

Personal Details	Prof. Dr. KASI MARIMUTHU
Academic Qualifications	<p>Ph. D. Zoology/Environmental Biotechnology (Inter disciplinary), (2003), Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, INDIA</p> <p>M. Sc. Environmental Biotechnology (Specialization in Aquaculture Biotechnology), (1997), Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, INDIA</p> <p>MBA., 2015 Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, INDIA</p> <p>B.Sc. Zoology (Specialization in Fisheries), (1995), Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, INDIA</p> <p>DIPC, (Diploma in Industrial Pollution and Control). (1998), Annamalai University, Chidambaram, Tamilnadu, INDIA</p>
Administrative Duties	Dean/Dep. Dean/Coordinator/etc
Publications (last 5 years)	<p>Publications including books</p> <ul style="list-style-type: none"> • <u>BOOKS</u> <p><u>PUBLISHED:</u></p> <ol style="list-style-type: none"> 1. Subhash Bhore & K. Marimuthu (Editors). Focus on Environment Challenges and Perspectives for Sustainable Development. Published by AIMST University, 2016; ISBN: 978-967-14475-0-5 (Print version); eISBN: 978-983- 43522-9-5 (e-Book version). 2. Subhash Bhore & K. Marimuthu, M. Ravichandran (Editors). Biotechnology for Sustainability – Achievements, Challenges, Perspectives. Published by AIMST University, 2017; ISBN: 978-967-14475-3-6 (Print version); eISBN: 978- 963-14475-2-9 (e-Book version) <p><u>Published in BOOKS and Proceedings</u></p> <ol style="list-style-type: none"> 1. KASI MARIMUTHU, AKULA UMASANKAR, XAVIER-RAVI BASKARAN (2020). "SUSTAINABLE AQUATIC BIODIVERSITY PROSPECTS AND CONSERVATION" - In Degeneration to Regeneration Alternative Approaches, Published by Royal Book Publishing – International, Ayodhiyapatinam, Salem, Tamil Nadu-636103, India 2. M. Aminur Rahman, Md. Shamim Parvez and Kasi Marimuthu.2016. Integrated Rice-Fish Farming: A New Avenue for Sustainable Agriculture. Focus on Environment Challenges and Perspectives for Sustainable Development. Focus Environ (2016), 16-30

3. M. Aminur Rahman, Md. Shamim Parvez and **Kasi Marimuthu**. 2016. Prospects, Potentials, Practices and Benefits of Integrated Rice-Fish Farming in Bangladesh. International Journal of Biological, Ecological and Environmental Sciences (IJBEES), 5 (1), - ISSN 2277 – 4394.
4. Bogiswary. S, R. Jegathambigai and **K. Marimuthu**. (2008). Effect of Acute toxicity of cadmium chloride in the morphology of the liver and kidney of mice. In proceedings of international conference on Environmental Research and Technology (ICERT 2008). Pp 1036- 1042.
5. **Haniffa, M. A and K. Marimuthu, 2004**. Induced breeding in threatened, vulnerable and endangered fish species: a review. Proceedings of Fisheries Biotechnology. Edited by W.S. Lakra, S.A.H. Abidi, S.C. Mukherjee and S. Ayyappan. Delhi, Narendra, xvi, 240 p., ISBN 81-85375-86-0.

PAPERS PUBLISHED IN JOURNALS WITH IMPACT FACTOR:

