

CURRICULUM - VITAE

Professor Dr. K. MARIMUTHU,

MSc (Environmental Biotechnology), MSc, (ZOOLOGY), MBA, PhD
(Environmental Biotechnology)

Department of Environmental Science

Tezpur University, Naapam Post, Sonitpur District,

Tezpur, Assam, India

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PERSONNEL PARTICULARS:

Date of Birth : 09.05.1975

Passport Number : Z5402784

Nationality : INDIAN

Marital status : Married

EDUCATIONAL QUALIFICATIONS:

- **Ph. D. Zoology/Environmental Biotechnology** (Inter disciplinary), (2003), Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, INDIA
- **M.Sc. Environmental Biotechnology (Specialization in Aquaculture Biotechnology)**, (1997), Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, INDIA
- **M.Sc. Zoology**, (2021), Madurai Kamaraj University, Tamilnadu, INDIA
- **MBA, 2015** Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, INDIA
- **B.Sc. Zoology (Specialization in Fisheries)**, (1995), Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, INDIA
- **DIPC**, (Diploma in Industrial Pollution and Control). (1998), Annamalai University, Chidambaram, Tamilnadu, NDIA

EMPLOYMENT EXPERIENCE:

Name of the Organization	Designation	Period From -To
Department of Environmental Science, Tezpur University, Tezpur, Assam, India	Professor	26th September 2022 onwards
Department of Biotechnology, Faculty of Applied Sciences AIMST University, Malaysia	Professor	From 1 st January 2017 – 23 September 2022
AIMST University, Malaysia	Deputy Vice-Chancellor Academic and International Affairs	15 March 2016 – 14 July 2017
Department of Biotechnology, Faculty of Applied Sciences AIMST University, Malaysia	Senior Associate Professor	15 April 2013 – 31 December 2016
Department of Biotechnology, Faculty of Applied Sciences AIMST University, Malaysia	Associate Professor	18 July 2007 - 14 th April 2013
Department of Biotechnology, Faculty of Applied Sciences AIMST University, Malaysia	Lecturer	18 July 2005 -17 July 2007
School of Biological Sciences University Science Malaysia, 11800, Penang, Malaysia	Post - Doctoral Fellow¹	18 Sep 2003– February 2005
Centre for Aquaculture Research and Extension, (CARE), St. Xavier's College, Palayamkottai. 627 002 Tamilnadu. India	Project Instructor (DBT)²	1 st March 2002- August 2003
Central Institute of Fresh water Aquaculture (ICAR) Kausalyaganga, Bhubaneswar, India	Senior Research Fellow (ICAR)³	April 27 –2001 Oct 30 th 2001
Centre for Aquaculture Research and Extension, (CARE), St. Xavier's College, Palayankottai. 627 002 Tamilnadu. India	Junior Research Fellow (DST)⁴	Jan 15 1998 to 22 Dec 2000

¹ Scheme entitled “**SEED PRODUCTION AND CULTURE OF HIGH-QUALITY MYSTUSNEMURUSFRYANDJUVENILESASMODELSFORDIGESTIBILITY STUDIES OF FEED MATERIALS**” – Funded by Ministry of Science and Technology, Malaysia

² Scheme entitled “**Commercial murrel culture training for SC/ST people for income generation**” – Funded by Department of Biotechnology, New Delhi, India.

³ Scheme entitled “**Breeding and seed production of selected murrel Channa striatus**”- Funded by Indian Council of Agricultural Research, New Delhi, India.

⁴ Scheme entitled “**Establishment of murrel seed production Centre by induced breeding for rural development.**”- Funded by Department of Science and Technology, New Delhi, India.

ADDITIONAL QUALIFICATION:

- **Passed - Agricultural Scientist Recruitment Board (ICAR) - National Eligibility Test, Year2001.**
- **Passed “Good Clinical Practice” examination organized by Postgraduate Medical Society, Hospital Sultana Bahiya and conducted by Clinical Research Centre, Malaysia. Year2014.**
- Dr. K. Marimuthu has completed a Two Weeks Faculty Development Programme on "MANAGING ONLINE CLASSES and CO-CREATING MOOCS" from April 20 - May 06, 2020, organized by Teaching Learning Centre, Ramanujan College, University of Delhi, New Delhi.

RESEARCH SPECIALIZATION:

- Breeding and seed production of commercially important air-breathing and threatened fish species.
- Larval rearing of air-breathing fishes
- Nutritional requirements of freshwater fishes
- Fish immunology & Immunomodulators in Aquaculture
- Breeding and culture of a leech.
- Toxic effects of pollutants in fishes

COURSES TAUGHT AT AIMST UNIVERSITY:

- **Biology of invertebrates and vertebrates**
- **Aquaculture(Elective)**
- **Biostatistics(Core)**
- **Research Methodology(Core)**
- **Environmental Biotechnology(Core)**

- **Animal Biotechnology(Core)**
- **Human Physiology(Elective)**
- **Genetics**
- **Business Management**

COUNTRIES VISITED

- **China** – Conference participation 9th Asian Fisheries Forum, Shanghai Ocean University
- **Singapore**
- **Taiwan** – Represented AIMST University for Signing MOU with Tzu chi University
- **Malaysia** – Working from the year 2003 and attended several conferences
- **Indonesia** – Delivered an Invited Talk, Syiah Kuala University, Banda Aceh.
- **Sri Lanka** – Visiting Professor and conducted statistics workshop (the University of Ruhuna and UWA Wellasa University, Srilanka)
- **Thailand** – Delivered invited lecture

MEMBERSHIP IN PROFESSIONAL BODIES AND UNIVERSITY COMMITTEES:

- Secretariat for the 7th **Asian Fisheries Forum 2004** held at Penang, Malaysia
- **Senate member**, AIMST University, Malaysia (**March 2016 – July 2018**)
- **Member of Executive Management Committee Team**, AIMST University, Malaysia (**March 2016 – July 2017**)
- **Member** Animal Ethical Committee, AIMST University, Malaysia 15 July 2016 – 14 July 2018.
- **Co-chairman** – University Quotations and Purchase committee 2016 AIMST University 1st September 2016 – 31st August 2017
- **Committee Member - Budget Task Force for the year 2017** – AIMST University
- Member of Board of **Post Graduate Studies**, AIMST University, Malaysia 2016 May onwards
- **MyRa - Internal Auditor for Malaysia Research Assessment Instrument** appointed by Ministry of Higher Education **Malaysia** from 1st November 2018 – 31st October 2022

FOREIGN (Ph.D.) EXTERNAL EXAMINER:

I have been appointed and served as an external examiner for the following universities.

1. Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, INDIA
2. Annamalai University, Chidambaram, Tamilnadu, India
3. Bharathiyar University, Tamilnadu, India
4. Bharathidasan University, Tamilnadu, India
5. Madras University, Chennai, Tamilnadu, India
6. Priest University, Thanjavur, Tamilnadu, India
7. Madurai Kamaraj University, Tamilnadu, India

I have evaluated 30 Ph.D. theses from these universities from 2008 to 2022

LOCAL EXTERNAL EXAMINER:

1. Universiti Putra Malaysia, Selangor, Malaysia

EDITORIAL IN JOURNALS AND LIFE MEMBERSHIP IN SOCIETIES

AWARDS/LIFE MEMBERSHIP:

1. Dr. K. Marimuthu received an Excellent Researcher Award in Biotechnology 2019 from PEARL – A Foundation for Educational Excellence, Madurai, Tamilnadu India on 15 March 2020.
2. Life member - National Academy of Biological Sciences [NABS], India
3. Member of Asian Fisheries Society.

Conference panel member

1. Served as a scientific committee member and panel member at the 6th International Conference on Fisheries and Aquaculture (ICFA2019)—Sustainable Aquaculture: Nutritional Security and Exportsll 22nd – 23rd August 2019 in Bangkok, Thailand.
2. Dr. K. Marimuthu organized a One Day Virtual Conference on “Sustainable Environment” on 5 June 2021 in conjunction with World Environment Day 2021 at the Department of Biotechnology, Faculty of Applied Sciences, AIMST University AIMST University

EDITORIAL MEMBER IN JOURNALS

1. **Editorial Board (2015-2017)**- Indian Journal of Natural Products and Resources (Formerly Known as ***Natural Product Radiance***, Vol. 1-8,2002-2009)
2. **Editorial Board - ACTA ICHTHYOLOGICA ET PISCATORIA (AleP)** - International journal of ichthyology and fisheries. Published under auspices of the Faculty of Food Sciences and Fisheries, the West Pomeranian University of Technology In Szczecin, and the Polish Zoological Society (and its Ichthyology Section) in association with FishBase Published by the Societas Scientiarum Stetinensis (Scientific Society of Szczecin).
3. Editor in Chief, Journal of Aridland Agriculture

SUPERVISION OF UNDERGRADUATE & POSTGRADUATE STUDENTS:

Supervised more than 50 undergraduate students' projects and 4

Master students, - graduate students:

Masters (MSc Biotechnology): Awarded 13:

Ph.D. in Biotechnology: Awarded 2; Currently 1

STUDENT NAMES OF TITLE OF THESIS AND YEAR AWARDED

SN. O	Students name	Title of the project	Degree	Status
1.	Mamunur Rashid	A study of hand grip strength in correlation with age, BMI, hand length, and forearm circumference among three ethnic groups of Malaysian students	MSc Anatomy	Awarded 2019
2	Kaleda Yasmin	Anthropometric study of hand and digits dimension of three ethnic groups of Malaysian students and their correlation with stature	MSc Anatomy	Awarded 2019
3	Aravinda Wundavilli	Morphometric study of lumbosacral spine and its clinical correlation to BMI and low back pain in Malaysian population	MSc Anatomy	Awarded 2019

4	Tan Wei Shan	Effect of different feeds on the growth and survival of silver Arowana (<i>Osteoglossum Bichirrosum</i>) and study of its gut microflora and morphometric characteristics	MSc Biotechnology	Awarded 2019
5	Mr. Sivachandran	Molecular identification, body surface, and gut micro flora of two aquatic leech species in Malaysia	M. Sc	Awarded in 2010
6	Ms. Timalata Kupusamy	Studies on biochemistry and innate immune parameters in the mucus of different freshwater fish species	M. Sc	Awarded in August 2012
7	Mr. Vengkades Reo	Elucidation of antimicrobial properties of epidermal mucus extracts of six freshwater fish species	M. Sc	Awarded in August 2012
8	Mr. Gobinath	Investigation of histopathological and genotoxic effects of pesticides (Buprofezin and Pyrazosufuron-ethyl) on climbing perch (<i>Anabas testudineus</i>) and snakehead fish (<i>Channa striatus</i>)	M. Sc	Awarded 2014
9	Mr. Sivachandran	Identification, breeding, sterilization, genome sequencing, and annotation of Malaysian leech towards identifying novel bioactive compounds and understanding their biology	PhD	Awarded 2014
10	Seyadur Rahman	Assessment of biodiesel, phytochemical composition, pharmacological and industrial applications of two marine macroalgae from Malaysia	PhD	Awarded 2015
11	Yukgehnaish Kumarasan	Metagenomic Analysis Of Gut Microbiota Diversity Of Marble Goby And Pangasius Catfish	MSc	Awarded August 2017
12	Guan Chin Kuan	Development of Gold nanoparticles based genosensors for the detection of <i>Aphanomyces invadens</i>	MSC	Awarded September 2013

13	Maheswaran	Isolation and Molecular Characterization of Native Bacillus thuringiensis isolates in rice ecosystem	MSC	Awarded 2013
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RESEARCH GRANTS:

SN. O	Title of the project	Funding agency	Amount received
1.	Main Investigator: Studies on the classification, biology and establishment of culture techniques for local Malaysian Leech.	MINISTRY OF AGRICULTURE - SCIENCE FUND, Malaysia	RM 150, 000
	Project outcome:	<ul style="list-style-type: none"> Identified two species of aquatic Leech <i>Hirudinaria javanica</i> and <i>Hirudinaria manillensis</i> by external morphological and by using molecular markers derived from nuclear 18S rDNA (18S) and 28S rDNA (28S), mitochondrial 12S rDNA (12S-mito) gene as well as mitochondrial cytochrome c oxidase I (COI) gene. Isolated and characterized gut microflora of two aquatic leech species (<i>Hirudinaria manillensis</i> and <i>Hirudinaria javanica</i>). Studied antibiotic susceptibility of body surface and gut micro flora of two aquatic leech species (<i>Hirudinaria manillensis</i> and <i>Hirudinaria javanica</i>) 	
2.	Co-Investigator: Development of a rapid ultrasensitive gold nanoparticles based genosensor for detecting etiological agent of an epizootic ulcerative syndrome (EUS) in fish.	MOA - SCIENCE FUND, Malaysia	RM 215, 000

