



**Dr. P. Rameshthangam**

Assistant Professor in Biotechnology (Level 12)

### Contact

Address : Directorate of Distance Education  
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### Academic Qualifications: M.Sc., Ph.D.

Degree	Subject	University	Year of Study	Class
Ph.D.	Biotechnology	University of Madras	2002- 2008 (January)	Highly commended
M.Sc.,	Biochemistry	Bharathidasan University	1999 -2001	First Class
B.Sc.,	Biochemistry	Bharathidasan University	1996-1999	First Class

### Teaching Experience: 13 Years 7 months

### Research Experience: 13 Years 7 months

S. No	Position	Organization	Period
1.	Assistant Professor of Biotechnology	Directorate of Distance education Alagappa University, Karaikudi	25-02-2020 to till date
2.	Assistant Professor	Department of Biomedical Sciences, Alagappa University, Karaikudi	04-06-2018 to 24-02-2020
3.	Assistant Professor	Department of Biotechnology, Alagappa University, Karaikudi	25-02-2016 to 03-06-2018
4.	Assistant Professor of Biotechnology	Directorate of Distance education, Alagappa University, Karaikudi	17-02-2009 to 24-02-2016
5.	Research Associate	Madras Diabetic Research Foundation (MDRF),Chennai	15-02-2008 to 16-02-2009
6.	Teaching cum Research Fellow (TRF)	Department of Biotechnology, University of Madras, Chennai	2002 - 2008

## Additional Academic Responsibilities

1. Program Co-ordinator, M.Sc., Home Science – Nutrition and Dietetics, DDE, Alagappa University.
2. Program Co-ordinator, M.Sc., Microbiology, DDE, Alagappa University.
3. SWAYAM Coordinator, Department of Biomedical Sciences, Alagappa University (2018 – 2020).
4. National Academic Depository (NAD), Coordinator, Department of Biomedical Sciences, Alagappa University (2018-19).
5. MHRD, National Institute Ranking Framework (NIRF), Coordinator, Department of Biomedical Sciences, Alagappa University (2018-19).
6. Department of Biomedical Sciences, Faculty in charge, University School level Executive council of Start Up cell (2018-19), Alagappa University.
7. Co-ordinator for Alagappa University Talent Exhibition Show (ALUTES), Department of Biotechnology, for the year 2016, 2017.
8. Event Co-ordinator for ALUTES, organized by Cultural Club, Alagappa University.
9. Camp Co-ordinator for Village Placement Programme 2017, 2018 organized by Alagappa University, Karaikudi, Tamilnadu, India.
10. Event Co-ordinator for Alagappa University Inter-University Cultural Festival-2019, Organized by Centre for Youth Welfare & Empowerment, Alagappa University.

## Areas of Research

- Nanobiotechnology
- Microbial technology

## Research Supervision / Guidance

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

### Details of Ph.Ds Awarded/Submitted

<i>Name of the Scholar</i>	<i>Title of the Thesis</i>	<i>Submitted/ Awarded/ Ongoing</i>	<i>Name of the University</i>	<i>Month and Year</i>	<i>No. of Research articles with the student</i>
<b>D. Solairaj</b> Reg. No: 600	Synthesis, Characterization, Applications of Chitin Nanoparticles and its Composites	<i>Awarded</i>	Alagappa University	13 <sup>th</sup> November 2017	6
<b>J. Chitra</b> Reg. No: 10478	Synthesis of nanoparticles from leaf extracts of <i>Ocimum Sanctum</i> for enhanced chemical and biochemical activities	<i>Awarded</i>	Manonmaniam Sundaranar University	12 <sup>th</sup> March 2018	6
<b>A. Arulkumar</b> Reg. No: 747 (Co-Supervisor)	Studies on the Biogenic amine forming bacteria and levels of biogenic amines in fish and fishery products with reference to their control, using natural preservatives.	<i>Awarded</i>	Alagappa University	16 <sup>th</sup> July 2018	7

### Details of M.Phil. Awarded/Submitted

<i>Name of the Scholar</i>	<i>Title of the Thesis</i>	<i>Name of the University</i>	<i>Month and Year</i>
S. MANJU Reg. No: 048M08A31001	Impact of biosurfactant producing microorganisms on biodegradation of oil contaminants	PRIST UNIVERSITY	June 2009
S. THILAGAVATHY Reg. No: 2018520016	Antibacterial activity of electrospun chitosan/poly(ethylene oxide)/papaya nanofibers	ALAGAPPA UNIVERSITY	JULY 2019

## Funded Research Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1.	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
2.	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
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	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
5.	Rashtriya Uchchatar 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

## Travel grants/Cash rewards received

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 lakh
2.	Indian National Science Academy (INSA)	2018	Cash price for INSA Visiting scientist program <b>(IIT Roorke)</b>	30,000/-

## Distinctive Awards /Fellowship

S.No	Award/Fellowship	Awarded by	Field/Category for which the award was given	Year of Award
1.	<b>Certification of Appreciation</b>	Alagappa University, Karaikudi	Contribution towards the enhancement of number of admissions during the year 2020-2021	2021
2.	<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
3.	<b>Certificate of Appreciation</b>	Alagappa University, Karaikudi	Contribution made to "Theme based Research Project of RUSA 2.0"	2021
4.	<b>Young Achiever Award</b>	Institute of Scholars	Significant contribution for the publication of INDIAN PATENT	2020
5.	<b>Best Teacher Award</b>	Institute of Scholars	In recognition of valuable contribution to the academic community and the students	2020
6.	<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
7.	<b>Fellow of Academy of Sciences</b>	The Academy of Sciences, Chennai	Significant contribution for the advancement of Sciences	2018
8.	<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
9.	<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
10.	<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
11.	<b>Fellow of Bose</b>	Bose Scientific	Research contribution in the	2017

	<b>Scientific Society (FBSS) Fellowship No: F373/BSS/2017</b>	Society, Mura Bhavan, Rajagopalapuram(po), Pudukkottai-622003	field of Nanobiotechnology	
12.	<b>Letter of appreciation award</b>	Alagappa University, Karaikudi	Contributing as a member of hospitality team to NAAC PEER TEAM	2017
13.	<b>Appreciation award</b>	Alagappa University, Karaikudi	Significant service for acquiring A+ grade in the third Cycle of NAAC accreditation	2017