1. **Marimuthu, K.,** R. Subramaniam, B. Lertanantawong, S.Y. Lee, J.F. Borgio, S.M.N. Amin, S. Abdul Azeez, M.A. Rahman and A. Arshad, ,: Toxicity of gold nanoparticles the survival and hatching rates of African catfish (*Clarias gariepinus*) embryo and larvae. Journal of Environmental Biology, 41, 1179-1185 (2020)
2. Kumarasan Yukgehnaish, Praveen Kumar, Parimannan Sivachandran, **Kasi Marimuthu**, Aziz Arshad, Bilal Ahmad Paray, Jesu Arockiaraj. 2020. Gut microbiota metagenomics in aquaculture: Factors influencing gut microbiome and its physiological role in fishes. Reviews in Aquaculture 12(3): **1903-1927**, <https://doi.org/10.1111/raq.12416>. (Impact factor: 7.2) 2020 Wiley Publishing Asia Pty Ltd
3. Nazish Shah, Ahsan Khan, Riaz Ali, Kasi Marimuthu, Muhammad Nazir Uddin, Muhammad Rizwan, Khaliq Ur Rahman, Mukhtar Alam, Muhammad Adnan, Muhammad, Shahibzada Muhammad Jawad, Saddam Hussain, and Muhammad Khisroon (2020). Monitoring Bioaccumulation (in Gills and Muscle Tissues), Hematology, and Genotoxic Alteration in *Ctenopharyngodon idella* Exposed to Selected Heavy Metals. Hindawi BioMed Research International Volume 2020, Article ID 6185231, 16 pages <https://doi.org/10.1155/2020/6185231> (Impact factor: 2.194).
4. A. Yogeshwaran, K.Gayathiri, T. Muralisankar, V. Gayathri, J. Irene Monica, R. Rajaram, K. Marimuthu, P. Saravana Bhavan (2020). Bioaccumulation of heavy metals, antioxidants, and metabolic enzymes in the crab *Scylla serrata* from different regions of Tuticorin, Southeast Coast of India. Marine Pollution Bulletin [Volume 158](https://doi.org/10.1016/j.marpolbul.2020.111443), September 2020, 111443. Impact factor (4.09). <https://doi.org/10.1016/j.marpolbul.2020.111443>

5. Sethuraman RAMACHANDRAN, Kasi MARIMUTHU, and Lakshmanaperumal RAMALINGAM 2020. NEW RECORD OF NARROWBAR REEFGOBY *PRIOLEPIS PROFUNDA* (WEBER 1909) (PERCIFORMES: GOBIIDAE) FROM THE INDIAN WATERS. *Acta ichthyologica et piscatoria*. In Press Impact factor (0.98).
6. S Ramachandran, K Marimuthu and L Ramalingam 2020. New distributional record of Hawkfish *Cirrhitichthys bleekeri* Day, 1874 from the west coast of India with taxonomic account. *International Journal of Fisheries and Aquatic Studies* E-ISSN: 2347-5129 P-ISSN: 2394-0506 (ICV-Poland) Impact Value: 5.62 (GIF) Impact Factor: 0.549 IJFAS 2020; 8(4): 304-308 © 2020 IJFAS www.fisheriesjournal.com Received: 09-06-2020 Accepted: 26-07-2020.
7. Sridevi Ugrappa, Hemaanya A/P Pragas, Heng Wen Juin, Hoe Zhong Han, Hoo Jee Way, Ajay Jain, **Kasi Marimuthu** 2020. A Cross-Sectional Study to Evaluate the Association of Body Mass Index with Oral Health Status. *Indian Journal of Public Health Research & Development*, 11(7): 1424-1429.
8. Simon, C.; Gan, Q.F.; Kathivaloo, P.; Mohamad, N.A.; Dhamodharan, J.; Krishnan, A.; Sengodan, B.; Palanimuthu, V.R.; **Marimuthu, K.**; Rajandas, H.; Ravichandran, M.; Parimannan, S. Deciduous DPSCs Ameliorate MPTP-Mediated Neurotoxicity, Sensorimotor Coordination and Olfactory Function in Parkinsonian Mice. *International Journal of Molecular Sciences* **2019**, *20*, 568. <https://doi.org/10.3390/ijms20030568> **(Impact factor:3.687)**
9. Mohammed Baqur S Al-Shuhaib, Fadhil R Al-Kafajy, Milad Ali Badi, Sayed AbdulAzeez, **Kasi Marimuthu**, Hussein Ali Imran Al-Juhaishi, J Francis Borgio. 2018. Highly deleterious variations in COX1, CYTB, SCG5, FK2, PRL and PGF genes are the potential adaptation of the immigrated African ostrich population, *Computers in biology and medicine*, 100(1);17-26. **(Impact factor: 2.286)** Akila Sathyamoorthi, Venkatesh Kumaresan, Rajesh Palanisamy, Mukesh Pasupuleti, Mariadhas Valan Arasu, Naif Abdullah Al-Dhabi, **Kasi Marimuthu**, SM Nurul Amin, Aziz Arshad, Fatimah Md Yusoff, Jesu Arockiaraj. 2019. Therapeutic Cationic Antimicrobial Peptide (CAP) Derived from Fish Aspartic Proteinase Cathepsin D and its Antimicrobial Mechanism. *International Journal of Peptide Research and Therapeutics*, 25, (1) 15–26. **(Impact factor: 1.219)**
10. Sundaram Sornambikai, Lim Qing Hin, **Kasi Marimuthu** and Mohammed Rafiq Abdul Kadir. 2016. Fish embryo toxicity assessment of *o*-dianisidine in *Clarias gariepinus* and its electrochemical treatment in aquatic samples using super conductive carbon black. *RSC Advances.*, 6, 50255-50266. **DOI: 10.1039/C6RA00158K (Impact Factor 3.049).**
11. Kuppusamy TIMALATA, **Kasi MARIMUTHU**, Rao VENKADES RAO, Rathinam XAVIER, M. Aminur RAHMAN, Subramaniam