3.	EFFECT OF DIFFERENT DIETS ON THE GROWTH AND SURVIVAL OF AN ENDANGERED FISH, AROWANA (<i>SCLEROPAGES FORMOSUS</i>)	AIMST University Grant	RM: 20,000
4.	Co-Investigator: Introducing Innovative Culture Techniques of Snakehead, <i>Channa striatus</i> in Tank. For two Years from 01 /01/ 2015 to31/12/2016	(Knowledge Transfer Programme) –KTP to Universiti Putra Malaysia	RM 180,000
5.	Main Investigator: Metagenomic Analysis of gut Microbiome of Four Malaysian Native Freshwater Fish Species using Next-generation sequencing	Fundamental Research Grant, Ministry of education, Malaysia	RM 96,000
6.	Study on histopathological and molecular mechanistic aspects of low-dose pleiotropic effects of antiplatelet and antihyperlipidemic drugs in aminoglycoside-induced nephrotoxicity in animal model	Fundamental Research Grant, Ministry of education, Malaysia	RM 159,300
7.	Assembly and annotation of Genome and transcriptome of leech	Fundamental Research Grant, Ministry of education, Malaysia	RM RM 72200
8.	Investigations on potential and possible mechanisms of palm oil effluent based beta carotene on epidermal models of vascular dementia	Fundamental Research Grant, Ministry of education, Malaysia	RM 189800
Total grant Amount =			RM: 1082, 300

RESEARCH PUBLICATIONS:

Google Scholar Citations as of April 2022

<u>Citation indices</u>	All
<u>Citations</u>	2619
<u>h-index</u>	32
<u>i10-index</u>	64

As of 18 October 2022

Total no of Publications: 120

- **Publication with impact factor:72**
- **Indexed journals:33**
- **Article in popular magazines and bulletin:10**
- **Books and proceedings Published:2**
- **Chapters in Conference Proceedings: 5**
- **Conference and seminar Presentation:40**

BOOKS PUBLISHED:

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)

Published in BOOKS and Proceedings

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, Ayodhiyapatnam, Salem, Tamil Nadu-636103, India ISBN: [9789388413862]
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 eISBN: 978-983-43522-9-5 (e-Bookversion).
- 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 the 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. ASADUJJAMAN M, RAHMAN MA, MOJUMDAR S, YEASMINE S, HASAN MB, **MARIMUTHU K**. PRESENT STATUS, PROSPECTS AND CONSERVATION OF HILSA, *Tenualosa ilisha* (CLUPEIFORMES: CLUPEIDAE) FISHERY IN BANGLADESH. UTTAR PRADESH JOURNAL OF ZOOLOGY. 2022 Nov 17;43(21):74-83.
2. Ganesh Shanmugasundaram Anusuya, Manoj Balaji Patki, Vanlal Hruaii, Ralte Lalengkimi, Lalfak Zuali, **Kasi Marimuthu**, Lalchandami Tochwawng, John Zothanzama, Nachimuthu Senthil Kumar, Sang Zuala (2022). A study of rural domestic helpers knowledge, attitude, and practice of COVID-19 in Mizoram, India, Asian Journal of Medical Sciences | Dec 2022 | Vol 13 | Issue 12
3. Yukgehnaish, K., Rajandas, H., Parimannan, S., Manickam, R., **Marimuthu, K.**, Petersen, B., & Sicheritz-Pontén, T. (2022). Phage Leads: Rapid Assessment of Phage Therapeutic Suitability Using an Ensemble Machine Learning Approach. *Viruses*, 14(2), 342. **[IMPACT FACTOR: 5.048]**. <https://doi.org/10.3390/v14020342> - ISSN No: 1999-4915
4. Kannan Mohan, Durairaj Karthick Rajan, Thirunavukkarasu Muralisankar, Abirami Ramu Ganesan, **Kasi Marimuthu**, Palanivel Sathishkumar (2022). The potential role of medicinal mushrooms as prebiotics in aquaculture: A review. *Reviews in Aquaculture*. 00:1-33. First published: 19 January 2022; <https://doi.org/10.1111/raq.12651>; **[IMPACT FACTOR: 10.592]**. – ISSN No: 17535131
5. Gao, M., Sun, Y., Wang, Q., Ma, S., Guo, X., Zhou, L., Chen, Y., Marimuthu, K. and Gopinath, S.C., 2022. Nanosensing colon cancer biomarker on zeolite-modified gap-fingered dielectrodes. *Biotechnology and Applied Biochemistry*, 69(5), pp.1885-1892.) **[IMPACT FACTOR: 2.431]**. **ISSN No:** 0885-4513
6. Bi, H., Bian, P., Gopinath, S.C., Marimuthu, K., Lv, G. and Yin, X., 2022. Identifying mineral decrement with bone injury by quantifying osteocalcin on

current-volt sensor. *Biotechnology and applied biochemistry*, 69(5), pp.2061-2068. <https://doi.org/10.1002/bab.2267>) [IMPACT FACTOR: 2.431]. ISSN No : 0885-4513

7. Govindaraju, M.; Sathasivam, K.V.; Marimuthu, K. Waste to Wealth: Value Recovery from Bakery Wastes. *Sustainability* 2021, 13, 2835. <https://doi.org/10.3390/su13052835>) [IMPACT FACTOR: 2.576]. ISSN 2071-1050
8. 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); [IMPACT FACTOR: 0.781]. ISSN NO : 2394-0379
9. Raj S, Muthu; M, Manohar; M, Mohan; P, Ganesh; K, Marimuthu (2020): Potential Binding Efficiency of Antiviral Drug Lopinavir Targeted to the Catalytic Dyad, His41 - Cys145 of SARS CoV-2 Main Protease. *ChemRxiv Preprint*. <https://doi.org/10.26434/chemrxiv.12453644.v1>
10. 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>. 2020 Wiley Publishing Asia Pty Ltd [IMPACT FACTOR: 10.592]. - ISSN No: 1999-4915
11. 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: 3.411] - ISSN: 2314-6133; (Print) ISSN: 2314-6141 (Online)
12. 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, September 2020, 111443. <https://doi.org/10.1016/j.marpolbul.2020.111443> [Impact factor: 5.553]. ISSN: 0025-326X
13. Ramachandran S., Marimuthu K., Ramalingam L. 2020. New record of narrowbar reefgoby, *Priolepis profunda* (Actinopterygii: Perciformes: Gobiidae), from Indian waters. *Acta Ichthyologica Piscatoria* 50 (4): 465–

