

Dr. P. KUMAR Assistant Professor

Contact	
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Employee Number	: 36404
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Academic Qualifications: M.Sc., Ph.D.

Teaching Experience: 2 Years

Research Experience: 6 Years

Additional Responsibilities

- 1. Member Journal Club, DAHM, Alagappa University, KKD.
- 2. Member Library Committee, DAHM, Alagappa University, KKD.
- 3. Member Alumni & Parent teacher committee, DAHM, Alagappa University, KKD.
- 4. Member Departmental purchase committee, DAHM, Alagappa University, KKD.
- 5. Member Counselling & Career guidance, DAHM, Alagappa University, KKD.
- 6. Department co-ordinator Village Placement Programme (2016-2017).
- 7. University Representative DDE examination (May, 2016 & December, 2016)
- 8. SSP & DDE-Personal Contact Programme- Zoology

Food chemistry and Molecular Cancer Biology

Research Supervision / Guidance

Pro	Program of Study		Ongoing
Research	Ph.D.	-	1
	M.Phil.	4	4
Project	PG	2	1
	UG / Others	-	-
blications			

International National Others Journals Conferences Journals Books / Conferences Chapters / Monographs / Manuals 21 3 11 --

Cumulative Impact Factor (as per JCR)	:	25.691
h-index	:	8
i10 index	:	8
Total Citations	:	328

Ongoing Projects

S. No	Agency	Period			Budget
		From	То	Project Title	(Rs. In lakhs)
1	UGC	2017	2019	Role of Aaptamine-Conjugated Gold Nanorods in Mitochondrial Dysfunction of Human Breast Cancer Cell Lines	10
2	DST- SERB	2017	2020	Molecular insights of platinum conjugated doxorubicin theranostic system targeting apoptosis-mediated genomic instability in breast cancer cell line(s)	26.7
3	DST- SERB	2018	2020	Development of surface-charge impregnated plasmonic gold nanoprobes for enhanced photodynamic therapy and mitochondrial dysfunction in human breast cancer cell line(s)	Approved

Patents -

Distinctive Achievements / Awards

- **1.** Early Career Research Award by Science and Engineering Research Board, New Delhi, Dec-2016
- **2.** Start-up grant for the newly appointed faculty by University Grants Commission, New Delhi, Aug-2016.
- **3.** Cover Page article Inorganic Frontiers and Chemistry, 2014 **DOI**: 10.1039/C4QI00018H.
- **4.** Awarded Junior Research & Senior Research Fellowship by DST-NRDMS (2010 2014).

Events organized in leading roles

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

 As a convenor, organized "World Animal Day Celebration" by the Department of Animal Health and Management, Alagappa University, Karaikudi on 5th October, 2016.

Conferences / Seminars / Workshops: 17

- National conference on Trends in Microbiology (NCTM-2017) organized by the Department of Microbiology, Alagappa University, Karaikudi – 630 003 during 27th September, 2017.
- 2. National Seminar on "Nanomaterials for Specialized Applications" (NMSA-2017) organized by the Department of Nanoscience and Technology, Alagappa University, Karaikudi 630 003 during 9th & 10th February, 2017.
- International Conference on "Recent Trends in Microbiology" (RTM-2016) organized by the Department of Microbiology, Alagappa University, Karaikudi – 630 003 during 20th – 21th December, 2016.
- Completed the International workshop on "Molecular Physiology, Therapeutics and Experimental Medicine" organized by the Department of Animal Health and Management, Alagappa University, Karaikudi between 6th & 7th September, 2016.
- National Seminar on "Recent Trends in Nanotechnology and Aquaculture Technologies" (RTNAT – 2016) organized by Department of Fishery Science and Aquaculture, Sri Venkateswara University, Tirupati, India during 18 – 19th August, 2016.
- International Conference on "Recent Trends in Bioscience" (ICRTB-2016) organized by Biosciences Department, Alagappa University, Karaikudi – 630 004 during 07th – 09th April, 2016.
- State level seminar on "Exploring Marine Resources" organized by Department of Oceanography and Coastal Area Studies, School of Marine Sciences, Alagappa University, Thondi – 623 409 on 19th February, 2016.
- 8. Successfully completed the National Workshop on "Techniques in Animal Cell Culture & In vitro Toxicology" organized by the Mahatma Gandhi – Doerenkamp Centre, Bharathidasan University, Tiruchirappalli on 18th – 27th December, 2013.
- 9. State level seminar on "Trends in Protein Engineering" organized by Department of Zoology, Periyar University, Salem 636 011 on 21st November, 2013.
- National "Brain storming Conference on Dengue Scenario in India: Disease burden, surveillance and control" organized by Centre for Research in Medical Entomology, Indian Council for Medical Research, Madurai, India during 25 – 26th July, 2013.

