debryomyces hansenii* SCY204 and selective fermentation by *Saccharomyces cerevisiae* SYI065. Paper presented in the National Level Biotechnology Conference, held on 30<sup>th</sup>& 31<sup>st</sup> October 2023, Organized by Manipal Institute of Technology, Department of Biotechnology, Manipal, India.
7. R. Saravanan, **P. Rameshthangam**. Purification, Characterization of a Novel  $\alpha$ -glucosidase from an isolated strain of *Debaryomyces hansenii* and chromatographic separation for high purity isomalto-oligosaccharides production. Paper presented in the 6<sup>th</sup> International conference on Food and Nutrition, held on 25<sup>th</sup> & 26<sup>th</sup> October 2023, Organized by USFN Universal society of Food and Nutrition, India.
8. M.Muthulakshmi, C. Ambiga, S.Sindhamani, **P.Rameshthangam**. Paper presented on “Design and optimization of quercetin-loaded silver nano delivery system for antigestational diabetic activity with improved oral delivery” in the two days international conference on “unveiling the Frontiers in life science-ICFLS 2023” held on 17.08.2023 & 18.08.2023 at Shrimati Indira Gandhi College, Tiruchirappalli.
9. C.Ambiga, M.Muthulakshmi, S.Sindhamani, **P.Rameshthangam**. Paper presented on “Promoting cell apoptosis, Promising way to treat Breast Cancer with medicinal plant” in the two days international conference on “unveiling the Frontiers in life science-ICFLS 2023” held on 17.08.2023 & 18.08.2023 at Shrimati Indira Gandhi College, Tiruchirappalli.
10. S.Sindhamani, M.Muthulakshmi, C. Ambiga, **P.Rameshthangam** Paper presented on “Fascinating luminescent carbon dots as potential novel nanodrug discovery for treatment of Polycystic ovary Syndrome” in the two days international conference on “unveiling the Frontiers in life science-ICFLS 2023” held on 17.08.2023 & 18.08.2023 at Shrimati Indira Gandhi College, Tiruchirappalli.
11. L.Gomathi rajashyamala, R.Anitha, **P.Rameshthangam**. Nutritional status and dietary profile of college students studying in Karaikudi – A cross sectional study. Paper presented in the UGC sponsored two-day international conference on “Revamping food and nutrition for the next generation addressing personal, public and planetary sustainable health held on 9<sup>th</sup> to 10<sup>th</sup> March 2023 Organized by Avinashilingam University for Women, Coimbatore.
12. M.Muthulakshmi, R. Abirami, **P. Rameshthangam, Sanjeev Kumar Singh**. *In Silico* studies on protein-based nanoparticles against colorectal cancer, presented a poster/ attended the 2<sup>nd</sup> International Conference cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” (ICSBCADD’ 2022) held on 21<sup>st</sup> to 25<sup>th</sup> November, 2022 Organized by Department of Bioinformatics Alagappa University, Karaikudi.
13. M.Muthulakshmi, P. Kumar and **P. Rameshthangam**. Antibacterial activity of green synthesized silver nanoparticles using leaf extract, *Artemisia pallens* Wall. ex Dc. Paper presented in the international conference on “Antimicrobial resistance and microbiome under changing climate”, held on 10<sup>th</sup> to 12<sup>th</sup> October 2022, organized by Department of Microbiology, School of Life Sciences, Pondicherry University, Puducherry.
14. C. Ambiga, **P. Rameshthangam**. Recent trends in molecular techniques on clinical microbiology. Paper presented in the International conference on “Emerging outlook and recent trends in microbiology”, held on 26<sup>th</sup> August 2022, organized by Shrimati Indira Gandhi College, Tiruchirappalli.
15. M.Muthulakshmi, **P. Rameshthangam**. Green synthesis and characterization of silver nanoparticles from flower extract *Senna auriculata* for biomedical applications. Paper presented in the International conference on “Emerging outlook and recent trends in microbiology”, held on 26<sup>th</sup> August 2022, organized by Shrimati Indira Gandhi College, Tiruchirappalli.
16. R. Saravanan, **P. Rameshthangam**. High Purity prebiotic isomalto-oligosaccharides production by cell associated transglucosidase of isolates stain *Debryomyces hansenii* SCY204 and selective fermentation by *Saccharomyces cerevisiae* SYI065. Paper presented in the international conference on Advances in Science, Engineering and Technology, held on 29<sup>th</sup> – 30<sup>th</sup> December 2021, Organized by Institute for Engineering Research and Publication, Puducherry.
17. J. Chitra, J Jeba Mercy, J Jeyakanthan, **P. Rameshthangam**, R.Viji, M. Nachiappan. Successive adsorptive removal of anionic and cationic heavy metals and dyes from water using surface modified cheese whey protein. Paper presented in the SPARC and RUSA 2.0 sponsored international conference on recent trends in Bioplastics (RTB-2019), held on 09<sup>th</sup> and 10<sup>th</sup>

December 2019, organized by Department of Microbiology, Alagappa University, Karaikudi.