469. **Impact factor (0.98)**. ISSN NO : 1371592

14. 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*. (ICV-Poland) Impact Value: 5.62 (GIF) IJFAS 2020; 8(4): 304-308 © 2020 IJFAS www.fisheriesjournal.com Received: 09-06-2020 Accepted: 26-07-2020. **Impact Factor: 0.549** E-ISSN: 2347-5129 P-ISSN: 2394-0506
15. Sridevi Ugrappa, Hemaanya A/P Pragas, Heng Wen Jun , 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. Print ISSN: 0976-0245, Online ISSN: 0976-5506.
16. A Jain, RM Nasir, LW Chee, LH Xin, LZ Yeih, S Ugrappa, K Marimuthu (2020). To Evaluate and Compare the Effect of Commercially Available Model Hardening Agent on Surface Hardness and Surface Roughness of Refractory Investment Materials: An In-Vitro Study. *Indian Journal of Public Health* 11 (8), 11; ISSN **2229-7693**
17. Yohanathan Bavani, Kasi Marimuthu, **Rajavel Varatharajan**, Subramani Parasuraman, Arunachalam Muthuraman. (2019). Investigate the Effect of Fluvastatin and Pravastatin on Gentamicin-induced Acute Kidney Injury in Sprague Dawley Rats. *EC Pharmacology and Toxicology* 7.12 (2019): 64-71. ISSN: 101699542
18. 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**, *Int. J. Mol. Sci.* **2019**, 20(3), 568; <https://doi.org/10.3390/ijms20030568>.(Impactfactor:3.687) ISSN NO: 14220067.
19. K Marimuthu (2019). A short review on induced spawning and seed production of African Catfish *Clarias gariepinus* in Malaysia, IOP Conference Series: Earth and Environmental Science 348 (1), ISSN No 17551315
20. KV SATHASIVAM, NK FULORIA, S FULORIA, PJ DARSHENEE, R XAVIER, K MARIMUTHU, KM SUNDRAM (2019). Kinetic, Equilibrium and Thermodynamic Studies on Removal of Cu(II) and Pb(II) by Activated Carbon Prepared from Macro-Algae (*Kappaphycus alvarezii*), *Asian Journal of Chemistry* 31 (6), 1343-1348 - ISSN: 0975-427X (Online); ISSN: 0970-7077 (Print)
21. Mohammed Baqur S Al-Shuhaib, Fadhil R Al-Kafajy, Milad Ali Badi, Sayed AbdulAzeez, **Kasi Marimuthu**, Hussein Ali Imran Al-Juhaishi, J

FrancisBorgio. 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: 4.589**) **ISSN NO:** 104825

22. 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* volume 25, 93–105(2019) **ISSN NO:** 15733149 (**Impact factor:** 1.931).
23. Sundaram Sornambikai, Lim Qing Hin, **KasiMarimuthu**and MohammedRafiq AbdulKadir. 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 3.36**). **ISSN NO** 20462069
24. Kuppusamy TIMALATA, **Kasi MARIMUTHU**, Rao VENKKADES RAO, Rathinam XAVIER, M. Aminur RAHMAN, Subramaniam SREERAMANAN, Mariadhas Valan ARASU, Naif Abdullah AL-DHABI, and Jesu AROCKIARAJ. 2015. ELUCIDATION OF INNATE IMMUNE COMPONENTS IN THE EPIDERMAL MUCUS OF DIFFERENT FRESHWATER FISH SPECIES. *ACTA ICHTHYOLOGICA ET PISCATORIA*. 45 (3): 221-230. (**Impact factor 0.97**). **ISSN NO:** 1371592
25. Venkatesh Kumaresan, Prasanth Bhatt, Munuswamy-Ramanujam Ganesh, Ramasamy Harikrishnan, MariadhasValan Arasu, Naif Abdullah Al-Dhabi, Mukesh Pasupuleti, **Kasi Marimuthu**, Jesu Arockiaraj. 2015. A novel antimicrobial peptide derived from fish goose type lysozyme disrupts the membrane of *Salmonella enterica*. **Molecular Immunology** Volume 68, Issue 2, Part B, December 2015, 421-433, DOI:10.1016/j.molimm.2015.10.001 (**Impact Factor: 4.407**). **ISSN NO:** 1615890
26. **KASI MARIMUTHU**, PRIYA GUNASELVAM, , AMINUR RAHMAN, RATHINAM XAVIER, JESU AROCKIARAJ, SREERAMANAN SUBRAMANIAN, FATIMAH MD. YUSOFF, AZIZ ARSHAD. 2015. **Antibacterial activity of ovary extract from sea urchin *Diadema setosum***. *European Review for Medical and Pharmacological Sciences* 19: 1895-1899 (**Impact factor 3.507**). **ISSN 2284-0729**
27. Jesu Arockiaraj, Mukesh Kumar Chaurasia, Venkatesh Kumaresan, Rajesh Palanisamy,Ramasamy Harikrishnan, Mukesh Pasupuleti, **Marimuthu Kasi**. 2015. Macrobrachium rosenbergii mannose binding lectin: Synthesis of **MrMBL-** 14

N20 and MrMBL-C16 peptides and their antimicrobial characterization, bioinformatics and relative gene expression analysis. **Fish and Shellfish Immunology**. 43 (2015) 364-374; (**Impact Factor**: 4.581). **ISSN NO**: 10504648.

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104. **Marimuthu K.**, M. Muruganandam, A. Jesu Arockiaraj, M.A. Haniffa and T. Arulmozhi varma (1999). Growth and survival of snakehead fry *Channa striatus* reared in cement tanks treated with organic versus inorganic fertilizers. **Journal of Inland Fisheries Society**, 31(2)75-78
105. Muruganandam, M., A. Jesu Arockia Raj **K. Marimuthu** and M.A. Haniffa (1999). Dietary effects of Phenylalanine on the growth and survival of *Channa striatus* fry. **Flora and fauna**. 5 (1): 34. ISSN 0971-6920.
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1. **K. Marimuthu**, T W. Shan, J. Arockiaraj, S. Kurunathan, R. Xavier and M A Rahman 2014. **Breeding and culture of Asian arowana in Malaysia**. **INFOFISH International**, 6/2014; 24-28.
2. **Marimuthu, K.**, S. Nirmell and R. Xavier. 2012. Breeding and seed production of African catfish, (*Clarias gariepinus*). **INFOFISH International** 4/2012;28-32.
3. **Marimuthu. K.** (2006). Induced breeding - a boon for fish seed production. **INFO FISH International**. 6/2006:16-20.
4. **Marimuthu. K** (2005). Breeding snakehead in Malaysia. **Fish Mail**. 14 (3): pp; 22.
5. **Marimuthu. K**, and Haniffa, M.A. 2004. Seed production and culture of snakehead. **INFOFISH International** 2/2004:16-18.
6. Jesu Arockia Raj, A., M. A. Haniffa, P. Raja Raja Perumalsamy, and M. Muruganandam, **K. Marimuthu** 2003. An effective treatment to EUS infected spotted murrel (*Channa punctatus*), using streptomycin. **Fishing chimes**. 23 (2) 26-27.
7. Haniffa M. A., **K. Marimuthu** and M. Muruganandam (2002). Mass breeding of the striped murrel *Channa striatus*. **Fishing chimes**, Vol.21 No. 10 &11:53-54.
8. **Marimuthu K.**, M.A. Haniffa, M. Muruganandam, and A. Jesu Arockiaraj (2001). Low cost murrel seed production technique for fish farmers. **NAGA. (ICLARM)** Vol. 25 (1& 2)21-22.

