



Dr. P. Rameshthangam
Assistant Professor

Contact

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Academic Qualifications: M.Sc., Ph.D.

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

Teaching Experience: 09 Years

Research Experience: 09 Years

Additional Responsibilities

1. Member of the Inspection Squad to inspect the conduct of Examinations in the colleges affiliated to Alagappa University.
2. Inspection member of PG Science programs in DDE, Alagappa University – Conduct of theory and practical classes.
3. Member of Competitive Examinations Coaching cell, Alagappa University.
4. Member, Environmental Awareness Club, Alagappa University.
5. Member of expert regarding the equivalence of B.Sc Biochemistry and B.Sc., Chemistry to the Govt. of Tamilnadu.
6. Event Co-ordinator for ALUTES, organized by Cultural Club, Alagappa University.
7. Chairman of Question paper setters Board in B.Sc. Biotechnology, Alagappa University.
8. Chairman of Question paper Scrutiny Board in B.Sc. Advanced Zoology & Animal Biotechnology, Alagappa University.

Areas of Research

1. Nano Biotechnology
2. Microbial Biotechnology

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	-	3
	M.Phil.	1	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
18	26	-	16	3

Citation indices

Cumulative Impact Factor (as per JCR) : 19.027

H-index : 7

i10 index : 4

Total Citations : 163

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	Alagappa University Research Fund (AURF)	2010	2011	Exploring protein carbonylation as biomarker(s) in serum from subjects with impaired glucose tolerance (prediabetes) and patients with Type 2 diabetes (Principal Investigator)	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 (Principal Investigator)	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 (Co- Principal Investigator)	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. (Co- Principal Investigator)	8.50 lakhs

Others

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) Palanivel Rameshthangam	1390/CHE/2005	2005-09-30	2007-09-28	BIG PATENTS, INDIA

Distinctive Achievements / Awards

1. 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).
2. 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 7th & 8th January, 2016, organized by Department of Botany, St. Joseph’s College (Autonomous), Tiruchirappalli, Tamil Nadu, India was selected as “Best Paper Presentation”.
3. 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.
4. 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.
5. Teaching- Cum – Research Fellow (TRF): Teaching- Cum – Research Fellow was awarded from the University of Madras during the academic year January –April, 2006.
6. Research Article Published in Virus Research 110(2005) 133 -141 was selected as 14th among the Science Direct TOP 25 articles in the subject area Immunology and Microbiology in the Journal Virus Research.

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: **1**

1. Organized National workshop on “**Expansion and Enrichment of Distance Learning (EEDL -2012)**” held on 27th & 28th March 2012 in the Directorate of Distance Education, Alagappa University, Karaikudi.

Events Participated

Conferences / Seminars / Workshops: **31**

Other Training Programs

Refresher Course	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'.
Orientation Programme	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'.
Training Programme	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 st Nov. – 21 st Dec. 2001 at Tamil Nadu Veterinary and Animal Sciences University, Chennai, India.
	One week training on Shaksham - Information Technology Champion organized by Shaksham and Microsoft, held on 19 th Jan – 25 th Jan. 2015 at Department of Computer Science, Alagappa University, Karaikudi, Tamil Nadu, India.

Overseas Exposure / Visits

1. Italy (Verona), 2009.
2. Thailand (Bangkok), 2016.

Membership in

Professional Bodies

1. Life Member, Indian Science Congress Association, Kolkata.
2. Life Member, Society for Biotechnologists (INDIA), Cochin.

Editorial Board

1. Journal of Advanced Materials

Advisory Board

1. Journal of Nanostructure in Chemistry
2. Journal of the Chemical Society of Pakistan
3. African Journal of Agricultural Research
4. African Journal of Biotechnology
5. BMC Complementary and Alternative Medicine
6. British Microbiology Research Journal
7. British Biotechnology Journal
8. European Journal of Medicinal Plants
9. Journal of Applied Life Sciences International

Academic Bodies (such as Board of Studies etc.,)

1. Assisted in designing an Innovative Curriculum of B.Sc & M.Sc. Zoology, DDE.
2. Member of the Board of Studies of B.Sc, Zoology, DDE.
3. Member of the Board of Studies of M.Sc. Zoology, DDE.