18. **P. Rameshthangam**, P. Gopinath, S. RajKumar, P. Kumar, S. Thilagavathy, A. Gnanapragasam. Electrospun chitosan/poly(ethylene oxide)/papaya nanofibers for highly efficient antibacterial activity. Paper presented in the 2<sup>nd</sup> International conference on "Molecular Physiology, Therapeutics and Experimental Medicine (MP-TEM 2019)", held on 24<sup>th</sup> & 25<sup>th</sup> July, 2019, Organized by Department of Animal Health and Management, Alagappa University, Karaikudi. [ISBN: 978-81-909148-0-2]
19. **P. Rameshthangam**, R. Saravanan. Synthesis of isomalto-oligosaccharides by cell bound transglucosidase of *Debaryomyces hansenii*". Paper presented in the 25<sup>th</sup> Asia Pacific biotechnology congress, held on 1<sup>st</sup> & 2<sup>nd</sup> May 2019 in Kyoto, Japan. DOI: 10.4172/2327-5073-C2-048.
20. R. Saravanan, **P. Rameshthangam**. Production of Isomalto-oligosaccharides by cell bound  $\alpha$ -glucosidase of *Debryomyces hansenii*. Paper presented in the 3<sup>rd</sup> International conference on *Recent trends in Microbiology*, held on 24<sup>th</sup> & 25<sup>th</sup> January 2019, Organized by Department of Microbiology, Alagappa University, Karaikudi. [ISBN -978-93-88398-26-8].
21. J. Chitra, **P. Rameshthangam**. Photothermal effects of green synthesized nickel oxide nanoparticles for targeted killing of *Salmonella typhimurium*. Paper presented in the 3<sup>rd</sup> International conference on *Recent trends in Microbiology*, held on 24<sup>th</sup> & 25<sup>th</sup> January 2019, Organized by Department of Microbiology, Alagappa University, Karaikudi. [ISBN -978-93-88398-26-8].
22. D. Solairaj, P. Rameshthangam, V. Suryanarayanan, Sanjev Kumar Singh. *In vitro* and *in silico* studies on insulin delivery potential of chitin and chitosan nanoparticles. Paper presented in the 10<sup>th</sup> National symposium cum workshop on "*Recent trends in structural bioinformatics and computer aided drug design*", held on 20<sup>th</sup> - 23<sup>rd</sup> February, 2018, Organized by Department of Bioinformatics, Alagappa University, Karaikudi.
23. J. Chitra, **P. Rameshthangam**, Colorimetric detection of *Salmonella typhimurium* using green synthesized nickel oxide nanoparticles. Paper presented in the 2<sup>nd</sup> International conference on *Recent trends in Microbiology*, held on 11<sup>th</sup> & 12<sup>th</sup> January 2018, Organized by Department of Microbiology, Alagappa University, Karaikudi. [ISBN -978-93-87102-50-7]
24. D. Solairaj, **P. Rameshthangam**, A. Gnanapragasam. Preparation, characterization and anticancer potential of silver embedded chitin nanocomposite against human breast cancer MCF-7 cells. Paper presented in the 2<sup>nd</sup> International conference on *Recent trends in Microbiology*, held on 11<sup>th</sup> & 12<sup>th</sup> January 2018, Organized by Department of Microbiology, Alagappa University, Karaikudi. [ISBN -978-93-87102-50-7]
25. R. Saravanan, **P. Rameshthangam**. Screening, isolation and biochemical characterization of transglucosidase producing yeast. Paper presented in the National conference on *Bioprocessing India - Recent trends in Bioprocessing for Healthcare, Energy and Environment*, held on 9<sup>th</sup> -11<sup>th</sup> December 2017, Organized by Indian Institute of Technology, Guwahati.
26. J. Chitra, **P. Rameshthangam**, D. Solairaj. Adsorptive removal of anionic, cationic and azo dyes using green synthesized nickel nanoparticles. Paper presented in International Conference on *Membrane Technology and its Applications (MEMSEP 2017)*, held on 21<sup>st</sup> - 23<sup>rd</sup> February 2017. Organized by Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli - 620 024, Tamilnadu, India.
27. Arulkumar, S. Paramasivam, **P. Rameshthangam**. Antioxidant effects of red seaweed extract on the preservation of black tiger shrimp (*Penaeus monodon*) during ice storage. Paper presented in *Recent trends in microbiology*, held on 7<sup>th</sup> and 8<sup>th</sup> December 2016. Organized by Department of Microbiology, Alagappa University, Karaikudi 630003, Tamil Nadu, India. (ISBN: 9789384193720)
28. D. Solairaj, **P. Rameshthangam**. Chitin/copper nanocomposite with enhanced antimicrobial activity against bacterial and fungal strains. Paper presented in *Recent trends in microbiology*, held on 7<sup>th</sup> and 8<sup>th</sup> December 2016. Organized by Department of Microbiology, Alagappa University, Karaikudi 630003, Tamil Nadu, India. (ISBN: 9789384193720)
29. J. Chitra, **P. Rameshthangam**, D. Solairaj. Application of *Ocimum sanctum* leaf extract synthesized nickel nanoparticles as antimicrobials. Paper presented in International Conference on *Environment and Health in Changing Climate (ICEHCC 2016)*, held on 14<sup>th</sup> - 16<sup>th</sup> September, 2016. Organized by Department of Environmental Biotechnology, School of Environmental Sciences Bharathidasan University, Tiruchirappalli - 620 024, Tamilnadu, India.