- International conference on "Advances in Biotechnology and Patenting" (ICABP-2013) organized by School of Biotechnology & Chemistry, Bharathidasan University, Tiruchirappalli, India during 18 – 21st February, 2013.
- 12. 12th Indian Science Communication Congress (ISCC-2012) Risk Communication & Development" organized by Indian National Science Academy, New Delhi, India during 17 – 21st December, 2012.
- National seminar of the 2nd Indian Biodiversity Congress organized by Centre for Ecological Sciences, Indian Institute of Science, Bengaluru, India during 9 – 11th December, 2012.
- 14. National conference on "Conservation and Management of Wetland Ecosystems" organized by the School of Environmental Sciences, Mahatma Gandhi University, Kottayam, India during 6 8th November, 2012.
- 15.35th Annual conference of Ethological Society of India (ACESI-2011) & Symposium on Chemical Signals in Animal Welfare (CSAW-2011) organized by the Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli, India during 15 & 16th December, 2011.
- 16. Successfully completed the Post Seminar Workshop on "Spatial Techniques for Environmental Sustainability" organized by the Department of Environmental Management, Bharathidasan University, Tiruchirappalli, India on 17th & 18th February, 2011.
- 17. State level seminar on "Bioinformatics" organized by the Department of Biochemistry and Microbiology, V.V. Vanniaperumal College for Women, Virudhunagar, India during 8th February, 2007.
- National conference on "Environmental Pollution Management and Sustainable Development" organized by the Department of Biology, Gandhigram Rural University, Gandhigram, India during 14 & 15th December, 2006.
- 19. National Symposium on "Challenges of human life in the new century: Role of biotechnologists" organized by the Department of Biotechnology, Sri Kaliswari College, Sivakasi, India during 16 & 17th September, 2005.

Other Training Programs

- Successfully completed the A one-week short term training programme on "Research Publication and Anti-Plagiarism" organized by the Department of English and Foreign Languages & Centre for Technical and Academic Writing, Alagappa University during 9th – 15th October, 2017.
- Successfully completed the "Two days training programme on "Business Resource of Solid Waste Management through Vermicomposting" organized by the Department of Animal Health and Management, Alagappa University, Karaikudi – 630 003 during 14th & 15th February, 2017.

- Successfully completed the Short-term Training Programme on "Training and Scope of SCUBA Diving" organized by the Department of Oceanography and Coastal Area Studies, Alagappa University, Karaikudi – 630 003 during 15th & 16th February, 2017.
- Successfully completed the Faculty Development (Enrichment Program) ~Accreditation Quality Enhancement~ organized by the Internal Quality Assurance Cell, Alagappa University, Karaikudi – 630 004 during 6th – 12th January, 2017.
- 5. Successfully completed a Two Day Orientation Programme to the Newly Recruited Faculty Members under "Academic and Technical Writing Centre" organized by the Department of English and Foreign Languages, Alagappa University, Karaikudi during 29th & 30th March, 2016.
- 6. Successfully completed the training programme on "Live fee culture Production (Artemia, Phytoplankton's & Zooplanktons, Spirulina) and Seaweed culture and its allied Industries" organized by the Department of Animal Health and Management, Alagappa University, Karaikudi on 26th February, 2016.
- Successfully completed the training programme on "Remote Sensing and GIS for Environmental Studies" organized by the Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli on 23rd – 25th March, 2015.
- Successfully completed a training programme on "Reduction of CO₂ and Other Air Pollutants through Phytoremediation" organized by the Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli on 29th – 30th December, 2011.
- Successfully completed "User Interfaces training program on Arc GIS 10 Environment and Health GIS" sponsored by ESRI, India at Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli on 11th to 15th July, 2011.
- 10. Successfully underwent Summer Internship Program (6 month) entitled "Identification and Molecular Characterization of 182 kDa cardiac protein from marine sponge (*Spongia officinalis*)" under the guidance of Prof. C. Rajamanickam, OSHO Biotech Research Institute, Madurai.
- 11. Successfully completed ten day special camping programming on the theme "Youth for Cleanliness" during 13th to 22nd January, 2005 organized by the National Service Scheme, Madurai Kamaraj University, Madurai, India.
- 12. Successfully completed one month "On Job Training Program" in the field of "Food Microbiology" during May 2006, at Indian Foods, Madurai, India.

- 13. Successfully completed one month "On Job Training Program" in the field of "Agricultural Microbiology - Production of Bio-fertilizers and Bio-pesticides" during April 2006, at K.S.R Bio-Fertilizers, Madurai, India.
- 14. Successfully completed one month "On Job Training Program" in the diagnostic Centre in the field of "Microbiology, Clinical Pathology, Histopathology and Biochemistry" during May 2005, at Bose Clinical Laboratory and X-rays, Madurai, India

Overseas Exposure / Visits: -

Membership in

Professional Bodies

- 1. Life Member: International Association for Ecology.
- 2. Life Member: Indian Climate Research Network.
- 3. Life Member: International Seaweed Association.
- 4. Life Member: International Sustainable Development Research Society.

Editorial Board: -

Advisory Board: -

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

Others: -

Resource persons in various capacities

Number of Invited / Special Lectures delivered: -

Others

- 1. Articles published in Newspapers / Magazines : -
- 2. Products developed : -
- 3. No. of PhD Thesis evaluated : -
- 4. No. of PhD Public Viva Voce Examination conducted : -
- 5. Sequences submitted in GenBank:2
 - ➤ Accession. No's. FJ89014 & FJ97609.