9. **Marimuthu K.**, M. Muruganandam, A.Jesu Arockiaraj and M.A. Haniffa (2000). Induced spawning of the Indian catfish *Heteropneustus fossilis* (Singhi) using a synthetic hormone Ovotide. **Fishing chimes** Vol. 19 No. 10 & 11:105-106.
10. **Marimuthu K.** M. Muruganandam and M.A., Haniffa (1999). Rearing of larvae is an essential pre requisite for murrel culture. **Fishing chimes**. Vol. 18. No: 12. 31-32.

GENE BANK SEQUENCES

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2. Sarah,J., Sivachandran,P., Lalitha,P., Ravichandran,M., Kathiresan,S., Lim,K.K., Sharmila,A., Yong,K.C., Bhore,S.J., Nanthini,R., Ravichandran,M. and **Kasi, M.** *Exiguobacterium indicum* strain AIMST F2 16S ribosomal RNA gene, partial sequence. Accession Number:GQ385071
3. Sarah,J., Sivachandran,P., Lalitha,P., Ravichandran,M., Kathiresan,S., Lim,K.K., Sharmila,A., Yong,K.C., Bhore,S.J., Nanthini,R., Ravichandran,M. and **Kasi, M.** *Bacillus* sp. AIMST L1 16S ribosomal RNA gene, partial sequence. Accession Number:GQ385070
4. Sarah,J., Sivachandran,P., Lalitha,P., Ravichandran,M., Kathiresan,S., Lim,K.K., Sharmila,A., Yong,K.C., Bhore,S.J., Nanthini,R., Ravichandran,M. and **Kasi, M.** *Chryseobacterium indologenes* strain AIMST AS007 16S ribosomal RNA gene, partial sequence. Accession Number:GQ385069
5. Sarah,J., Sivachandran,P., Lalitha,P., Ravichandran,M., Kathiresan,S., Lim,K.K., Sharmila,A., Yong,K.C., Bhore,S.J., Nanthini,R., Ravichandran, M. and **Kasi, M.** *Chryseobacterium joostei* strain AIMST AS002 16S ribosomal RNA gene, partial sequence. Accession Number:GQ385068
6. Sarah,J., Sivachandran,P., Lalitha,P., Ravichandran,M., Kathiresan,S., Lim,K.K., Sharmila,A., Yong,K.C., Bhore,S.J., Nanthini,R., Ravichandran,M. and **Kasi, M.** *Bacillus circulans* strain AIMST S1 16S ribosomal RNA gene, partial sequence. Accession Number:GQ385067

PUBLICATIONS IN SEMINAR & CONFERENCE PROCEEDINGS:

1. **Marimuthu. K.**, M. Muruganandam and M.A. Haniffa (1998). Mass rearing of larvae is an essential pre- requisite for murrel culture. "Workshop on Germplasm inventory and gene banking of freshwater fishes" held during 12-13, October 1998. Organized by the National

Bureau of Fish Genetic Resources, Lucknow, at Central Marine Fisheries Research Institute, Cochin, Kerala

2. Haniffa, M.A., **K. Marimuthu**, S. Sridhar. (2000). Induced breeding in threatened, vulnerable, and endangered fish species. "*First National Conference on Fisheries Biotechnology*" held during 4 - 5, March 2000 at Central Institute of Fisheries Education, Mumbai.
3. Haniffa, M.A., **K. Marimuthu**, T. Merlin Rose, J. Shaik Mohamed. (2000). Induced spawning of the snake head murrel *Channa striatus* using Pituitary extracts, Human Chorionic Gonadotropin, Luteinising hormone releasing hormone analogue and Ovaprim. "*National seminar and exhibition on sustainable fisheries and aquaculture for nutritional security*" at Chennai on Nov 29 – 2 nd Dec.2000.
4. Haniffa, M. A., **K. Marimuthu.**, A. Selva Rani. (2000). Effect of quality diets on survival and growth of the snakehead murrel *Channa striatus*. "*National seminar and exhibition on sustainable fisheries and aquaculture for nutritional security*" at Chennai on Nov 29 – 2 nd Dec.2000.
5. Sethu Ramalingam, T. A., M. A. Haniffa, and **K. Marimuthu**. Evaluation of animal and plant protein ingredients as feed stuff for rohu fry (*Labeo rohita*) through digestibility study. "*National seminar and exhibition on sustainable fisheries and aquaculture for nutritional security*" at Chennai on Nov 29 – 2 nd Dec.2000.
6. M. A. Haniffa and **K. Marimuthu**. Induced spawning of spotted murrel *Channa punctatus* using natural and synthetic hormones. *World Aquaculture 2003* 19-23 May 2003, Bahia Center, Salvador, Brazil.
7. M. A. Haniffa and **K. Marimuthu**. Effect of diet quality on reproductive performance of spotted murrel *Channa punctatus*. *World Aquaculture 2003* 19-23 May 2003, Bahia Center, Salvador, Brazil.
8. Haniffa, M. A., M. Nagarajan, **K. Marimuthu** and P. Peumalsamy 2003. Deformities in murels and catfishes. International conference on disease management for sustainable fisheries. Dept of Aquatic biology and Fisheries, University of Kerala, Trivandrum. 25-08-2003 to 28-08-2003
9. **Marimuthu, K** and M. A. Haniffa. 2004. Induced spawning and larval development of the striped snakehead *Channa striatus*. In *2nd Life sciences Post graduate Conference, Life sciences: The power to Explore, Discover and Simulate*, 1st – 3rd April 2004, University Sains Malaysia, Penang, Malaysia.
10. **Marimuthu, K** and M. A. Haniffa. 2004. Larval rearing of the spotted snakehead *Channa punctatus*. In *2nd Life sciences Post graduate Conference, Life sciences: The power to Explore, Discover and Simulate*, 1st – 3rd April 2004, University Sains Malaysia, Penang, Malaysia.