30. Arulkumar, S. Paramasivam, R. Rajaram, **P. Rameshthangam**. Concentration of heavy metals and biogenic amines in black tiger shrimp (*Penaeus monodon*) from Palk Strait, India. Paper presented in International Conference on *Environment and Health in Changing Climate (ICEHCC 2016)*, held on 14<sup>th</sup> - 16<sup>th</sup> September, 2016. Organized by Department of Environmental Biotechnology, School of Environmental Sciences Bharathidasan University, Tiruchirappalli - 620 024, Tamilnadu, India.
31. **P. Rameshthangam**, D. Solairaj. *In-vitro* and *in-silico* studies on curcumin loaded chitin and chitosan nanoparticles from shrimp shells. Paper presented in 10<sup>th</sup> International Conference on *Nanomedicine and Nanotechnology in Health Care (Nanomedicine 2016)*, held on 25<sup>th</sup> to 28<sup>th</sup> July 2016, Organized by Omics Conference Series LLC, Bangkok, Thailand.(ISSN: 2157-7439).
32. D. Solairaj, **P. Rameshthangam**, J. P. Chitra, P. Muthukumaran and J. Wilson, Non-enzymatic sensing of glucose using a glassy carbon electrode modified with chitin/copper nanocomposite. Paper presented in International conference on Recent Trends in Biosciences (ICRTB 2016), held on 07<sup>th</sup> to 09<sup>th</sup> April, 2016. Organized by Biosciences Department, Alagappa University, Karaikudi 630003, Tamil Nadu, India (ISBN 978-81-928690-9-4).
33. R. Saravanan, **P. Rameshthangam**, Manish Jain. Screening, isolation and biochemical characterization of transglucosidase producing yeast isolates. Paper presented in International conference on *Recent Trends in Biosciences (ICRTB 2016)*, held on 07<sup>th</sup> to 09<sup>th</sup> April, 2016. Organized by Biosciences Department, Alagappa University, Karaikudi 630003, Tamil Nadu, India (ISBN 978-81-928690-9-4).
34. Arulkumar, S. Paramasivam and **P. Rameshthangam**, Contribution of psychrophilic and mesophilic bacteria on the formation of biogenic amines in mud spiny lobster (*Panulirus polyphagus*). Paper presented International conference on *Recent Trends in Biosciences (ICRTB 2016)*, held on 07<sup>th</sup> to 09<sup>th</sup> April, 2016. Organized by Biosciences Department, Alagappa University, Karaikudi 630003, Tamil Nadu, India (ISBN 978-81-928690-9-4).
35. Solairaj Dhanasekaran & **Rameshthangam Palanivel**. Electrochemical studies on chitin nanoparticles isolated from shrimp shells. Paper presented in Fourth international Conference on *Frontiers in Nanoscience and Technology (Cochin Nano - 2016)*, held on 20<sup>th</sup> - 23<sup>rd</sup> February 2016, Organized by Department of Physics, Cochin University of Science and Technology, Cochin, Kerala, India.