## PATENTS

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

## PUBLICATIONS

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
32	29	-	16	7

### Citation indices

**Cumulative Impact Factor (as per JCR) : 88.443**

**H-index : 14**

**i10 index : 15**

**Total Citations : 774**

## Research Publications: 32

1. A. Arulkumar, S. Paramasivam, **P. Rameshthangam**, S. Paramithiotis (2021). "Detection of Biogenic Amines in Indian Fish and Fishery Products Consumed in Southeast Coast Region of India". *Journal of Aquatic Food Product Technology*, 30(1), 95-106. [Taylor & Francis, United Kingdom](IF- 1.767).
2. R. Saravanan, **P. Rameshthangam** (2020). "High purity prebiotic isomalto-oligosaccharides production by cell associated transglucosidase of isolated strain *Debaryomyces hansenii* SCY204 and selective fermentation by *Saccharomyces cerevisiae* SYI065". *Process Biochemistry*, 98, 93-105. [Elsevier, Netherlands] (IF-3.757, Citation: 1).
3. A. Arulkumar, K. Satheeshkumar, S. Paramasivam , **P. Rameshthangam**, M. Miranda (2020) "Chemical Biopreservative Effects of Red Seaweed on the Shelf Life of Black Tiger Shrimp (*Penaeus monodon*)". *Journal of Foods*, 9 (5), 634. [MDPI], (IF: 4.350, Citation: 7).
4. K.Rekha, R. Mohan Kumar, **P. Rameshthangam**, B.Usha (2019), "Impact of *Pseudomonas putida* RRF3 on the root transcriptome of rice plants: Insights into defense response, secondary metabolism, and root exudation". *Journal of Biosciences*, DOI: 10.1007/s12038-019-9922-2, 44:98. [Springer, United States], (IF- 1.826, Citation: 8).
5. A. Arulkumar, S. Paramasivam, **P. Rameshthangam**, S. Paramithiotis (2019). Evaluation of psychrophilic, mesophilic, histamine forming bacteria and biogenic amine content in the muscle of mud spiny lobster, *Panulirus polyphagus* (HERBST, 1793) during ice storage. *Journal of Food Safety*. DOI: 10.1111/jfs.12582 [Wiley publisher, United States] 39(1): e12582 (IF - 1.953, Citation: 7).
6. D. Solairaj, **P. Rameshthangam**, V. Suryanarayanan, S. K. Singh, V. Sri Ramkumar (2018), "*In vitro* and *in silico* studies of chitin and chitosan based nanocarriers for curcumin and insulin delivery". *Journal of Polymers and the Environment*, DOI: 10.1007/s10924-018-1282-8, [Springer, United States] 26(10): 4095-4113. (IF-3.667, Citation: 18).
7. **P. Rameshthangam**, J. P. Chitra (2018), "Synergistic anticancer effect of green synthesized nickel nanoparticles and quercetin extracted from *Ocimum sanctum* leaf extract". *Journal of Materials Science & Technology* 34(3):508-522 [DOI: 10.1016/j.jmst.2017.01.004] [Elsevier, Netherlands] (IF- 8.067, Citation:36)
8. **P. Rameshthangam**, D. Solairaj, A. Gnanapragasam, P. Ramasamy (2018), "Chitin and Chitinases: Biomedical and environmental applications of chitin and its derivatives". *Journal of Enzymes*, 1(1):20-43, [Open access pub.org, United States], (Citation: 13).
9. A. Arulkumar, S. Paramasivam, **P. Rameshthangam**, M.A. Rabie (2017), "Changes on biogenic, volatile amines and microbial quality of the blue swimmer crab (*Portunus pelagicus*) muscle during storage" *Journal of Food Science and Technology*. (DOI: 10.1007/s13197-017-2694-5). 54 (8), 2503-2511. [Wiley publisher, United States] (IF - 3.713, Citation:7).

10. A. Arulkumar, A. Balamurugan, S. Paramasivam, **P. Rameshthangam** & S. Paramithiotis, (2017). "Physicochemical and microbiological changes during drying of Wolf Herring (*Chirocentrus dorab*) and Coastal Trevally (*Carangoides coeruleopinnatus*)" *Journal of Aquatic Food Product Technology* [DOI: 10.1080/10498850.2017.1362683] [Taylor & Francis, United Kingdom] (IF- 1.767. Citation:1).
11. J. P. Chitra and **P. Rameshthangam**, B. Usha, (2017), "Green synthesized nickel nanoparticles for targeted detection and killing of *S. typhimurium*". *Journal of Photochemistry and Photobiology B: Biology* 174:58-69 [Elsevier, Netherlands](IF- 6.252, Citation: 6).
12. D. Solairaj, **P. Rameshthangam**, A. Gnanapragasam, (2017), "Anticancer effect of chitin encapsulated silver and copper nanocomposites against breast cancer (MCF-7) cells" *International Journal of Biological Macromolecules* 105(1):608-619 [Elsevier, Netherlands] (IF- 6.953, Citation: 24).
13. A. Arulkumar, S. Paramasivam and **P. Rameshthangam** (2017), "Changes on biogenic, volatile amines and microbial quality of the blue swimmer crab (*Portunus pelagicus*) muscle during storage" *Journal of Food Science and Technology* [DOI: 10.1007/s13197-017-2694-5] [Springer, United States] (IF-3.713, Citation: 7).
14. D. Solairaj, **P. Rameshthangam**, P. Muthukumaran and J. Wilson, (2017), "Studies on electrochemical glucose sensing, antimicrobial activity and cytotoxicity of fabricated copper nanoparticle immobilized chitin nanostructure" *International Journal of Biological Macromolecules* 101:668-679 [Elsevier, Netherlands] (IF-6.953; Citation: 25)
15. A. Arulkumar, S. Paramasivam and **P. Rameshthangam** (2017), "Effects of turmeric (*Curcuma longa*) on shelf life extension and biogenic amine control of cuttlefish (*Sepia brevimana*) during chilled storage" *CyTA - Journal of Food*, [DOI: 10.1080/19476337.2017.1296495][Taylor & Francis, United Kingdom] (IF- 2.255, Citation:18).
16. D. Solairaj, **P. Rameshthangam**, (2017), "Silver nanoparticle embedded  $\alpha$ -chitin nanocomposite for enhanced antimicrobial and mosquito larvicidal activity" *Journal of Polymers and the Environment* 25(2): 435-452 [Springer, United States] (IF-3.667, Citation: 25).
17. J. P. Chitra and **P. Rameshthangam**, (2016), "Application of L-arginine functionalized green synthesized nickel nanoparticles as gene transfer vector and catalyst" *Journal of Experimental Nanoscience* 1193-1212. [DOI 10.1080/17458080.2016.1204670] [Taylor & Francis, United Kingdom] (IF- 3.075, Citation: 5).
18. J. P. Chitra, **P. Rameshthangam**, D. Solairaj, (2016), "Screening antimicrobial activity of nickel nanoparticles synthesized using *Ocimum sanctum* leaf extract" *Journal of Nanoparticles* 13 Pages [DOI 10.1155/2016/4694367] [Hindawi, Egypt](Citation: 29 )
19. P. Muthukumaran, Chikkili Venkateswara Raju, C. Sumathi, S. Ravi, D. Solairaj, **P. Rameshthangam**, J. Wilson, Subbiah Alwarappan, Sathish Rajendran, (2016), "Cerium doped nickel-oxide nanostructures for riboflavin biosensing and antibacterial applications" *New Journal of Chemistry* 40:2741-2748 [Royal Society of Chemistry, United Kingdom] (IF- 3.591; Citation:19).