11. **Marimuthu, K.**, M. A. Haniffa and Roshada Hashim. 2004. Seasonal ovarian changes in the spotted snakehead *Channa punctatus* under captivity. 7th Asian Fisheries forum 2004, 30 November- 4 December 2004, Penang, Malaysia.
12. Amalia Sutriana, Roshada Hashim and **Marimuthu, K.** 2004. Effects of dietary cassava leaf and root meal on growth performance and body composition of African catfish *Clarias gariepinus*. 7th Asian Fisheries forum 2004, 30 November- 4 December 2004, Penang, Malaysia.
13. **Marimuthu, K.** and M. A. Haniffa, 2007. Captive breeding of striped Snakehead *Channa striatus* using a new ovulating agent Ovatide for aquaculture. Asia pacific conference on plant tissue and Agribiotechnology. June 17 – 21, 2007.
14. 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. International Conference on Environmental Research and Technology. School of Biological sciences, University Science Malaysia, Penang, Malaysia
15. Sudhakaran S., Sakthi Easwari K., Ng Jay se, Tan Peow Taik, Juliana Bt Abu Bakar K., Logeswari S., Chan Coo Sean., Ong Ming Thong, Dhanaraj S., **Marimuthu K.**, Xavier, R. 2008. Bioprospecting of Medicinal plants: Mangosteen, The queen of Fruits. National conference on new frontiers and current trends in Biotechnology and Platinum Jubilee celebrations of Department of Biochemistry. Madras University Chennai, 18- 19 October 2008.
16. Jasminder Kaur, G., Khoo Miew Leng, **Marimuthu, K.**, Sreeramanan, S and Xavier, R. 2010. Antimicrobial Activity of Mango (*Mangifera Indica* L.) Seed Kernel. 21st inter university Biochemistry seminar held on 27th March 2010 at UCSI University Kuala Lumpur.
17. Samsudeen, M.H, Shathanapriya, K, Diwarkar, A, Arulmoli, R., **Marimuthu, K.**, Sethuraman K., Chandra Lekha., Sreeramanan, S. Ganeshan, S and Xavier, R. 2010. Antidiabetic effect of native lotus (*Nelumb nucifera* Gaertn) flower and seeds on Streptozotocin induced diabetic rats. 21st inter university Biochemistry seminar held on 27th March 2010 at UCSI University Kuala Lumpur.
18. Sivachandran Parimannan, **Kasi Marimuthu,** Ravichandran Manickam. 2010. Molecular characterization of local aquatic leech in Malaysia. In BIO MALAYSIA 2010 was held on 1- 3 November 2010.
19. Kannan, P., Xavier, R., Reena Josephine, C.M., **Marimuthu, K.**, Kathiresan, S., Sreeramanan, S., Prazanna Lakshmy, A., Maheswaran, S. And Vinod, V. 2010. The Occurrence Of *Bacillus Thuringiensis* Strains In

Chemical Intensive Rice Growing Ecosystem. Proceedings of the National Postgraduate Seminar (NPS 2010), 30th December, Universiti KebangsaanMalaysia.

20. Lakmxy, A., Xavier, R., Reena Josephine, C.M., Lee, Y.W.1, **Marimuthu, K.**, Kathiresan, S., Sreeramanan, S., Kannan, P., Vinod, V. and Maheswaran, S. 2010. Mosquitocidal Activity Of A Native *Bacillus Thuringiensis* Isolate Bt Rex02 From Gunung Jerai Forest, Malaysia Against *Culex Quinquefasciatus* And *Aedes Albopictus* Prazanna Proceedings of The National Postgraduate Seminar (NPS 2010), 30th December, Universiti KebangsaanMalaysia.
21. **K. Marimuthu**, Nirmell Satthiyasilan, R. Xavier and M. A. Haniffa. 2011. INDUCED OVULATION OF THE AFRICAN CATFISH *Clarias gariepinus* (Bloch) WITH OVAPRIM. **ASIAN PACIFIC AQUACULTURE 2011** January 17-20, 2011 Le Meridien Resort and Convention Center, Kochi,India.
22. Sivachandran Parimannan, **Kasi Marimuthu**, Ravichandran Manickam (2011). ANTIBIOTIC SUSCEPTIBILITY OF BODY SURFACE AND GUT MICRO FLORA OF TWO AQUATIC LEECH SPECIES (*Hirudinaria manillensis* and *Hirudinaria javanica*) IN MALAYSIA. In 9th Asian Fisheries & Aquaculture Forum (9AFAF) was held on 20 – 25 April 2011 in Shanghai Ocean University, Shanghai,China.
23. ONG YEONG WEI, R. XAVIER and **K. MARIMUTHU**. (2011) Screening of antibacterial activity of mucus extracts of Snakehead fish, *Channa striatus* (Bloch). In 9th Asian Fisheries & Aquaculture Forum (9AFAF) was held on 20 – 25 April 2011 in Shanghai Ocean University, Shanghai,China.
24. Pramila Devi, R Xavier, **K Marimuthu**, Kathiresan Sathasivam, ML Khoo, Senthil Kumar, Sathya Kannan, S. Sreeramanan. Antimicrobial potential of methanolic extract of peppermint against human oral microflora. 22nd Intersivity Biochemistry Seminar, Universiti Kebangsaan Malaysia, 19th March2011.
25. **Marimuthu, K** and M. A. Haniffa (2011). INDUCED SPAWNING OF NATIVE THREATENED SPOTTED SNAKEHEAD FISH *CHANNA PUNCTATUS* WITH OVAPRIM. In 9th International Symposium on Reproductive Physiology of Fish was held in Kochi, India, 9-14 August,2011.
26. Angela teoh, C.L., S. Kathiresan, R. Xavier, **K Marimuthu** 2012. Production and characterization of esterified coffee dust/PVA biocomposite adsorbent for romoving dyes from aqueus media. 23rd Intersivity Biochemistry Seminar. University Malaya, 19th May2012.
27. Chiang Xin Yen, S. Sreeramanan, **K. Marimuthu** and. R. Xavier. 2012.

- Agrobacterium mediated transformation of *Aranda broga* blue bell orchid. 23rd Intersarsity Biochemistry Seminar. University Malaya, 19th May2012.
28. Fam May Chee, S. Sreeramanan, **K. Marimuthu** and. R. Xavier. 2012. Induction of 9 methoxycanthin -6- one using in vitro roots of *Eurycoma longifolia* (Tonkat ali). . 23rd Intersarsity Biochemistry Seminar. University Malaya, 19th May 2012.
 29. **Kasi Marimuthu**, Timalata Kupusamy, Vengkades Rao, Xavier Rathinam, Jesu Arockiaraj, Sreeramanan Subramaniam. 2012. STUDIES ON THE NON-SPECIFIC INNATE IMMUNE COMPONENTS IN THE SKIN MUCUS OF DIFFERENT FRESHWATER FISH SPECIES. Presented in -2ndNationalconferenceon Fisheries Biotechnologyll organized by Central Institute of Fisheries Education (CIFE, ICAR), Mumbai, India from 2- 3 November 2012.
 30. Jesu Arockiaraj, Prasanth Bhatt, Muthupandian Saravananan and **Kasi Marimuthu**. (2012).CATHEPSIN-B FROM STRIPED MURREL, *CHANNA STRIATUS*: MOLECULAR CHARACTERIZATION, GENE EXPRESSION AND IMMUNE PROPERTIES. Presented in —2nd National Conference on Fisheries Biotechnologyll organized by Central Institute of Fisheries Education (CIFE, ICAR), Mumbai, India from 2- 3 November 2012.
 31. Jesu Arockiaraj, Prasanth Bhatt, Muthupandian Saravananan and **Kasi Marimuthu**. (2012). MOLECULAR CLONING, CHARACTERIZATION, GENE EXPRESSION AND ENZYME ACTIVITY OF PROPHELOXIDASE FROM FRESHWATER PRAWN *MACROBRACHIUM ROSENBERGII*. Presented in —2nd National conference on Fisheries Biotechnologyll organized by Central Institute of Fisheries Education (CIFE, ICAR), Mumbai, India from 2- 3 November2012.
 32. Sathyanarayana N., Sunitha P.Suresh V.C. Sreeramanan S., Marimuthu K. and Xavier R (2016) *In vitro* Anti-oxidant Assay, HPLC Profiling of Polyphenolic Compounds, AAS and FTIR Spectrum of Malaysian *Solanum torvum* Swartz fruit. Research Highlights in 4Bs *Biosensors, Biodiagnostics, Biochips and Biotechnology. Res. Highl. 4Bs(2016)*
 33. Tan W.S, Sivachandran P., Kurunathan S., Marimuthu K.(2016) Effect of Different Diets on the Growth and Survival of Silver Arowana (*Osteoglossum bichirrosom*). Research Highlights in 4Bs *Biosensors, Biodiagnostics, Biochips and Biotechnology. Res. Highl. 4Bs(2016)*.
 34. Gobinath R., Marimuthu K., Xavier R., Suresh C.V.(2016). Biochemical Changes in African catfish, *Clarias gariepinus* Exposed to Buprofezin. Research Highlights in 4Bs *Biosensors, Biodiagnostics, Biochips and Biotechnology. Res. Highl. 4Bs (2016)*.
 35. Haematological Changes in African catfish, *Clarias gariepinus* exposed