36. Chitra Jeyaraj Pandian, **Rameshthangam Palanivel** and Solairaj Dhanasekaran. Synergistic effect of *Ocimum Sanctum* leaf extract synthesized quercetin and nickel nanoparticles on breast cancer cell lines. Paper presented in International Conference on *Frontiers in Life Sciences (ICFLS-'16)*, held on 7<sup>th</sup> & 8<sup>th</sup> January, 2016, organized by Department of Botany, St. Joseph's College (Autonomous), Tiruchirappalli, Tamil Nadu, India.
37. **Rameshthangam Palanivel**, Chitra Jeyaraj Pandian and Solairaj Dhanasekaran. Plasmid DNA and green synthesized nickel nanoparticles complexes formulated for gene delivery. Paper presented in *Indian Genetics Congress*, held on 4<sup>th</sup> - 6<sup>th</sup> March, 2015, organized by Department of Genetic Engineering, SRM University, Chennai, Tamil Nadu, India.
38. **P. Rameshthangam**, D. Solairaj, S.K. Singh, V. Suryanarayanan and P. Srinivasan. A study on chitin-drug interactions: a computational approach. Paper presented in *Indian Genetics Congress*, held on 4<sup>th</sup> - 6<sup>th</sup> March, 2015, organized by Department of Genetic Engineering, SRM University, Chennai, Tamil Nadu, India.
39. Solairaj Dhanasekaran, **Rameshthangam Palanivel** and Srinivasan Pappu. Study on antifungal activity of  $\alpha$ -chitin/silver nanocomposite against pathogenic fungi using resazurin microtitre plate assay. Paper presented in *55th Annual Conference of Association of Microbiologists of India & National Conference on Empowering Mankind with Microbial Technologies (AMI-EMMT-2014)*, held on 12<sup>th</sup> - 14<sup>th</sup> November, 2014, organized by Tamil Nadu Agricultural University, Coimbatore, India.
40. Chitra Jeyaraj Pandian, **P. Rameshthangam** & Solairaj Dhanasekaran. Characterization of nickel nanoparticles synthesized using leaf extract of *Ocimum Sanctum*. 24<sup>th</sup> Annual conference of *Indian association for Angiosperm Taxonomy (IAAT) and International Conference on Trends in Plant Systematics (TIPS)*, held on 31<sup>st</sup> October - 2<sup>nd</sup> November 2014, organized by Department of Plant Science, Bharathidasan University, Tiruchirappalli, Tamilnadu.
41. Solairaj Dhanasekaran & **P. Rameshthangam**. Mosquito larvicidal activity of  $\alpha$ -chitin/silver nanocomposite against fourth instar larvae of *Aedes aegypti*. International conference on