20. D. Solairaj, **P. Rameshthangam**, P. Srinivasan, (2016), "Adsorption of Methylene Blue, Bromophenol Blue and Coomassie Brilliant Blue by  $\alpha$ -chitin nanoparticles" *Journal of Advanced Research* 7(1):113–124 [Elsevier, Netherlands](IF- 10.479; Citation: 136).
21. J. P. Chitra, **P. Rameshthangam**, D. Solairaj, (2015), "Green synthesis of nickel nanoparticles using *Ocimum sanctum* and their application in dye and pollutant adsorption" *Chinese Journal of Chemical Engineering* 23(8):1307-1315 [Elsevier, Netherlands](IF- 3.171; Citation: 96).
22. A. Sudha, P. Srinivasan, **P. Rameshthangam**, (2015), "Exploration of potential EGFR inhibitors: a combination of pharmacophore-based virtual screening, atom-based 3D-QSAR and molecular docking analysis" *Journal of Receptors and Signal Transduction* 35(2):137-148 [Taylor & Francis, United Kingdom] (Print ISSN: 1079-9893)(IF: 2.092; Citation: 7).
23. P. Srinivasan, **P. Rameshthangam**, N.M. Prabhu, C. Arulvasu, (2012), "Variation in lipid classes and fatty acid content during ovarian maturation of *Albunea symmysta*" *International Journal of Advanced Scientific Research* 3(2):60-64 [ScienSage, India] ISSN: 2456-0421 (Citation: 4).
24. R. Vanajothi, A. Sudha, P. Srinivasan, R. Manikandan, **P. Rameshthangam**, (2012), "*Luffa acutangula* and *Lippia nodiflora* leaf extract induces growth inhibitory effect through induction of apoptosis on human lung cancer cell line" *Biomedicine and Preventive Nutrition* 2(4): 287-293 [Elsevier, Netherlands](Citation: 26).
25. S. Rajamanikandan, R. Vanajothi, A. Sudha, **P. Rameshthangam**, P. Srinivasan, (2012), "*In silico* analysis of deleterious SNPs of the FGFR2 gene" *Journal of Biological Sciences* 12(2):83-90 [Science Alert, Dubai] ISSN: 1727-3048 (Citation:1).
26. P. Srinivasan, A. Sudha, N. Umamaheswari, R. Vanajothi, **P. Rameshthangam**, (2012), "Modeling of quorum sensing regulatory protein of *Vibrio harvey* from shrimp aquaculture system and *In silico* prediction of active drugs" *International Journal of Current Science* 2:5-13.
27. **P. Rameshthangam**, P. Srinivasan, C. Arulvasu, D. Gowdhaman, P. Neeraja, (2011), "Protein carbonylation as biomarker(s) in serum patients with Type 2 diabetes" *Journal of Pharmacy Research* 4(2):348-351 [EBSCO online library, United States] (IF: 0.74, Citation:2).
28. **P. Rameshthangam**, P. Srinivasan, P. Ramasamy, (2011), "White Spot Syndrome Virus – An Overview" *International Journal of Current Research*, 2(2):28- 41.
29. P. Srinivasan, A. Sudha, P. Bharathajothi, K. Rajaguru, **P. Rameshthangam**, R. Manikandan, C. Arulvasu, (2010), "Effects of anti-inflammatory and antipyretic activity of *Anisomeles malabarica* R.Br." *Journal of Pharmacy Research* 3 (7):1598-1601 [EBSCO online library, United States] (IF: 0.74; Citation: 7).
30. **P. Rameshthangam**, P. Ramasamy, (2007), "Antiviral activity of Bis(2-methylheptyl) phthalate isolated from *Pongamia pinnata* leaves against White Spot Syndrome Virus of *Penaeus monodon* Fabricius" *Virus Research* 126(1-2):38-44 [Elsevier, Netherlands] (IF: 3.303; Citation: 112).

31. **P. Rameshthangam**, P. Ramasamy, (2006), "Antioxidant and membrane bound enzymes activity in WSSV-infected *Penaeus monodon* Fabricius" *Aquaculture* 254 (1-4): 32-39 [Elsevier, Netherlands] (IF: 4.242; Citation: 70).

32. **P. Rameshthangam**, P. Ramasamy, (2005), "Protein expression in white spot syndrome virus infected *Penaeus monodon* Fabricius" *Virus Research* 110 (1-2):133-141 [Elsevier, Netherlands] (IF: 3.303; Citation: 14).