Others

Books published

Title	Year	Authors	Publisher	ISBN
Pathogenesis and novel herbal drug for White Spot Syndrome Virus	2011	P. Rameshthangam & P. Ramasamy	LAP LAMBERT Academic Publishing GmbH & Co. KG, Saarbrucken, Deutschland	978-3-8473-1273-4

DDE course material

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

		Biology, Developmental Biology, Microbiology, Immunology and Animal Biotechnology.		Thiruchenthilnathan G. Selvakumar P. Rameshthangam	University	
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Resource persons in various capacities

Number of Invited / Special Lectures delivered: 2

Others

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

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

Recent Publications

1. **P. Rameshthangam**, J. P. Chitra, (2016), "Synergistic anticancer effect of green synthesized nickel nanoparticles and quercetin extracted from *Ocimum sanctum* leaf extract" Journal of Materials Science & Technology, Elsevier, Netherlands, (In Press). (IF-2.267).
2. D. Solairaj, **P.Rameshthangam**, (2016), "Silver nanoparticle embedded α -chitin nanocomposite for enhanced antimicrobial and mosquito larvicidal activity" Journal of Polymers and the Environment, Springer, United States, [DOI 10.1007/s10924-016-0822-3]. (IF-1.97).
3. 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, Taylor & Francis, United Kingdom, [DOI 10.1080/17458080.2016.1204670]. (IF- 0.832).
4. J. P. Chitra, **P. Rameshthangam**, D. Solairaj, (2016), "Screening antimicrobial activity of nickel nanoparticles synthesized using *Ocimum sanctum* leaf extract" Journal of Nanoparticles, Hindawi, Egypt, 13 Pages, [DOI 10.1155/2016/4694367].
5. P. Muthukumar, 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, Royal Society of Chemistry, United Kingdom, 40, 2741-2748. (IF-3.08).
6. D. Solairaj, **P.Rameshthangam**, P. Srinivasan, (2016), "Adsorption of Methylene Blue, Bromophenol Blue and Coomassie Brilliant Blue by α -chitin nanoparticles" Journal of Advanced Research, Elsevier, Netherlands, 7(1), 113–124. (Citation: 4).
7. J. P. Chitra, **P. Rameshthangam**, D. Solairaj, (2015), "*Ocimum sanctum* mediated synthesis of nickel nanoparticle as potent adsorbent for dyes and pollutants" Chinese Journal of Chemical Engineering, Elsevier, Netherlands, 23(8), 1307-1315. (IF-1.09).
8. 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, Taylor & Francis, United Kingdom, 35(2), 137-148. (IF- 1.782; Citation: 2).
9. 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, ScienSage, India, 3(2), 60-64. (Citation: 2).
10. 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*, Elsevier, Netherlands, 2(4), 287-293. (Citation: 5).

11. 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, Science Alert, Dubai*, 12(2), 83-90. (Citation: 1).
12. P. Srinivasan, A. Sudha, N. Umamaheswari, R. Vanajothi, **P. Rameshthangam**, (2012), “Modeling of quorum sensing regulatory protein of *Vibrio harveyi* from shrimp aquaculture system and *In silico* prediction of active drugs” *International Journal of Current Science*, 2, 5-13.
13. **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*, EBSCO online library, United States, 4(2), 348-351. (IF: 0.74).
14. **P. Rameshthangam**, P. Srinivasan, P. Ramasamy, (2011), “White Spot Syndrome Virus – An Overview” *International Journal of Current Research*, 2(2), 28- 41.
15. 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*, EBSCO online library, United States, 3 (7), 1598-1601. (IF: 0.74; Citation: 6).
16. **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*, Elsevier, Netherlands, 126(1-2), 38-44. (IF: 2.324; Citation: 60).
17. **P. Rameshthangam**, P. Ramasamy, (2006), “Antioxidant and membrane bound enzymes activity in WSSV-infected *Penaeus monodon* Fabricius” *Aquaculture*, Elsevier, Netherlands, 254 (1-4), 32-39 (IF: 1.878; Citation: 40).
18. **P. Rameshthangam**, P. Ramasamy, (2005), “Protein expression in white spot syndrome virus infected *Penaeus monodon* Fabricius” *Virus Research*, Elsevier, Netherlands, 110 (1-2), 133-141. (IF: 2.324; Citation: 11).