to Buprofezin Gobinath R., Marimuthu K., Xavier R., Suresh C.V. Research Highlights in 4Bs *Biosensors, Biodiagnostics, Biochips and Biotechnology. Res. Highl. 4Bs (2016).*

36. Y. Bavani, R.Varatharajan, S. Parasuraman, K. Marimuthu. (2018). Investigating the Pleiotropic Effect of Statins on Aminoglycoside induced Nephrotoxicity in Sprague Dawley Rats. AIMST UNIVERSITY BIOTECHNOLOGY STUDENTS COLLOQUIUM - 2018 (AUBSC - 2018) held on 8th June 2018.
37. Deepiga Loganathamoorthy, Sivachandran Parimannan, **K. Marimuthu**. (2018). Isolation and Characterization of Acid soluble collagen from skin of snakehead fish, *Channa striatus*. AIMST UNIVERSITY BIOTECHNOLOGY STUDENTS COLLOQUIUM - 2018 (AUBSC - 2018) held on 8th June 2018.
38. Valerie Stephen, Lee Su Yin, Sivachandran Parimannan¹, Akula Umasankar, **K. Marimuthu**. (2018). Fish Consumption Behaviour, Knowledge and Attitude among University Students. AIMST UNIVERSITY BIOTECHNOLOGY STUDENTS COLLOQUIUM - 2018 (AUBSC - 2018) was held on 8th June 2018.
39. Tinusha Paramanathan, Heera Rajandas, **Kasi Marimuthu**, Sivachandran Parimannan (2018). A Rapid Method for Detection of Microplastics in Aquatic systems. AIMST UNIVERSITY BIOTECHNOLOGY STUDENTS COLLOQUIUM - 2018 (AUBSC - 2018) held on 8th June 2018.

PARTICIPATION IN CONFERENCES/ SEMINAR/ WORKSHOP/ TRAININGPROGRAMME:

1. National seminar on sustainable Environment held at Sri Paramaklyani Centre for Environmental Sciences, Manonmaniam Sundaranar University, Alwakurichi on 4-6th November 1997.
2. National conference on Aquaculture held from 18 – 20 Dec. 1996 at St. Xavier's college, Palyankottai.
3. Workshop on Germplasm inventory and gene banking of freshwater fishes held at Central Marine Fisheries Research Institute, Cochin on December 1998.
4. National Conference on Fisheries Biotechnology held at Central Institute of Fisheries Education, Mumbai, on 4-5th March 2000.
5. National seminar on sustainable fisheries and aquaculture for nutritional security held at Chennai 29th Nov. 2nd December 2000.
6. Training on Broodstock development in *Machrobrachium rosenbergii* was conducted by Fisheries College & Research Institute. Tuticorin

18-20th Sept.2000.

7. National workshop on Aquaculture Medicine held during 18-20 January 2001, at Cochin.
8. International conference on Advanced Technologies in Fisheries and Marine Sciences 2 – 4 February 2001 held at Noorul Islam College of Engineering, Thuckalay, Kanyakumari district, South India.
9. Training on Hatchery management and culture of freshwater Prawn *Machrobrachium malcolmsonii* at Central Institute of Freshwater Aquaculture, Kausalya ganga, Bhubaneswar, Orissa, on 21 –28, August,2001.
10. 2nd Life sciences Post graduate Conference, Life sciences: The power to Explore, Discover and Simulate, 1st – 3rd April 2004, University Sains Malaysia, Penang, Malaysia.
11. 7th Asian Fisheries Forum 2004, the Triennial meeting of the Asian Fisheries Society, 30 November- 4 December 2004, Penang, Malaysia.
12. ECOSTM 1- minute Transformation technology, 1-2 November 2006, INFORMM, University Science Malaysia, Penang, Malaysia.
13. Seminar on the High Quality Seed Production in Aquaculture, 20-22 November 2006, held at KUSTEM, Kuala Terengganu, Malaysia.
14. Asia pacific conference on plant tissue and agribiotechnology. June 17 – 21, 2007. PWTC, Kuala Lumpur.
15. National conference on new frontiers and current trends in Biotechnology and Platinum Jubilee celebrations of Department of Biochemistry. 18- 19 October 2008.
16. Theoretical workshop on Phylogenetics course by Dr Geoffrey Chambers, Reader in Cell and Molecular Biosciences, Victoria University of Wellington, New Zealand Organized by School of Biological Sciences, University Science Malaysia, Penang, Malaysia from November 24 to 28 2008.
17. Participated in Seminar on current trends in biotech industry, held on 23rd November 2009 at AIMST University.
18. Participated in Innovative Approaches for label free Nanobiosensor development seminar 2010, held on 29th – 30th April 2020 at AIMST University.
19. Participated in workshop entitled Bioinformatics Applications in Medicine held on 13 May 2010 at AIMST University.
20. Participated in 21st inter university Biochemistry seminar held on 27th

March 2010 at UCSI University Kuala Lumpur.