*Physiology and Medicine*, held on 15<sup>th</sup> – 17<sup>th</sup> October, 2014, organized by Department of Zoology, Periyar University, Salem, Tamilnadu.

42. R. Vanajothi, P. Srinivasan & **P. Rameshthangam**. Ligand-based pharmacophore mapping and virtual screening for the identification of potential DDR1 inhibitors. 6th National symposium cum workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design, held on February 18th-21st, 2014, organized by Department of Bioinformatics, Alagappa University, Karaikudi, Tamilnadu.
43. S. Rajamanikandan, P. Srinivasan & **P. Rameshthangam**. Discovery of small molecule inhibitors of GacA using molecular modeling and virtual screening approach. 6th National symposium cum workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design, held on February 18th-21st, 2014, organized by Department of Bioinformatics, Alagappa University, Karaikudi, Tamilnadu.
44. Solairaj Dhanasekaran, **Ramesththangam Palanivel** and Srinivasan Pappu. Microtiter plate assay to determine antibacterial activity of  $\alpha$ -chitin/silver nanocomposite. Paper presented in National conference on *Innovations, implementations and controversies of animal biotechnology*, organized by Laboratory of Aquabiotics/ Nanoscience department of animal science, Bharathidhasan University, Tiruchirappali, Tamil Nadu. 20<sup>th</sup> and 21<sup>st</sup> March 2014.
45. **Rameshthangam, P**, Solairaj, D, Srinivasan, P. Antibacterial activity of  $\alpha$ -chitin/silver nano composites against *Proteus Vulgaris*. Paper presented in the 54<sup>th</sup> Annual conference of Association of microbiologists of India (AMI-2013) & International symposium on "*Frontier discoveries and innovations in microbiology and its interdisciplinary relevance (FDMIR – 2013)*", Organised by Department of Microbiology Maharshi Dayanand University, Rohtak, Haryana, 17<sup>th</sup> – 20<sup>th</sup> November, 2013.
46. **Rameshthangam, P** & Solairaj, D. Effect of pH, Time and Concentration in Methylene Blue Dye Adsorption by  $\alpha$ -Chitin Nanoparticles Isolated from Shrimp Shells. Paper presented in the International Seminar on "*Recent trends in Aquatic animal biotechnology*" (RTAAB' 2013), Organised by Department of Animal Health & Management, Alagappa University, Karaikudi, 21<sup>st</sup> – 22<sup>nd</sup> October 2013.
47. **Rameshthangam, P** & Solairaj, D. Isolation and Characterisation of  $\alpha$ -Chitin nanoparticles from the shells of *Penaeus Monodon fabricius* from the Gulf of Mannar, India. Paper presented in the National Symposium on *Nanosciences and Nanotechnology*, Organised by Karunya University, Coimbatore, September 30<sup>th</sup> – October 1<sup>st</sup> 2013.
48. Srinivasan, P., Sudha, A., Umamaheswari, N., and Vanajothi, R., **Rameshthangam, P**. Modeling of Quorum Sensing Regulatory Protein of *Vibrio harveyi* from shrimp aquaculture system and *In silico* Prediction of Active Drugs. Paper presented in the *9th Asian Fisheries & Aquaculture Forum*, Organized by Shanghai Ocean University, China, April 21<sup>st</sup> – 25<sup>th</sup>. 2011.
49. Vanajothi, R., Sudha, A., Manikandan, R., **Rameshthangam, P**, and Srinivasan, P. PCR based genetic variability analysis of spotted bollworm *Earias Vitella*. Paper presented in the National Conference on "*Emerging trends in Biological Research*", Organized by Department of Zoology, University of Madras, during 21-22, February 2011.
50. S. Rajamanikandan, R. Vanajothi, A. Sudha, **P. Rameshthangam**, P. Srinivasan. Computational detection of deleterious SNPS and their effect on sequence and structural level of the FGFR2 gene. International conference on *Bioinformatics and systems Biology (INCOBS)* organized by Zoology wing – DDE Annamalai University, Annamalai Nagar during 16<sup>th</sup> -17<sup>th</sup> February 2011.
51. M. Nishandhini, K. Sureka, A. Sudha, **P. Rameshthangam**, P. Srinivasan. Homology modelling of Protease from *Proteus mirabilis* and molecular docking for exploration of drugs. National Symposium cum Workshop on "*Recent Trends in Structural Bioinformatics and Computer Aided Drug Design*" [SBCADD'2010] during December 20th- 22nd, 2010.
52. Sudha, P. **Rameshthangam** and P. Srinivasan. Anti-HRV 2 evaluation of MDL-860 and its analogues by structure- based virtual screening. *National Symposium cum Workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design" [SBCADD'2010]* December 20<sup>th</sup>- 22<sup>nd</sup>, 2010.
53. K. Rajaguru, P. Srinivasan and **P. Rameshthangam**. Applications of Bioinformatics. *World Tamil Conference 2010* held at Coimbatore, Tamil Nadu during June 2010.
54. K. Rajaguru, V. Suryanarayanan, P. Srinivasan, **P. Rameshthangam**, R. Manikandan and P. Ramasamy. Inhibition of *Vibrio* species by medicinal plants through molecular docking studies.

*World Tamil Conference 2010* held at Coimbatore, Tamil Nadu during June 2010.