### Books published

S.No:	Title	Year	Authors	Publisher	ISBN
1.	Pathogenesis and novel herbal drug for White Spot Syndrome Virus	2011	<b>P. Rameshthangam</b> & P. Ramasamy	LAP LAMBERT Academic Publishing GmbH & Co. KG, Saarbrücken, Deutschland	978-3-8473-1273-4
2.	A basic laboratory manual for Biochemistry	2017	<b>P. Rameshthangam</b> , D. Solairaj & J.P. Chitra	LAP LAMBERT Academic Publishing GmbH & Co. KG, Saarbrücken, Deutschland	978-3-330-03250-7
3.	Green Synthesis and applications of nickel nanoparticles	2019	J. Chitra & <b>P. Rameshthangam</b>	LAP LAMBERT Academic Publishing GmbH & Co. KG, Saarbrücken, Deutschland	978-3-659-25466-6

### 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

### DDE Course Materials prepared

Degree	Subject	Title	Year	Authors	Publisher	Theory/ Practical
M. Sc.,	Zoology	Animal Biotechnology	2011, 2017	<b>P. Rameshthangam</b>	Alagappa University	Theory

M.Sc.	Zoology	Environmental Biology, Developmental Biology, Microbiology, Immunology and Animal Biotechnology.	2011	P. Thiruchenthilnathan G. Selvakumar <b>P. Rameshthangam</b>	Alagappa University	Practical
M.Sc	Home Science – Nutrition and Dietetics	Clinical And Therapeutic Nutrition, Dietetics In Life Style Diseases, Community Nutrition.	2020	<b>P. Rameshthangam</b>	Alagappa University	Practical

### SEQUENCE SUBMITTED

#### MODELED PROTEIN SUBMITTED IN THE PROTEIN MODEL DATABASE

1	PM0076840	4.	PM0077293
2.	PM0077294	5.	PM0077249
3.	PM0077291	6.	PM0077338

#### DNA SEQUENCE DATA SUBMITTED IN THE NCBI GENBANK DATABASE

1.	KJ459007	5.	KJ459011
2.	KJ459008	6.	KP219419
3.	KJ459009	7.	KP219420
4.	KJ459010	8.	KP219421
9.	MT742688	10.	MT742689

### Academic Bodies (Such as Board of studies)

1. Designed and introduced new course M.Sc. Home Science – Nutrition and Dietetics in DDE
2. Assisted in designing an Innovative Curriculum of B.Sc., & M.Sc. Zoology, DDE.
3. Member of the Board of Studies of B.Sc., Zoology, DDE.
4. Member of the Board of Studies of M.Sc., Zoology, DDE.

5. Member of the Board of Studies of M.Sc., Microbiology, DDE.
6. Member of the Board of Studies of M.Sc., Home Science – Nutrition and Dietetics, DDE.

### Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events /webinars organized: **8**

- Organized three day International conference on “Women Health Issues” held on 1<sup>st</sup>, 2<sup>nd</sup> & 6<sup>th</sup> October 2021, Organized by Directorate of Distance Education & Department of Women Studies in Collaboration with Dr.B.R. Ambedkar University of Social Sciences, Mhow, Madhya Pradesh.
- Organized online Induction programme at Directorate of Distance Education, Alagappa University for M.Sc., Home Science – Nutrition and Dietetics (Academic Year 2020-2021).
- Organized International Webinar on “Biotechnology: Application Area and Development Process”, held on May 31-05-2020 to 02-06-2020, Organized by Directorate of Distance Education – Biotechnology Wing, Alagappa University, Karaikudi.
- Organizing team member in the three day International workshop on “E-content development for MOOCs among faculty members held on 10<sup>th</sup>, 12<sup>th</sup> & 13<sup>th</sup> September 2019 organized by Digital Educational Cell, Alagappa University, Karaikudi.
- Organized RUSA 2.0 sponsored two days International Workshop on “Biomedical Applications in Translational Research (BATR-2019) held on 6<sup>th</sup> & 7<sup>th</sup> June 2019 by Department of Biomedical Sciences in association with Semmelwels University, Budapest, Hungary.
- Organized Action plan 17 by 17 innovative competition / Hackathon programme, Organized by Swayam held on 6<sup>th</sup> July 2018 in the department of Biomedical Sciences, Alagappa University.
- Organizing Member of Two day National Seminar on “Quality Education for the students belonging to the marginalized sectors in India (QESBMS – 2018 held on 15<sup>th</sup> & 16<sup>th</sup> March, 2018 in the Directorate of Distance Education. Alagappa University, Karaikudi.
- Organized National workshop on “Expansion and Enrichment of Distance Learning” (EEDL - 2012) held on 27<sup>th</sup> & 28<sup>th</sup> March 2012 in the Directorate of Distance Education, Alagappa University, Karaikudi.

### Papers presented in the National and International events

Conferences / Seminars / Workshops: **52**

1. 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.
2. **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,

- Organised by Department of Animal Health and Management, Alagappa University, Karaikudi. [ISBN: 978-81-909148-0-2]
3. 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.
  4. 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].
  5. 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].
  6. 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, Organised by Department of Bioinformatics, Alagappa University, Karaikudi.
  7. 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]
  8. 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]
  9. 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.
  10. 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.
  11. A. 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)
  12. 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)
  13. 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.

14. A. 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.
15. **P. Rameshthangam**, D. Solairaj. *In-vitro* and *in-silico* studies on curcumin loaded chitin and chitosan nanoparticles from shrimp shells. Paper presented in 10th 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).
16. 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).
17. 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).
18. A. Arulkumar, S. Paramasivam and **P. Rameshthangam**, Contribution of psychrophilic and mesophilic bacteria on the formation of biogenic amines in mud spiny lobster (*Pandalirus 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).
19. 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.
20. 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.
21. **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.
22. **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.
23. 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.

