



Dr. R. KUMAR
Adjunct Faculty

Contact

Address : Department of Fisheries Science
MIS Building, Science Campus
Alagappa University
Karaikudi – 630 003
Tamil Nadu, India.

Contact Phone (Office) : +91 4565 226007

Contact Phone (Mobile) : +91 9652468567

Contact e-mail(s) : rkumar.vitu@gmail.com

Academic Qualifications

Degree	Institution	Year	Branch	Class
Ph. D.	VIT University, Vellore, Tamil Nadu	Jan 2016	Microbiology	Awarded
M. Sc.	Vellore Institute of Technology, Vellore, Tamil Nadu	2005	Applied Microbiology	First
B. Sc.	P.V.K.N. Govt. College, Chittoor affiliated to Sri Venkateswara University, Tirupati, Andhra Pradesh	2003	Microbiology, Zoology, Chemistry	Distinction

Teaching Experience : 3.5 years

Position	Institution / University	Duration
Adjunct Faculty	Department of Fisheries Science, Alagappa University, Karaikudi, Tamil Nadu	01.04.2021 to till date
Assistant Professor	Department of Microbiology, Vivekanandha College of Arts & Sciences for Women (Autonomous), Tiruchengode, Tamil Nadu	03.06.2019 to 20.08.2019
Lecturer	Department of Microbiology, MNR PG College, Hyderabad, Telangana	02.08.2016 to 09.12.2016

Research Experience : 10.7 Years

Position	Institution / University	Duration
Adjunct Faculty	Department of Fisheries Science, Alagappa University, Karaikudi, Tamil Nadu	01.04.2021 to till date
Post-Doctoral Fellow	Department of Animal Health and Management, Alagappa University, Karaikudi, Tamilnadu, India	21.08.2019 to 31.03.2021
Post-Doctoral Fellow	Faculty of Science, Chulalongkorn University, Bangkok, Thailand	01.01.2017 to 31.12.2018
Research Associate	School of Bio Sciences and Technology, VIT University, Vellore, Tamil Nadu	01.03.2011 to 30.04.2015

Industry Experience: 5.6 Years

Position	Institution /Industry	Duration
Microbiologist	Fruit Quality Assurance, Jain Irrigation Systems Ltd., Fruit Processing Division, Chittoor Unit I, Gangadhara Nellore (Mandal), Chittoor, Andhra Pradesh	12.06.2008 to 31.01.2011
Lab In-Charge	Lakshmi Fertility Research and Laparoscopic Surgical Centre, Nellore, Andhra Pradesh	01.09.2005 to 31.05.2008

Academic and Additional Responsibilities

S. No.	Position	University Bodies	Period	
			From	To
Department Level (Department of Fisheries Science, Alagappa University, Karaikudi)				
1.	Coordinator	Seminar and Quiz Club	2021	Till date
2.	Coordinator	Field Visits	2021	Till date
3.	Editor	Department Newsletter	2021	Till date
4.	Course Coordinator	Value Added Course	2021	Till date
5.	Coordinator	Village Extension Programme	2022	2023
6.	Coordinator	IQAC - NAAC	2023	Till date
7.	Coordinator	SWAYAM	2023	Till date

Areas of Research

- ❖ Isolation of bioactive compounds
- ❖ Probiotics & Nutraceutical
- ❖ Biosynthesis and applications of nanoparticles

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Project	PG	9	0

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
27	12	5	3	9

Cumulative Impact Factor (as per JCR)	52	
	Scopus	Google Scholar
h-index	11	13
i10 index		16
Total Citations	820	1071

Distinctive Achievements / Awards

1. 2024 Ranking for Scientist - World Scientist and University Rankings - Alagappa University from AD Scientific Index.
2. Best poster presentation award at “International Virtual Conference on Current Trends in Computational and Experimental Biology (CT-CEB 2021)” organized by Bishop Heber College, Tiruchirappalli, India (2021)
3. Full foreign travel grant awarded by Council of Scientific & Industrial Research, India (2014)
4. VIT University Research Award (2013 & 2014)
5. First and second prizes for best poster presentation in “National Workshop on Nano Composites - Synthesis, Characterization and Applications” organized by Centre for Excellence in Nano Composites, VIT University, Vellore (2013)