55. **P. Rameshthangam**, P. Srinivasan and K. Rajaguru. Applications of Biotechnology in Shrimp Culture Development. *World Tamil Conference 2010* held at Coimbatore, TamilNadu during June 2010.
56. **P. Rameshthangam**, P. Srinivasan and P. Ramasamy. Prevention and Control of White Spot Syndrome Virus in Shrimp. *World Tamil Conference 2010* held at Coimbatore, Tamil Nadu during June 2010.
57. **P. Rameshthangam** and P. Srinivasan. Modern approaches in Biotechnology. National Seminar on *Evolving strategies for employability of students in higher education* organized by Department of Life Long Learning, Alagappa University, Karaikudi during 23<sup>rd</sup> & 24<sup>th</sup> April 2010.
58. K. Rajaguru, S. Vishnu Priya, **P. Rameshthangam** and P. Srinivasan. Comparative analysis of the effect of natural and synthetic compounds to control pathogenic bacterium *Proteus mirabilis* by molecular docking studies. *Third Indo-Korean joint seminar on Medicinal Plant Research* held at Avinashilingam University, Coimbatore on 23<sup>rd</sup> February 2010.
59. K. Rajaguru, M. Pradeeba, **P. Rameshthangam** and P. Srinivasan. Restriction of the Pathogen, Burkholderia pseudomallei with natural derived compounds from the Medicinal Plants, Tamarindus indica and Dimocarpus longan by Molecular Docking Studies. International Conference on *Bioinformatics and System Biology* held at Annamalai University during February 19-21, 2010.
60. P. Srinivasan, K. Rajaguru, R. Manikandan, C. Arulvasu, **P. Rameshthangam**. In silico determination of inhibition of target proteins by 1, 2 disubstituted idopyranose in diabetes mellitus. International Symposium on *Emerging Trends in Biomedical and Nanobiotechnology: Relevance to Human* at Acharya Nagarjuna University, Guntur during 19-21, December, 2009.
61. Sudha, P. Srinivasan, K. Rajaguru, and **P. Rameshthangam**. Protective effect of *Achras zapota* Linn. seed extract in carbon tetrachloride induced hepatotoxicity in rats. International Symposium on *Emerging Trends in Biomedical and Nanobiotechnology: Relevance to Human* at Acharya Nagarjuna University, Guntur during 19-21, December, 2009.
62. **Rameshthangam, P** and P.Srinivasan. Environmental Impact of Aquaculture during shrimp production. UGC sponsored seminar on *Promoting Environmental Values among the Teacher Trainees at Secondary Level* organized by the Directorate of Distance Education & School of Education, Alagappa University, Karaikudi during 22<sup>nd</sup> & 23<sup>rd</sup> October 2009.
63. **Rameshthangam, P.** Srinivasan, P. Expression of serum protein profile in type 2 diabetes mellitus from South Tamilnadu – influence of diabetic environment and family history of diabetes. *9<sup>th</sup> Tamil Science Congress*, Alagappa University, Karaikudi - 3 during 11<sup>th</sup> – 13<sup>th</sup> September 2009.
64. Sudha, A., Rajaguru. K., Srinivasan, P., Manikandan, R., **Rameshthangam, P.** Phytochemical and Bioinformatics analysis of anti-inflammatory and anti-pyretic compounds of Anisomeles malabarica R.Br. “*9<sup>th</sup> Tamil Science Congress*”, Alagappa University, Karaikudi - 3 during 11<sup>th</sup> – 13<sup>th</sup> September 2009.
65. Ganesh Kumar, Sultana Nazer, **Rameshthangam, P.** Physicochemical and microbiological water quality of Chrompet Lake in Chennai. International Colloquium on *Emerging Biotechnologies in Agriculture, Animal Health and Productivity* organized by the School of Bio-Sciences, Alagappa University, Karaikudi during February 23-27, 2009.
66. **Rameshthangam, P** and Ramasamy, P. Protein expression in white spot syndrome virus infected *P. monodon* Fabricius. Conference on *Microbiology of the Tropical Seas (COMITS)*, organized by National Institute of Oceanography (NIO), Dona Paula, Goa during December 13<sup>th</sup> to 15<sup>th</sup>, 2004.
67. **Rameshthangam, P** and Ramasamy, P. Protein profiles in White spot syndrome virus in shrimp. *Proceedings of the sixth Indian Fisheries Forum*, Central Institute of Fisheries Education (CIFE), Versova, Mumbai during 17<sup>th</sup> – 20<sup>th</sup> December 2002.
68. **Rameshthangam, P.** Modern approaches in Life Science. *Inter collegiate students seminar* organized by FLORA (People of Biology), Erode on 6<sup>th</sup> January 2001.

## Overseas Exposure/Visits

1. Italy (Verona), 2009.
2. Thailand (Bangkok), 2016.
3. Japan (Kyoto), 2019.

## Membership

### Professional Bodies

1. Life Member, Indian Science Congress Association, Kolkata.
2. Life Member, Society for Biotechnologists (INDIA), Cochin.
3. Life Member, Bose Science Society, INDIA.
4. Member, Indian Academicians and Researchers Association.
5. Professional and Lifetime member of Institute of Scholars.
6. Life time member of the Institute of Engineering Research and Publication.
7. Annual Member, International Multidisciplinary Research Foundation (IMRF)
8. Life time Member, Global Academicians & Researches Network.
9. Member of American Chemical Society.