24. Chitra Jeyaraj Pandian, **P. Rameshthangam** & Solairaj Dhanasekaran. Characterization of nickel nanoparticles synthesised 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.
25. 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.
26. R. Vanajothi, P. Srinivasan & **P. Rameshthangam**. Ligand-based pharmacophore mapping and virtual screening for the identification of potential DDR1 inhibitors. 6<sup>th</sup> National symposium cum workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design, held on February 18<sup>th</sup>-21<sup>st</sup>, 2014, organized by Department of Bioinformatics, Alagappa University, Karaikudi, Tamilnadu.
27. S. Rajamanikandan, P. Srinivasan & **P. Rameshthangam**. Discovery of small molecule inhibitors of GacA using molecular modeling and virtual screening approach. 6<sup>th</sup> National symposium cum workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design, held on February 18<sup>th</sup>-21<sup>st</sup>, 2014, organized by Department of Bioinformatics, Alagappa University, Karaikudi, Tamilnadu.
28. Solairaj Dhanasekaran, **Rameshthangam 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.
29. **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.
30. **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.
31. **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.
32. 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.
33. 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.
34. 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.

35. 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.
36. A. 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 20th- 22nd, 2010.
37. K. Rajaguru, P. Srinivasan and **P. Rameshthangam**. Applications of Bioinformatics. *World Tamil Conference 2010* held at Coimbatore, Tamil Nadu during June 2010.
38. 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.
39. **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.
40. **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.
41. **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.
42. 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.
43. 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.
44. 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.
45. A. 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.
46. **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.
47. **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.
48. 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.



49. 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.
50. **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.
51. **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.
52. **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.

#### **ORIENTATION /REFRESHER COURSE /TRAINING PROGRAMME PARTICIPATED**

<b>Refresher Course</b>	UGC Sponsored Refresher Course in Environmental sciences conducted by UGC Human Resource Development Centre, University of Madras, Chennai from 07/07/2015 to 27/07/2015 and obtained grade 'A'.
	UGC Sponsored Refresher Course in Research Methods, Methodology and Statistics for College and University teachers conducted by UGC Academic Staff College, Pondicherry University, Pondicherry from 01/06/2011 to 21/06/2011 and obtained grade 'A'.
<b>Orientation Programme</b>	UGC Sponsored Orientation Course for College and University teachers conducted by UGC Academic Staff College, Bharathidasan University, Tiruchirappalli from 02/03/2010 to 29/3/2010 and obtained grade 'A'.
<b>Training Programme</b>	Participated in the UGC-sponsored short term course in curriculum development & Evaluation held on 07-01-2020 to 13-01-2020, organized by UGC-HRDC, Bharathidasan University, Tiruchirappalli.
	Participated in the one week National level workshop on "E-Content development" held on 18 <sup>th</sup> – 22 <sup>nd</sup> November 2019, organized by the Department of Education (DDE), Alagappa University, and Karaikudi.
	Participated in the Short-term course on "Current Status and requirements of Biomedical devices" conducted by Department of Mechanical Engineering, IIT Guwahati, Assam during 25 <sup>th</sup> to 29 <sup>th</sup> March 2019.
	One Month Indian National Science Academy (INSA) visiting Scientist programme from 01-11-2018 to 30-11-2018 in Indian Institute of Technology (IIT), Roorkee.
	One week "Faculty Development (Enrichment) Program – Accreditation Quality Enhancement" held on 6 <sup>th</sup> – 12 <sup>th</sup> January, 2017 organized by IQAC, Alagappa University, Karaikudi.
	One week training on Shaksham - Information Technology Champion organized by Shaksham and Microsoft, held on 19 <sup>th</sup> Jan – 25 <sup>th</sup> Jan. 2015 at Department of Computer Science, Alagappa University, Karaikudi, Tamil Nadu, India.

	One month CAS training programme on Advances in Fish Disease Diagnostics held on 25th February to 17th March 2003 at Central Institute of Fisheries Education, Versova, Mumbai, India.
	One month training programme on Diagnostic technique - Animal cell culture, ELISA and PCR held on 21 <sup>st</sup> Nov. – 21 <sup>st</sup> Dec. 2001 at Tamil Nadu Veterinary and Animal Sciences University, Chennai, India.

### Resource persons in various capacities

Number of Invited / Special Lectures delivered: 10

S.No:	Name of the Programme	Organizer of the Programme	Level: International/ National	Topic	Date
1.	25 <sup>th</sup> Asia Pacific biotechnology congress	Conference series LLC LTD	International	Synthesis of isomalto-oligosaccharides by cell bound transglucosidase of <i>Debaryomyces hansenii</i>	1 <sup>st</sup> & 2 <sup>nd</sup> May 2019
2.	Role of Youth Red Cross Programme Officers in Service to Humanity	Youth Red Cross & Indian Red Cross Society	National	Global warming	5 <sup>th</sup> March 2019
3.	Creation of Scientific Awareness	Caussanel College of Arts and Science, Muthupettai	National	Green energy for the future	13 <sup>th</sup> February 2019
4.	SWAYAM awareness programme	Puratchi thalaivar Dr. MGR arts and science college for women, Uchipuli	National	Introduction to SWAYAM	23 <sup>rd</sup> October 2018
5.	National seminar on "Frontiers in Biotechnology and Bioenergy"	Department of Biotechnology, Dr. Umayal Ramanathan College for Women, Karaikudi.	National	Biomedical Waste Management	9 <sup>th</sup> and 10 <sup>th</sup> August 2018
6.	Remedial classes	Department of Bioinformatics, Alagappa University, Karaikudi	National	Synthesis and characterization of nanoparticles	24 <sup>th</sup> March 2017
7.	Remedial classes	Department of Bioinformatics, Alagappa University, Karaikudi	National	Nanobiotechnological applications in bioinformatics	24 <sup>th</sup> March 2017

8.	National Seminar on Nanotechnological Approaches in Pollution Control	Department of Physics, Biotechnology, Electronics and Communication, Dr. Umayal Ramanathan College for Women, Karaikudi.	National	Chitin nanostructures and its applications	18 <sup>th</sup> January 2017
9.	10th International Conference on Nanomedicine and Nanotechnology in Health Care (Nanomedicine 2016)	Omics Conference Series LLC, Bangkok, Thailand	International	<i>In-vitro</i> and <i>in-silico</i> studies on curcumin loaded chitin and chitosan nanoparticles from shrimp shells	25 <sup>th</sup> to 28 <sup>th</sup> July 2016
10.	Biorhythm 2016	Department of Biochemistry, Idhaya College for Women, Sarugani, Sivagangai	National	Studies on WSSV in Shrimp	30 <sup>th</sup> March 2016