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 04

Position	Programme	Duration	Institution
Co-Organizing Secretary	Skill Development Training programme on “Entrepreneurship Opportunities in the Fisheries Sector”	25 th to 27 th March 2024	Department of Fisheries Science, Alagappa University, Karaikudi and Central Institute of Fisheries Technology (ICAR-CIFT)
Organizing Member	3 rd National Seminar on Next Generation Technology for Sustainable Fisheries	18 th and 19 th March 2024	Department of Fisheries Science and Centre for Distance & Online Education, Alagappa University
Delivered a Key-note address	One day workshop on Recent trends in Aquaculture and Fish Taxonomy	23 rd March 2023	Aditanar College of Arts & Science, Tiruchendur
Organizing Member	2 nd National Seminar on Next Generation Technology for Sustainable Fisheries	29 th and 30 th March 2022	Department of Fisheries Science and Department of Animal Health and Management, Alagappa University
Organizing Member	Next Generation Technology for Sustainable Fisheries	21 st November 2020	Department of Fisheries Science and Department of Animal Health and Management, Alagappa University, Karaikudi
Delivered a Key-note address	International Conference on Prospects of Biosciences in Transdisciplinary Research (PBTR’2020)	21 st January 2020	Department of Biotechnology and Bioinformatics, Bishop Heber College, Tiruchirappalli

Events Participated

Number of Conferences / Seminars / Workshops: 22

Overseas Exposure / Visits

1. **Thailand** for Post-Doctoral Fellowship in Chulalongkorn University, Bangkok from 01.01.2017 to 31.12.2018
2. **Malaysia** for presenting research paper in the International Conference on the "Challenges in Environmental Science and Engineering" (CESE-2014) organized by Universiti Teknologi Malaysia, Johor Bahru from 12.10.2014 to 16.10.2014

Membership

Professional Bodies

1. Life-Time member: Association of Microbiologists of India (AMI 4114-2015) – 2015
2. Life-Time member: Teaching and Education Research Association (TERA-M19753) – 2019
3. Life-Time member: Scientific and Technical Research Association (STRA-M19296) – 2019
4. Member: The International Academy of Science and Engineering for Development (IASED Member No. 51050332) – 2019

List of Research Articles / Recent Publications

S. No.	Authors/Title of the paper/Journal	Impact Factor
1.	Sivaranjani S, Kannan K, Kumar R , Madhuri K, Divya D Kannapiran E (2024). Meticulous taxonomic evidence and molecular confirmation of <i>Sphyraena forsteri</i> (Cuvier, 1829) (Perciformes: Sphyraenidae) from the Southeast coast of India. Thalassas: An International Journal of Marine Sciences. https://doi.org/10.1007/s41208-024-00692-4 . ISSN: 2366-1674	0.951
2.	Kannan K, Kumar R , Yosuva M, Chandra Prakash K, Kannapiran E (2024). First Record of Redfin Emperor <i>Monotaxis heterodon</i> (Lethrinidae) from Indian waters with molecular confirmation. Journal of Ichthyology. https://doi.org/10.1134/S0032945224020036 . ISSN: 1555-6425	0.7
3.	Kumar R , Madhuri K, Kannan K, Kannapiran E, Sivaranjani S (2024). Chitinase from <i>Streptomyces mutabilis</i> as an effective eco-friendly biocontrol agent. Applied Biochemistry and Biotechnology, 196, 18–31. https://doi.org/10.1007/s12010-023-04489-8 . ISSN: 1559-0291	3.094