## Advisory Board

Year/Period	Name of the BoS/Administrative Committee / Academic Committee	Role
01-09-2023	Member of the Board of Studies of M.Sc., Home Science, Alagappa University	Member
19-01-2023	Member of the Board of Studies of M.Sc. Nutrition and Dietetics in regular mode, Alagappa University	Member
19-01-2023	Designed and introduced new Program M.Sc. Nutrition and Dietetics in regular mode, Alagappa University	Co-ordinator
13-10-2022	Chairperson for the Board of Studies of M.Sc., Microbiology, DDE, Alagappa University	Chairperson
10-10-2022	Chairperson for the Board of Studies of M.Sc. Home Science – Nutrition and Dietetics, DDE, Alagappa University	Chairperson
15-07-2022	Member of the Board of Studies of B.Sc., Biotechnology, Alagappa University	Member
09-06-2022	Member of the Board of Studies of B.Sc., Biochemistry, Alagappa University	Member
08-06-2022	Member of the Board of Studies of B.Sc., Home Science, Alagappa University	Member
01-09-2017	Designed and introduced new course M.Sc. Home Science – Nutrition and Dietetics in DDE, Alagappa University	Co-ordinator
01-09-2017	Member of the Board of Studies of M.Sc., Home Science – Nutrition and	Member

	Dietetics, DDE, Alagappa University	
01-09-2017	Member of the Board of Studies of M.Sc., Microbiology, DDE, Alagappa University	Member
22-01-2016	Member of the Board of Studies of B.Sc., Zoology, DDE, Alagappa University	Member
22-01-2016	Member of the Board of Studies of M.Sc., Zoology, DDE, Alagappa University	Member

### Ph.D. Thesis Guided

1.	No. of PhD Thesis evaluated	:	2
2.	No. of PhD Public Viva Voce Examination conducted	:	2

S.No	Name of the Scholar	Title of the Thesis	Year of Completion
1	D. Solairaj	Synthesis, Characterization, Applications of Chitin Nanoparticles and its Composites	2017
2	J. Chitra	Synthesis of nanoparticles from leaf extracts of <i>Ocimum Sanctum</i> for enhanced chemical and biochemical activities	2018

### List of Research Articles / Recent Publications

S. No	Authors/Title of the paper/Journal	Impact Factor
1.	Saravanan, R., <b>Rameshthangam, P.</b> (2024). Purification, characterization of a novel $\alpha$ -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).	<b>4.88</b>
2.	<b>Rameshthangam, P.</b> , 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. [Springer, Switzerland].	<b>4.11</b>
3.	Subbulakshmi, A., Durgadevi, S., Anitha, S., Govarthan, M., Biruntha, M., <b>Rameshthangam, P.</b> , 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].	<b>4.11</b>
4.	Arulkumar, A., Paramasivam, S., <b>Rameshthangam, P.</b> , 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.	<b>2.006</b>
5.	Saravanan, R., <b>Rameshthangam, P.</b> (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).	<b>4.88</b>
6.	Arulkumar, A., Satheesh kumar, K., Paramasivam, S., <b>Rameshthangam, P.</b> , 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].	<b>5.56</b>



7.	Rekha, K., Mohan Kumar, R., <b>Rameshthangam, P.</b> , 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].	2.9
8.	Arulkumar, A., Paramasivam, S., <b>Rameshthangam, P.</b> , 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].	2.4
9.	Solairaj, D., <b>Rameshthangam, P.</b> , 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 curcumin and insulin delivery, <i>Journal of Polymers and the Environment</i> . [Springer, United States] 26(10): 4095-4113.	5.3
10.	<b>Rameshthangam, P.</b> , 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 &amp; Technology</i> , 34, 508-522. [Elsevier, Netherlands]	10.9
11.	<b>Rameshthangam, P.</b> , 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
12.	Arulkumar, A., Paramasivam, S., <b>Rameshthangam, P.</b> , 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].	3.756
13.	Arulkumar, A., Balamurugan, A., Paramasivam, S., <b>Rameshthangam, P.</b> , 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].	2.006
14.	Chitra, J., <b>Rameshthangam, P.</b> , 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].	6.814
15.	Arulkumar, A., Paramasivam S., <b>Rameshthangam, P.</b> (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].	3.756
16.	Solairaj, D., <b>Rameshthangam, P.</b> , 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.	8.2
17.	Solairaj, D., <b>Rameshthangam, P.</b> , 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]	8.2
18.	Arulkumar, A., Paramasivam, S., <b>Rameshthangam, P.</b> (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].	2.255
19.	Solairaj, D., <b>Rameshthangam, P.</b> (2017). Silver nanoparticle embedded $\alpha$ -chitin nanocomposite for enhanced antimicrobial and mosquito larvicidal activity, <i>Journal of Polymers and the Environment</i> , 25(2): 435-452. [Springer, United States]	4.705
20.	Chitra, J., <b>Rameshthangam, P.</b> (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].	3.075
21.	Chitra, J., <b>Rameshthangam, P.</b> , 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
22.	Muthukumaran, P., Raju, C., Sumathi, C., Ravi, S., Solairaj, D., <b>Rameshthangam, P.</b> ,	3.3