## Events Participated

### Conferences / Seminars / Workshops/Webinars: 63

1. Participated in the webinar on “Mind your mind to create your legacy” held on 13-10-2021, organized by Alagappa Govt. Arts College, Karaikudi.
2. Participated in the Technical and Academic writing held on 26<sup>th</sup> June 2020, Organized by STRIDE CELL, Alagappa University, Karaikudi.
3. Participated in the International Webinar on Strategic approach to chemistry held on 9<sup>th</sup>,10<sup>th</sup> and 12<sup>th</sup> June 2020, Organized by Directorate of Distance Education, Alagappa University.
4. Participated in the International online seminar on Alternative to Antibiotics, held on 2<sup>nd</sup> and 3<sup>rd</sup> June 2020, Organized by Department of Biotechnology, Alagappa University.
5. Participated in the International webinar on Novel Approaches: Human Therapy and Animal Nutrition held on 29-30 May 2020, Organized by DDE - Microbiology Wing, Alagappa University.
6. Participated in the International webinar on Business skills development in Life sciences held on 27<sup>th</sup> may 2020, Organized by Department of Animal Health and Management, Alagappa University.
7. Participated in the three days International virtual seminar on the Role of Nanotechnology against COVID-19 held on 20 -22 May 2020, Organized by Department of Nano Science and Technology, Alagappa University.
8. Participated in the International conference on Recent trends in Bioplastics held on 09<sup>th</sup> and 10<sup>th</sup> December 2019, organized by Department of Microbiology, Alagappa University, Karaikudi.

9. Participated in the Two day International workshop on Design and development of technology enabled courseware held on 05<sup>th</sup> & 06<sup>th</sup> December 2019, Organized by Department of Education, DDE, Alagappa University, Karaikudi.
10. Participated in the one day workshop on “Water Conservation” held on 22<sup>nd</sup> November, Organised by Jal Shakti and Environment awareness club, Alagappa University, Karaikudi.
11. Participated in the one week National level workshop on “E-Content development” held on 18 – 22 November 2019, organized by the Department of Education (DDE), Alagappa University, Karaikudi.
12. Participated in the International conference on “Innovative and emerging trends in Botany held on 6<sup>th</sup> & 7<sup>th</sup> November, 2019, Organized by Department of Botany, Alagappa University, Karaikudi.
13. Participated in the three day International workshop on “E-content development for MOOCs among faculty members held on 10<sup>th</sup>, 12<sup>th</sup> & 13<sup>th</sup> September 2019 organized by Digital Educational Cell, Alagappa University, Karaikudi.
14. Participated in the Theme meeting on Environmental Receptivity of Industrial Effluents and their influence on marine ecology & DAE technologies for water treatment held on 9<sup>th</sup> & 10<sup>th</sup> August 2019 jointly organized by Baba Atomic Research Centre (BARC) & Department of Biotechnology, Alagappa University, Karaikudi.
15. Participated 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.
16. Participated in the Three day Workshop on Research Methods and LaTeX held on 24<sup>th</sup> to 26<sup>th</sup> June, 2019 Organized by Technical and Academic Writing Centre, Alagappa University, Karaikudi.
17. Participated in the 5<sup>th</sup> International day YOGA 2019 held on 21<sup>st</sup> June 2019 Organized by Centre for Yoga education & NSS, Alagappa University, Karaikudi.
18. Participated in the International conference on “Bioplastics” held on 2<sup>nd</sup> April, 2019, organized by Department of Microbiology, Alagappa University, Karaikudi.
19. Participated in the Short-term course on “Current Status and requirements of Biomedical devices” conducted by Department of Mechanical Engineering, IIT Guwahati, Assam during 25<sup>th</sup> to 29<sup>th</sup> March 2019.
20. Participated in the International conference on “Applied Nanoscience & Nanotechnology (ICANN-2019) held on 18<sup>th</sup> & 19<sup>th</sup> March, 2019, organized by Department of Nanoscience and Technology, Alagappa University, Karaikudi.
21. Participated in the One –day workshop on Technical and Scholarly writing, held on 14<sup>th</sup> February 2019, organized by Technical and Academic writing centre, Alagappa University, Karaikudi.
22. Participated 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.
23. Participated in the National Workshop on “Indigenous Cow Management & their value added products” organized by Department of Animal Health and Management, Alagappa University, Karaikudi on 18<sup>th</sup> & 19<sup>th</sup> December, 2018.
24. Participated in the “IEEE Author workshop and IEEE Explore awareness session” organized by Mahatma Gandhi Central Library, Indian Institute of Technology (IIT), Roorkee on 22<sup>nd</sup> November 2018.
25. One day Workshop on “Characterization of nanoparticles using Zetasizer: Hands – on Training” jointly organized by Department of Biotechnology and Centre of excellence: Nanotechnology, Indian Institute of Technology (IIT), Roorkee on 3<sup>rd</sup> November 2018.
26. National seminar on “Humanism in Indian Literature” organized by Department of Education (DDE), Alagappa University, Karaikudi.