Recent Publications

- 1. **P. Kumar**, M. Kannan, V. ArunPrasanna, B. Vaseeharan, S. Vijayakumar, (2018) "Proteomics analysis of crude squid ink isolated from Sepia esculenta for their antimicrobial, antibiofilm and cytotoxic properties, *Microbial Pathogenesis*, Vol-116, pp. 345-350. (**IF-2.009**).
- 2. **P. Kumar** and J. Joe Antony, (2016), "Metal nanoparticles from marine seaweeds A Review" *Nanotechnology Reviews* Vol. 5(6), pp. 589-600. (**IF-1.438**).
- 3. S. Veeralakshmi, S. Nehru, G. Sabapathi, S. Arunachalam, P. Venuvanalingam, **P. Kumar**, C. Anusha and V. Ravikumar, (2015), "Single and double chain surfactant-cobalt complexes: The impact of hydrophobicity on the interaction with calf thymus DNA, and their biological activities" *RSC advances* Vol. **5**, pp. 31746-31758. (**IF-3.108**).
- 4. **P. Kumar**, S. Senthamilselvi, M. Govindaraju, R. Sankar, (2014), "Unraveling the caspase mediated mechanism for phloroglucinol-encapsulated starch biopolymer against breast cancer cell line (MDA-MD-231)" *RSC advances* Vol. **4**, pp. 46157-46163. (**IF-3.108**).
- 5. **P. Kumar**, S. Senthamilselvi, M. Govindaraju, (2014), "Phloroglucinol encapsulated starch biopolymer: Preparation, antioxidant and cytotoxic effect on HepG2 liver cancer cell lines". *RSC advances*, Vol. **4**, pp. 26787-26795. (**IF-3.108**)
- S. Veeralakshmi, S. Nehru, S. Arunachalam, P. Kumar, M. Govindaraju, (2014), "Effect of the Single and Double Chain Surfactant-Cobalt (III) Complexes on their Hydrophobicity, Micelle Formation, Interaction with Serum Albumins and Antibacterial activities". *Inorganic Chemistry Frontiers*, Vol. 1, pp. 393-404. (IF-4.036).
- 7. **P. Kumar**, S. Senthamilselvi, M. Govindaraju, (2013), "Seaweed-mediated biosynthesis of silver nanoparticles using *Gracilaria corticata* for its antifungal activity against *Candida* spp." *Applied nanoscience*, Vol. **3(6)**, pp. 495-500. (**IF-3.325**).
- 8. S. Senthamilselvi, **P. Kumar**, A. Lakshmi Prabha, M. Govindaraju, (2013), "Green simplistic biosynthesis of anti-bacterial silver nanoparticles using *Annona squamosa* leaf extract" *Nano Biomedicine and Engineering*, Vol. 5(2), pp. 102-106.
- 9. **P. Kumar**, M. Govindaraju, S. Senthamilselvi, K. Premkumar, (2013), "Photocatalytic degradation of methyl orange dye using silver (Ag) nanoparticles synthesized from *Ulva lactuca*" *Colloids and Surfaces B: Biointerfaces*, Vol. **103**, pp. 658-661. (**IF-3.887**).
- 10. **P. Kumar**, S. Senthamilselvi, M. Govindaraju, (2013), "GC-MS Profiling and Antibacterial activity of *Sargassum tenerrimum*" *Journal of Pharmacy Research*, Vol. **6(1)**, pp. 88-92.
- 11. **P. Kumar**, S. Senthamilselvi, M. Govindaraju, (2012), "In vitro anti-biofilm and antibacterial activity of *Juncella juncea* for its biomedical application" *Asian Pacific Journal of Tropical Biomedicine*, Vol. **2(12)**, pp. 930-935.

- 12. P. Kumar, S. Senthamilselvi, A. Lakshmi Prabha, M. Selvaraj, L. Macklin Rani, P. Suganthi, B. Sarojini Devi, M. Govindaraju, (2012), "Anti-bacterial activity and In-vitro cytotoxicity assay against brine shrimp using silver nanoparticles synthesized from *Sargassum ilicifolium*" *Digest Journal of Nanobiomaterials and Biostructures*, Vol. 7(4), pp. 1447-1455. (IF-0.836).
- 13. P. Kumar, S. Senthamilselvi, A. Lakshmi Prabha, K. Premkumar, V.R. Muthukumaran, P. Visvanathan, R.S. Ganeshkumar and M. Govindaraju, (2012), "Efficacy of Biosynthesized silver nanoparticles from *Acanthophora spicifera* to encumber biofilm formation", *Digest Journal of Nanomaterials and Biostructures*, Vol. 7(2), pp. 511-522. (IF-0.836).
- 14. **P. Kumar**, S. Senthamilselvi, A. Lakshmi Prabha, K. Prem Kumar, R.S. Ganeshkumar and M. Govindaraju, (2012), "Synthesis of silver nanoparticles from *Sargassum tenerrimum* and screening phytochemicals for its antibacterial activity, *Nano Biomedicine and Engineering*, Vol. **4(1)**, pp. 12 16.