	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].	
23.	Solairaj, D., <b>Rameshthangam, P.</b> , Srinivasan, P. (2016). Adsorption of Methylene Blue, Bromophenol Blue and Coomassie Brilliant Blue by $\alpha$ -chitin nanoparticles, <i>Journal of Advanced Research</i> , 7(1):113-124. [Elsevier, Netherlands].	12.822
24.	Chitra, J., Rameshthangam, P., Solairah, 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].	3.898

### Books published

S.No.	Title	Year	Authors	Publisher	ISBN
1.	Nanoengineered antimicrobial coatings: Action mechanisms and biomedical applications	2023	<b>P.Rameshthangam,</b> D. Solairaj & S.Ganeshkumar	LAP LAMBERT Academic Publishing Dodo books Indian Ocean Ltd and OmniScriptum S.R.L publishing group , Republic of Moldova	978-620-6-15141-8
2.	Green Synthesis and applications of nickel nanoparticles	2019	J. Chitra & <b>P. Rameshthangam</b>	LAP LAMBERT Academic Publishing GmbH & Co. KG, Saarbrucken, Deutschland	978-3-659-25466-6
3.	Pathogenesis and novel herbal drug for White Spot Syndrome Virus	2011	<b>P. Rameshthangam</b> & P. Ramasamy	LAP LAMBERT Academic Publishing GmbH & Co. KG, Saarbrucken, Deutschland	978-3-8473-1273-4
4.	A basic laboratory manual for Biochemistry	2017	<b>P.Rameshthangam,</b> D. Solairaj & J.P. Chitra	LAP LAMBERT Academic Publishing GmbH & Co. KG, Saarbrucken, 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	<b>Rameshthangam, P.,</b> Solairaj, D., Chitra J.	Pan Stanford Publishing Pte. Ltd, Singapore	978-981-4800-49-5

### Resource persons in various capacities

<b>Invited lectures</b>				
<b>S.No.</b>	<b>Name of the Programme</b>	<b>Organizer of the Programme</b>	<b>Topic</b>	<b>Date</b>
1.	The Refresher Course in Botany	UGC - Malaviya Mission Teacher Training Centre, Madurai Kamaraj University, Madurai.	Functional prebiotic oligosaccharides – Improving intestinal gut health	16 <sup>th</sup> December 2023
2.	Swachhata Pakhwada	Alagappa University, Karaikudi	Swachhata Nutritional food for good health	06 <sup>th</sup> September 2023
3.	National Nutritional Week Celebrations	Seethalakshmi Achi College for Women, Department of Zoology Pallathur.	National Nutritional Week-2023	15 <sup>th</sup> September 2023
4.	National Service Scheme (NSS)	Alagappa University	Biomedical Waste Management	25 <sup>th</sup> April 2022
5.	Role of Youth Red Cross Programme Officers in Service to Humanity	Youth Red Cross & Indian Red Cross Society	Global warming	5 <sup>th</sup> March 2019
6.	Creation of Scientific Awareness	Caussanel College of Arts and Science, Muthupettai	Green energy for the future	13 <sup>th</sup> February 2019
7.	SWAYAM awareness programme	Puratchi thalaivar Dr. MGR arts and science college for women, Uchipuli	Introduction to SWAYAM	23 <sup>rd</sup> October 2018
8.	Remedial classes	Department of Bioinformatics, Alagappa University, Karaikudi	Synthesis and characterization of nanoparticles	24 <sup>th</sup> March 2017
9.	Remedial classes	Department of Bioinformatics, Alagappa University, Karaikudi	Nanobiotechnological applications in bioinformatics	24 <sup>th</sup> March 2017
10.	Biorhythm 2016	Department of Biochemistry, Idhaya College for Women, Sarugani, Sivagangai.	Studies on WSSV in Shrimp	30 <sup>th</sup> March 2016
<b>International Conferences</b>				
11.	25 <sup>th</sup> Asia Pacific biotechnology congress	Conference series LLC LTD	Synthesis of isomalto-oligosaccharides by cell bound transglucosidase of <i>Debaryomyces hansenii</i>	1 <sup>st</sup> & 2 <sup>nd</sup> May 2019

12.	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 <sup>th</sup> to 28 <sup>th</sup> July 2016
<b>National Conferences</b>				
13.	National seminar on "Frontiers in Biotechnology and Bioenergy"	Department of Biotechnology, Dr. Umayal Ramanathan College for Women, Karaikudi.	Biomedical Waste Management	9 <sup>th</sup> and 10 <sup>th</sup> August 2018
14.	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 <sup>th</sup> January 2017

Date : 01-03-2024

Place : Karaikudi

Dr.P.Rameshthangam

Associate Professor & Head i/c