27. National seminar on Quality Education for the students belonging to the marginalized sectors in India” held on 15<sup>th</sup> & 16<sup>th</sup> March 2018 Organized by Department of Education, Directorate of Distance Education, Alagappa University, Karaikudi
28. Four days workshop on “Commercialization prospects of microbial formulates” held on 22-25 January, 2018. Organized by Department of Microbiology and University business collaboration centre, Alagappa University, Karaikudi
29. World Animal Day Celebration held on 4<sup>th</sup> October 2017. Organized by Department of Animal Health and Management, Alagappa University, Karaikudi – 630003.
30. National Conference on Trends in Microbiology (NCTM – 2017) held on 27<sup>th</sup> September 2017. Organized by Department of Microbiology, Alagappa University, Karaikudi – 630003.
31. Faculty development programme for Physical, Chemical and Life Science faculties held on 12<sup>th</sup> and 13<sup>th</sup> July, 2017. Organized by CSIR-Central Electrochemical Research Institute and Dr. Umayal Ramanathan College for Women, Karaikudi – 630003.
32. Two days training programme on “Business Resources of Solid Waste Management through Vermi composting”, held on 14<sup>th</sup> to 15<sup>th</sup> March, 2017. Organized by Department of Animal Health and Management & University Business Collaboration Centre, Alagappa University, Karaikudi – 630003, Tamilnadu, India
33. DBT Sponsored National Seminar cum Workshop on Genomics and Proteomics-2017, held on 08<sup>th</sup> to 10<sup>th</sup> February, 2017. Organized by Bioinformatics Infrastructure Facility & Department of Biotechnology, Alagappa University, Karaikudi- 630 004, Tamilnadu, India.
34. 9th National Symposium cum Workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design" [SBCADD'2017], held on 14<sup>th</sup> –17<sup>th</sup> February, 2017. Organized by Department of Bioinformatics, Alagappa University, Karaikudi- 630 004, Tamilnadu, India.
35. International workshop on ‘Molecular Physiology, Therapeutics and Experimental Medicine” (MPTEM’2016), held on 06<sup>th</sup> and 07<sup>th</sup> September 2016. Organized by Department of Animal Health and Management, Alagappa University, Karaikudi, Tamilnadu, India.
36. Internationals Conference on “Recent Advances in Modern Medicine: Molecular signaling scenarios in tissues and diseases”, held on 03<sup>rd</sup> and 04<sup>th</sup> September 2016. Organized by Research and Development Wing, Sree Balaji Medical College and Hospital, Chrompet, Chennai, Tamilnadu India.
37. 10th 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).
38. 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).
39. Workshop on Metrohm Auto lab Electrochemical Instruments for Biosensors, Energy and Corrosion applications, Organized by Department of Bioelectronics and Biosensors, Alagappa University, Karaikudi held on 16<sup>th</sup> February 2015.
40. International Seminar on “Recent trends in Aquatic animal biotechnology” (RTAAB’ 2013), Organized by Department of Animal Health & Management, Alagappa University, Karaikudi, 21st – 22nd October 2013.
41. National Workshop on Fluorescent Microscopy, Organized by Department of Zoology, Periyar University, Salem, 10<sup>th</sup> October 2013.
42. National Symposium on Nanosciences and Nanotechnology, Organized by Karunya University, Coimbatore, September 30<sup>th</sup> – 1<sup>st</sup> October 2013.
43. National workshop on “Expansion and Enrichment of Distance Learning” (EEDL -2012) held on 27<sup>th</sup> & 28<sup>th</sup> March 2012 organized by the Directorate of Distance Education, Alagappa University, Karaikudi.

44. International Symposium on Tagore – The Literary Genius and world Literature (ISTLG & WL) held on 1<sup>st</sup> March, 2012 organized by the Department of English and Foreign Languages, Alagappa University, Karaikudi.
45. Expansion of Distance Education – Experiences and Expectations” Workshop held on 7<sup>th</sup> and 8<sup>th</sup> July 2010 organized by the Directorate of Distance Education of Alagappa University, Karaikudi.
46. Shift System in Government Colleges on the total development of the students. A one day National level workshop held on 31<sup>st</sup> March, 2010 organized by Department of Education, Alagappa University, Karaikudi.
47. International conference on emerging trends in teaching language & literature, held on 4<sup>th</sup> & 5<sup>th</sup> December 2009 organized by Department of English and Foreign languages, Alagappa University, Karaikudi.
48. Workshop for lesson writers of Distance Education Programme, held on 11<sup>th</sup> and 12<sup>th</sup> June 2009 organized by the Directorate of Distance Education of Alagappa University, Karaikudi.
49. National Seminar on Application of Genomics and Bioinformatics in Animal Health and Management held on 25 and 26<sup>th</sup> March 2009 organized by Centre for Animal Health and Management, Alagappa University, Karaikudi.
50. National Seminar on Current Trends and Future Prospects of Nano Marine Sciences, held on 23<sup>rd</sup> and 24<sup>th</sup> March 2009 organized by Department of Oceanography, Alagappa University, Karaikudi.
51. National Seminar on Recent Trends in Molecular Modelling and Drug Design held on 18<sup>th</sup> and 19<sup>th</sup> March 2009.organized by Department of Bioinformatics, Alagappa University, Karaikudi.
52. Workshop on techniques in Genomics in relation to diabetes & related disorders, held on 3<sup>rd</sup> to 9<sup>th</sup> January 2009 Organized by Madras diabetes research foundation, Chennai & Indian Council of Medical Research.
53. Science Seminar on Basic Sciences: Scope and Hope held on 23<sup>rd</sup> August 2007 organized by University of Madras. India.
54. International seminar on Computational Drug Discovery in Pharma R & D held on 25<sup>th</sup> July 2007 organized by Bioinformatics Infrastructure Facility (BTBI – DBT funded), Department of Biotechnology & CAS in Crystallography and Biophysics, University of Madras, Chennai. India.
55. International seminar and workshop on Techniques in Biotechnology – Immunocytochemistry. Held on 8<sup>th</sup> – 11<sup>th</sup> May 2007 organized by Department of Biotechnology, University of Madras, Chennai. India.
56. International conference on Nanoscience and Nanotechnology (ICNSNT), held on 26<sup>th</sup> to 28<sup>th</sup> August 2006 organized by centre for Nanoscience and Nanotechnology, University of Madras, Chennai. India.
57. INTERNATIONAL seminar on Bio-ethics, held on 26<sup>th</sup> -27<sup>th</sup> January 2006 organized by The Tamilnadu Dr. M.G.R Medical University & University of Madras, Chennai, India.
58. International seminar on Immunotechnology and workshop on Immunoenzyme labelling in tissue sections, ELISA, 2D & Pulse field gel electrophoresis and Fermentor held on 20<sup>th</sup> to 22<sup>nd</sup> October 2005 organized by Department of Biotechnology, University of Madras, Chennai, India.
59. National Seminar on Structural Biology held on 4<sup>th</sup> March 2005 organized by Department of Crystallography and Biophysics, University of Madras. India.
60. Awareness programme on Application of Radioisotopes and Radiation Technology for Societal Development held on 13<sup>th</sup> and 14<sup>th</sup> July 2004 organized by Anna University. Chennai India.
61. International seminar on “Biosensors I and Biosensors II” held on 23<sup>rd</sup> and 24<sup>th</sup> March 2004 organized by Department of Biotechnology, University of Madras. India

62. Ethics in Medical Research, Indo-UK Workshop, held on 11<sup>th</sup> October 2004.
63. National seminar on Genomics and Proteomics, held on February 19<sup>th</sup> and 20<sup>th</sup>, 2003 organized by Department of Biotechnology, University of Madras. India.
64. The Sixth Indian fisheries Forum held on 17<sup>th</sup> – 20<sup>th</sup> December 2002 Organized by Asian fisheries Society (Indian Branch), Indian fisheries Association & Central Institute of Fisheries Education, Mumbai.