4.	Kiruba R, Kannapiran E, Madhuri K, Kumar R , Krishnasamy K, Sivasubramanian S, Padmapriya P (2023). Antiviral Activity of Marine Actinomycetes, <i>Saccharopolyspora jiangxiensis</i> IMA1 against Influenza A/(H1N1) pdm09. Journal of Pure and Applied Microbiology, 17(4), 2547-2556. https://doi.org/10.22207/JPAM.17.4.52 . ISSN: 2581-690X	0.7
5.	Kiruba R, Kannapiran E, Sivasubramanian S, Krishnasamy K, Kumar R , Gracy Fathima S, Padmapriya P (2023). Evolution and phylodynamics of Hemagglutinin protein of Influenza A/(H1N1)pdm09 virus isolates from India during 2009 to 2020. Japanese Journal of Infectious Diseases, 76 (4), 219-225. https://doi.org/10.7883/yoken.JJID.2022.453 . ISSN: 1884-2836	2.541
6.	Kannan K, Kumar R , Raja S, John S, Kannapiran E (2023). Molecular taxonomy and distribution status of <i>Odontanthias perumali</i> (Talwar, 1976) from Bay of Bengal, Eastern Indian Ocean. Thalassas: An International Journal of Marine Sciences, 39, 1039–1045. https://doi.org/10.1007/s41208-023-00605-x . ISSN: 2366-1674	0.951
7.	Kannan K, Kumar R , Raja S, Chandra Prakash K, Kannapiran E (2023). Length-weight relationship of flying fishes (Exocoetidae) from Bay of Bengal, Eastern Indian Ocean. Thalassas: An International Journal of Marine Sciences, 39, 509–512. https://doi.org/10.1007/s41208-023-00549-2 . ISSN: 2366-1674	0.951
8.	Kiruba R, Krishnasamy K, Anupama CP, Kannapiran E, Kumar R (2023). Magnitude and clinico-epidemiological pattern of influenza from 2014 to 2019 in Chennai, India. International Journal of Biology, Pharmacy and Allied Sciences 12(5), 2295-2308. https://doi.org/10.31032/IJBPAS/2023/12.5.7154 . ISSN: 2277-4998	-
9.	Kannan K, Kumar R , Kannapiran E (2023). Growth, condition factor, food and feeding habits of hill stream fish <i>Garra mullya</i> (Sykes, 1839) in Thamirabarani River Basin, Southern Western Ghats of India. Journal of Xidian University, 17(3), 130-137. https://doi.org/10.37896/jxu17.3/013 . ISSN: 1001-2400	-
10.	Kannan K, Kannapiran E, Sivaranjani S, Kumar R , Madhuri K, Divya D (2022). Weight-length relationships and Fulton's condition factors of ten commercially important Scombridae fish species in Southeast coast of India, Bay of Bengal. Thalassas: An International Journal of Marine Sciences 38, 709–713. https://doi.org/10.1007/s41208-021-00390-5 . ISSN: 2366-1674	0.620
11.	Divya D, Madhuri K, Kumar R , Kannan K, Ravindran J, Kannapiran E (2021). Protein leakage induced marine antibiofouling activity of biosynthesized zinc oxide nanoparticles. Journal of Cluster Science 32, 643–650. https://doi.org/10.1007/s10876-020-01827-2 . ISSN: 1572-8862	3.061

12.	Kannan K, Sivaranjani S, Kumar R , Karuppasamy K, Prabhu NM, Kannapiran E (2021). Length-weight relationship of six demersal fish species from Gulf of Mannar, Bay of Bengal, Eastern Indian Ocean. <i>Journal of Applied Ichthyology</i> 37 (2), 367-369. https://doi.org/10.1111/jai.14177 . ISSN: 1439-0426	0.612
13.	Kumar R , Latha P, Madhuri K, Sen S, Divya D, Kannan K, Kannapiran E (2021). Toxicological evaluation of biosynthesised hematite nanoparticles <i>in vivo</i> . <i>Colloids and Surfaces B: Biointerfaces</i> 198, 111475. https://doi.org/10.1016/j.colsurfb.2020.111475 . ISSN: 0927-7765	4.389
14.	Divya D, Madhuri K, Kumar R , Kannan K, Jeyameenakshi A, Karthick Rajan D, Prakash S, Kannapiran E (2021). Antibacterial and cytotoxicity activities of biosynthesized silver oxide (Ag ₂ O) nanoparticles using <i>Bacillus paramycooides</i> . <i>Journal of Drug Delivery Science and Technology</i> 61, 102111. https://doi.org/10.1016/j.jddst.2020.102111 . ISSN: 1773-2247	3.981
15.	Kannan K, Kodeeswaran P, Kumar R , Madhuri K, Divya D, Kannapiran E (2021). Length-weight relationship of Coral reef-associated fishes from Gulf of Mannar and Palk Bay, Southeast Coast of India. <i>Journal of Applied Ichthyology</i> 37 (1), 162-164. https://doi.org/10.1111/jai.14102 . ISSN: 1439-0426	0.612
16.	Madhuri K, Divya D, Vinita M, Kannapiran E, Malaikozhundan B, Kumar R (2020). Assessment of the effect of green synthesized silver nanoparticles against aquatic pathogen <i>Aeromonas hydrophila</i> using <i>Artemia</i> nauplii. <i>Indian Journal of Geo-Marine sciences</i> 49 (12), 1831-1838. ISSN: 0975-1033. https://nopr.nisrpr.res.in/bitstream/123456789/55949/1/IJMS%2049%2812%29%201831-1838.pdf .	0.328
17.	Kannan K, Kannapiran E, Paramasivam K, Kumar R , Madhuri K, Divya D (2020). Length-weight relationships of three Clupeiformes species from the Southeast coast of India, Bay of Bengal, Eastern Indian Ocean. <i>Journal of Applied Ichthyology</i> 36 (6), 860-862. https://doi.org/10.1111/jai.14092 . ISSN: 1439-0426	0.612
18.	Madhuri K, Divya D, Kumar R , Kannan K, Malaikozhundan B, Kannapiran E (2020). Pharmacological activities of coral reef associated actinomycetes, <i>Saccharopolyspora</i> sp. IMA1. <i>Biocatalysis and Agricultural Biotechnology</i> , 28, 101748. https://doi.org/10.1016/j.bcab.2020.101748 . ISSN: 1878-8181	-
19.	Kumar R , Sen S (2018). Adsorptive removal of carbamazepine using biosynthesized hematite nanoparticles. <i>Environmental Nanotechnology, Monitoring & Management</i> , 9, 122-127. ISSN: 2215-1532. https://doi.org/10.1016/j.enmm.2018.01.001 .	-
20.	Kumar R, Sen S (2017). Evaluation of cytotoxicity of hematite nanoparticles in bacteria and human cell lines. <i>Colloids and Surfaces B: Biointerfaces</i> , 157, 101-109. https://doi.org/10.1016/j.colsurfb.2017.05.052 . ISSN: 1873-4367	4.389