	<p>SREERAMANAN, Mariadhas Valan ARASU, Naif Abdullah AL-DHABI, and Jesu AROCKIARAJ. 2015. 2014. ELUCIDATION OF INNATE IMMUNE COMPONENTS IN THE EPIDERMAL MUCUS OF DIFFERENT FRESHWATER FISH SPECIES. ACTA ICHTHYOLOGICA ET PISCATORIA. 45 (3): 221-230. (Impact factor 0.708).</p>			
Completed Research	Completed Researches			
	SN. O	Title of the project	Funding agency	Amount received
	1.	<p>Main Investigator: Studies on the classification, biology and establishment of culture techniques for local Malaysian Leech.</p>	<p>MINISTRY OF AGRICULTURE - SCIENCE FUND, Malaysia</p>	<p>RM 150, 000</p>
	2.	<p>Co - Investigator: Development of a rapid ultrasensitive gold nanoparticles based genosensor for detecting etiological agent of epizootic ulcerative syndrome (EUS) in fish.</p>	<p>MOA - SCIENCE FUND, Malaysia</p>	<p>RM 215, 000</p>
	3.	<p>EFFECT OF DIFFERENT DIETS ON THE GROWTH AND SURVIVAL OF AN ENDANGERED FISH, AROWANA (SCLEROPAGES FORMOSUS)</p>	<p>AIMST University Grant</p>	<p>RM: 20,000</p>
	4.	<p>Co - Investigator: Introducing Innovative Culture Techniques of Snakehead, <i>Channa striatus</i> in Tank. For two Years from 01 /01/ 2015 to 31/12/2016</p>	<p>(Knowledge Transfer Programme) –KTP to Universiti Putra Malaysia</p>	<p>RM 180,000</p>

	5.	Main Investigator: Metagenomic Analysis of gut Microbiome of Four Malaysian Native Freshwater Fish Species	Fundamental Research Grant, Ministry of education, Malaysia	RM 96,000
Research Grants	Research Grants			
Consultancy	NIL			
Awards	Received an Excellent Researcher Award in Biotechnology 2019 from PEARL – A Foundation for Educational Excellence, Madurai, Tamilnadu India on 15 March 2020.			
Professional Membership	Of any professional society Life member - National Academy of Biological Sciences [NABS], India Member in Asian Fisheries Society.			
Supervision	Post graduates students Current Masters (MSc Biotechnology) : Awarded 4: Currently 3 PhD in Biotechnology : Awarded 2			
Teaching	The courses (including Post Graduate) Biology of invertebrates and vertebrates Aquaculture (Elective) Biostatistics (Core) Research Methodology (Core) Environmental Biotechnology (Core) Genetics			
Areas of Expertise	Aquaculture and Fisheries Breeding and seed production of commercial important air breathing and threatened fish species. Larval rearing of air breathing fishes Nutritional requirements of freshwater fishes Fish immunology & Immunomodulators in Aquaculture Toxic effects of pollutants in fishes Statistical tools and application in research			
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