### Overseas Exposure / Visits

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

### Distinctive Achievements

1. Research paper entitled “Adsorptive removal of anionic, cationic and azo dyes using green synthesized nickel nanoparticles” presented in International Conference on Membrane Technology and its Applications (MEMSEP 2017), held on 21 – 23<sup>rd</sup> February 2017. Organized by Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli - 620 024, Tamilnadu, India was selected as “Best Oral Presentation of the session”.
2. Research article “Cerium doped nickel-oxide nanostructures for riboflavin biosensing and antibacterial applications. New J. Chem. (2016)” was cited in “Nature India” (doi:10.1038/nindia.2016.27).
3. Research paper entitled “Synergistic effect of *Ocimum Sanctum* leaf extract synthesized quercetin and nickel nanoparticles on breast cancer cell lines” 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 was selected as “Best Paper Presentation”.
4. Post-Doctoral Research Fellowship for Young Indian researchers sponsored by Italian Ministry of University and Research (MUR), published by ministry note n 179, 29 January 2007 , the University of Verona, Italy and the University of Madras.
5. Project Assistant (PA): “Project Assistant (PA)” was awarded in the Major Research Project entitled “Identification of novel herbal drug targeting protein(s) and gene(s) of White spot syndrome virus of shrimp” funded by UNIVERSITY GRANTS COMMISSION (UGC) with Potential for Excellence, Government of India, during the academic year 2003 November – 2005 December and 2006 July – April 2007.
6. Teaching- Cum – Research Fellow (TRF): Teaching- Cum – Research Fellow was awarded from the University of Madras during the academic year January –April, 2006.
7. Research Article Published in Virus Research 110(2005) 133 -141 was selected as 14<sup>th</sup> among the Science Direct TOP 25 articles in the subject area Immunology and Microbiology in the Journal Virus Research.

### Additional Administrative Responsibilities

1. Member of Admission committee for scrutinizing the online filled-in applications of various programmes being offered DDE.
2. Nodal officer for Distance Education Examinations 2020, 2021, Alagappa University.

3. Chairperson of Question paper setter board in B.Sc., (Nutrition and Dietetics), Alagappa University.
4. Member of Convocation organizing Committee, Alagappa University.
5. University Representative (UR) for Distance Education Examinations, Alagappa University.
6. Chairperson for the valuation board of DDE M.Sc., Home Science -Nutrition and Dietetics, Alagappa University
7. Member of the Inspection Squad to inspect the conduct of Examinations in the colleges affiliated to Alagappa University.
8. Inspection member of PG Science programs in DDE, Alagappa University – Conduct of theory and practical classes.
9. Member of Competitive Examinations Coaching cell, Alagappa University.
10. Member, Environmental Awareness Club, Alagappa University.
11. Member of expert regarding the equivalence of B.Sc. Biochemistry and B.Sc., Chemistry to the Govt. of Tamilnadu.
12. Chairman of Question paper setters Board in B.Sc. Biotechnology, Alagappa University.
13. Chairman of Question paper Scrutiny Board in B.Sc. Advanced Zoology & Animal Biotechnology, Alagappa University.
14. Member of committee to prepare the Annual report of the CIQA
15. Member of committee to coordinate the activities of DDE relating to NAAC.
16. Member of internal stock verification committee in DDE.
17. Member of committee to monitor the Grievance & RTI redressal in DDE.
18. Coordinator to monitor the learning centers of DDE.
19. Chairman for the valuation Board of Distance Education online examinations for M.Sc., Home Science – Nutrition and Dietetics, Alagappa University.
20. Chairman for the valuation Board of Distance Education online examinations for M.Sc., Microbiology, Alagappa University.
21. Chairman of Question paper setters board in B.Sc., (Nutrition & Dietetics), Alagappa University.
22. Chairman of Question paper setters board in M.Sc., Home Science – Nutrition and Dietetics, Alagappa University.
23. Member of Question paper setters Board in M.Sc., Zoology, Alagappa University.

### **Membership in 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.

### **Editorial Board**

1. Journal of Advanced Materials

### **Advisory Board**

- |                                                |                                                    |
|------------------------------------------------|----------------------------------------------------|
| 1. Journal of Nanostructure in Chemistry       | 2. British Biotechnology Journal                   |
| 3. Journal of the Chemical Society of Pakistan | 4. European Journal of Medicinal Plants            |
| 5. African Journal of Agricultural Research    | 6. Journal of Applied Life Sciences International  |
| 7. African Journal of Biotechnology            | 8. Applied Biochemistry and Biotechnology          |
| 9. BMC Complementary and Alternative Medicine  | 10. International Journal of Medical Nano Research |
| 11. British Microbiology Research Journal      | 12. Annual Research & Review in Biology            |



13. . Journal of advances in microbiology

14. International Journal of Basic and Applied Sciences

### **Extension activities**

1. Acted as a Rapporteur in the UGC Sponsored National Conference on “Human Rights Education”, Organized by Alagappa University, Karaikudi held on 14 & 15, March 2017.
2. Volunteer in Blood Donation camps organized by TAMIL NADU STATE AIDS CONTROL SOCIETY & TAMIL NADU STATE BLOOD TRANSFUSION COUNCIL.
3. Active volunteer in the donor recruitment drive in DATRI BLOOD STEM CELL DONOR REGISTRY, Chennai 600113, India.

(P. Rameshthangam)