21.	Vithiya K, Kumar R , Sen S (2017). Optimization of biosynthesis of silver oxide nanoparticles and its anticancer activity. <i>International Journal of Nanoscience</i> , 16 (5-6), 1750018. https://doi.org/10.1142/S0219581X17500181 . ISSN: 1793-5350	-
22.	Kumar R , Sen S (2016). Optimization of process parameters for the rapid biosynthesis of hematite nanoparticles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 159, 82-87. ISSN: 1873-2682 https://doi.org/10.1016/j.jphotobiol.2016.03.023 .	4.383
23.	Kumar R , Vithiya K, Mahanty B, Sen S (2015). Biosynthesis of hematite nanoparticles and its cytotoxic effect on HepG2 cancer cells. <i>International Journal of Biological Macromolecules</i> , 74, 376–381. ISSN: 1879-0003 https://doi.org/10.1016/j.ijbiomac.2014.12.028 .	5.162
24.	Kumar R , Swarna VK, Sasi V, Jagan G, Sen S (2015). Effective utilization of leather waste for cultivation of bacteria. <i>Asian Journal of Water, Environment and Pollution</i> , 12(4), 79-82. https://doi.org/10.3233/AJW-150020 . ISSN: 1875-8568	-
25.	Kumar R , Sen S (2015). Effect of capping agent on antimicrobial activity of nanoparticles. <i>Der Pharmacia Lettre</i> 7(11), 37-42. ISSN: 0975-5071	-
26.	Vithiya K, Kumar R , Sen S (2014). Antimicrobial activity of biosynthesized silver oxide nanoparticles. <i>Journal of Pure and Applied Microbiology</i> , 8(4), 3263-3268. ISSN: 2581-690X	0.3
27.	Sen S, Dasu VV, Mandal B, Kumar R (2014). Enzymatic removal of burnt-on protein residues from solid surface: a potential food equipment cleanser. <i>Food Control</i> , 40, 314-319. https://doi.org/10.1016/j.foodcont.2013.12.013 . ISSN: 1873-7129	4.258
28.	Vithiya K, Kumar R , Sen S (2014). <i>Bacillus</i> sp. mediated extracellular synthesis of silver nanoparticles. <i>International Journal of Pharmacy and Pharmaceutical Sciences</i> , 6(2), 525-527. ISSN: 0975-1491 https://innovareacademics.in/journal/ijpps/Vol6Suppl2/8505.pdf	-
29.	Kumar R , Sen S (2013). Biogenic magnetite nanoparticles. <i>Research Journal of Pharmaceutical, Biological and Chemical Sciences</i> , 4(3), 1037-1043. https://www.rjpbcs.com/pdf/2013_4(3)/[109].pdf . ISSN: 0975-8585	-
30.	Thenmozhi M, Kannabiran K, Kumar R , Khanna VG (2013). Antifungal activity of <i>Streptomyces</i> sp. VITSTK7 and its synthesized Ag ₂ O/Ag nanoparticles against medically important <i>Aspergillus</i> pathogens. <i>Journal de Mycologie Médicale</i> , 23(2), 97–103. https://doi.org/10.1016/j.mycmed.2013.04.005 . ISSN: 1773-0449	1.56

31.	Kumar R , Roopan SM, Prabhakarn A, Khanna VG, Chakroborty S (2012). Agricultural waste <i>Annona squamosa</i> peel extract: Biosynthesis of silver nanoparticles. <i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i> , 90, 173-176. https://doi.org/10.1016/j.saa.2012.01.029 . ISSN: 1873-3557	3.232
32.	Roopan SM, Bharathi A, Kumar R , Khanna VG, Prabhakarn A (2012). Acaricidal, insecticidal, and larvicidal efficacy of aqueous extract of <i>Annona squamosa</i> L peel as biomaterial for the reduction of palladium salts into nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 92, 209-212. ISSN: 1873-4367 https://doi.org/10.1016/j.colsurfb.2011.11.044 .	4.389
Book Chapters		
S. No.	Authors/Book chapter title/Book	Publisher
1.	Kumar R , Latha P, Madhuri K, Divya D, Kannan K, Kannapiran E (2023). Toxicity of Nanomaterials. In: Verpoort F, Ahmad A, Khan A, Sanjay MR, Ali S (Eds.), <i>Nanomaterials- based Electrochemical Sensors: Properties, Applications and Recent Advances</i> , pp. 53-76. ISBN: 9780128225127.	Elsevier
2.	Kumar R , Divya D, Madhuri K, Kannan K, Kannapiran E (2021). Nutraceutical sector and nano-medicine. In: Verpoort F, Ahmad A, Ahmad I, Khan A, Chee CY (Eds.), <i>Nanomedicines Manufacturing and Applications (Book series: Micro and Nano Technologies)</i> , pp. 321-336. ISBN: 9780128207734. https://doi.org/10.1016/B978-0-12-820773-4.00014-7 .	Elsevier
3.	Kumar R , Latha P, Kannapiran E (2021). Biodegradation and Bioremediation of S-Triazine Herbicides. In: Gothandam KM, Ranjan S, Dasgupta N, Lichtfouse E (Eds.), <i>Environmental Biotechnology Vol. 3 (Book series: Environmental Chemistry for a Sustainable World, vol. 50)</i> , pp. 31-54. ISBN: 978-3030489724. https://doi.org/10.1007/978-3-030-48973-1_2 .	Springer
4.	Kumar R (2020). Biological Synthesis and Applications of Iron Oxide Nanoparticles. In: Karthik L, Vishnu Kirthi A, Shivendu R, Mohana Srinivasan V (Eds.), <i>Biological Synthesis of Nanoparticles and Their Applications</i> , pp. 85-91. ISBN: 978-0367210694.	CRC Press
5.	Kumar R , Latha P, Sen S (2018). Antioxidant Nutraceuticals as health drinks for prevention of diseases. In: Chuanhai C, Sarvadaman P, Kiran P (Eds.), <i>Antioxidant Nutraceuticals: Preventive and Healthcare Applications</i> , pp. 44-53. ISBN: 978-1-4987-3703-6.	CRC Press

6.	Kumar R , Sen S (2017). Metallic nanoparticles in food industry: Advantages and Limitations. In: Sen S and Yashwant P (Eds.), Nanotechnology in Nutraceuticals: Production to Consumption, pp. 57-86. ISBN: 978-1498721882.	CRC Press
7.	Kumar R , Sen S (2017). Targeted Delivery of Nutraceuticals using Nanoparticles. In: Sen S and Yashwant P (Eds.), Nanotechnology in Nutraceuticals: Production to Consumption, pp. 87-116. ISBN: 978-1498721882.	CRC Press
8.	Kumar R , Sen S, Latha P (2017). Nanotechnology in probiotics and prebiotics. In: Sen S and Yashwant P (Eds.), Nanotechnology in Nutraceuticals: Production to Consumption, pp. 177-196. ISBN: 978-1498721882.	CRC Press
9.	Kumar R , Shanmuga Sundari I, Gupta ND, Sen S (2016). Animal fat and vegetable oil based platform chemical biorefinery. In: Brar SK, Sarma SJ, Pakshirajan K (Eds.), Platform Chemical Biorefinery: Future Green Industry, pp. 361-377. ISBN: 978-0-12-802980-0.	Elsevier

Resource persons in various capacities

National Conferences	0
International Conferences	1
Invited Lectures	1