21. Participated in 22nd Intersarsity Biochemistry Seminar, Universiti Kebangsaan Malaysia, 9th March 2011.
22. Participated in ASIAN PACIFIC AQUACULTURE 2011, January 17-20, 2011 Le Meridien Resort and Convention Center, Kochi, India.
23. Participated in the 9th Asian Fisheries & Aquaculture Forum (9AFAF) was held on 20 – 25 April 2011 in **Shanghai Ocean University, Shanghai, China.**
24. Participated in the 9th International Symposium on Reproductive Physiology of Fish was held in Kochi, India, 9-14 August 2011.
25. Participated in —Multiple Linear Regression, Logistic Regression & Survival Analysis and organized by the Department of Biostatistics, Christian Medical College, Vellore, Tamilnadu, India from 30th May to 3rd June 2011.
26. Participated in “**SAS (Statistical Analysis System) software training**” organized by the Department of Biostatistics, Christian Medical College, Vellore, Tamilnadu, India from 6th June to 10th June 2011.
27. Participated in “**2nd National conference on Fisheries Biotechnology**” organized by the Central Institute of Fisheries Education (CIFE, ICAR), Mumbai, India from 2- 3 November 2012.
28. Participated in — Workshop on 16S rDNA Bacterial Molecular Identification organized by IAB Halal Research Lab, Institute of Bio-IT, UNISEL, Shah Alam, Malaysia from 2nd - 3rd July 2013.
29. Participated in a “**Short course** on Fundamentals of Biostatistics, Principles of Epidemiology & SPSS ” organized by the Department of Biostatistics, Christian Medical College, Vellore, Tamilnadu, India from August 19 to 23, 2013.
30. **Dr. K. Marimuthu** participated in a workshop on —Good Clinical Practice organized by Postgraduate Medical Society, Hospital Sultana Bahiya and conducted by Clinical Research Centre, KLI was held in The Leverage Business Hotel, Taman Bandar Baru Mergong, Alorseter, Kedah Darul Aman from 13- 15 April 2014.
31. Participated in a seminar on “**Biosafety**” organized by AIMST University jointly with the Department of Biosafety, Ministry of Natural Resources and Environment, Malaysia on 23 September 2014.
32. **Dr. K. Marimuthu** participated DIA – FEST 2014 International Seminar on Diet and Diabetes and Delivered a Invited Talk on “**Fish Consumption and Risks of Diabetes Mellitus**” on 17 October 2014

was jointly organized by Govt. Siddha Medical College & Department of Food Science, Sarah Tucker College, Palayamkottai, Tirunelveli, Tamilnadu,India.

33. **Dr. K. Marimuthu**, visited the Department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India on 21 October 2014 and delivered a talk on **“Scientific ManuscriptWriting”**.
34. Participated in a seminar on **“Nanoparticle Sizing, Zeta Potential Analysis and Rheometry”** ” organized by Faculty of Pharmacy, AIMST University on 4 March2015.
35. Participated a workshop on **“Open Educational resources and Massive Open Online Courses”** organized by the AIMST MOOC Development Committee held on March 17, 2015.
36. Participated in a workshop on **“Molecular Docking using AutoDock”** organized by Faculty of Pharmacy, AIMST University on 24 April 2015.
37. Participated in a workshop on **“Computer Aided Drug Design”** organized by INFORMM & school of Pharmaceutical sciences USM on 8 – 10 December 2015.
38. Participated in a training programmer on **“Genetics and Biotechnology; Tools and their Application in Aquaculture”** organized by Central Institute of Brackish water Aquaculture (CIBA - ICAR), Tamilnadu, India January 2016
39. Delivered a talk on **“Seven habits of highly effective students”**, Leadership training program, MDT Hindu College, Tirunelveli, Tamilnadu, India on 12 January 2016.
40. Participated in a Workshop on Guide to Good Practices: Curriculum Design & Delivery on 22, May 2018, organized by Malaysian Qualification Agency at AIMST UniversityMalaysia.
41. Participated in a Workshop on Guidelines to Good Practices: Monitoring, Reviewing and Continually Improving Institutional Quality on 23, May 2018, organized by the Malaysian Qualification Agency at AIMST UniversityMalaysia.
42. Participated in a -Workshop on AdvisoryCliniconPreparationof Programme Accreditation -Document MQA-01 & MQA -02II on 24 May 2018, organized by Malaysian Qualification Agency at AIMST UniversityMalaysia.
43. Participated in a workshop on COPPA 2.0 and Evaluation Instruments, on 9th July 2018, organized by the Malaysian Qualification Agency at AIMST University Malaysia.

44. Participated in a **Workshop on Learning Outcomes (Module 1)**, 10 - 11 July 2018, organized by the Malaysian Qualification Agency at AIMST University Malaysia.
45. Participated in a **Workshop on Learning Outcomes (Module 2)**, 12 July 2018, organized by the Malaysian Qualification Agency at AIMST University Malaysia.
46. Participated in "**Getting started with R statistics workshop**" 14, October 2018, organized by University Technology Malaysia, Malaysia.
47. Participated in "**Introduction to R software for statistical analysis**" 27-28, October 2018, organized by Bharathiyar University, Coimbatore, India
48. Attended a workshop on fish cell culture techniques, organized by C. Abdul Hakeem College, Melvisharam - 632 509, Vellore Dist., Tamil Nadu, India from 9th to 14th December 2019.

DELIVERED INVITED TALK AND LECTURES

1. **Marimuthu. K.**, Umah Ramachandram, and S. Muralikrishnan (2008). **Invited Lecture.** Effect of Different Feed Application Rate on Growth, Biochemical body composition, Survival, and Cannibalism of African Catfish *Clarias gariepinus* Fingerlings. National conference on new frontiers and current trends in Biotechnology and Platinum Jubilee celebrations of Department of Biochemistry. Madras University Chennai, 18- 19 October 2008.
2. Delivered a guest lecture on "**Prospects of Aquaculture**" and "**Biotechnological careers in Malaysia**". Sadakathullah Appa College, Tirunelveli, Tamilnadu, India on 11th September 2013.
3. **Dr. K. Marimuthu** delivered an invited lecture on "**Basic statistics for researchers and Scientific writing**" Department of Zoology Sadakathullah Appa College, Palayamkottai, Tirunelveli, Tamil Nadu, India in 4th September 2014.
4. **Dr. K. Marimuthu** delivered an invited lecture on "**Fish consumption and risks of diabetes**" **International seminar on Diet and Diabetes. Organized by Siddha medical college**, Palayamkottai, Tirunelveli, Tamil Nadu, India on 17 November 2014.
5. Delivered a talk on "**Careers in Biological Sciences**", at Zoology Association meeting, MDT Hindu College, Tirunelveli, Tamilnadu, India on 12 January 2016.

6. Participated in “**Statistical application using STATA**” organized by the Department of Biostatistics, Christian Medical College, Vellore, Tamilnadu, India from 27 - 30 June 2016.
7. Delivered invited lecture on "African catfish and snakehead fish breeding and seed production" on 6th January 2017 at V.H.N.S.N.College (Autonomous), Virudhunagar, Tamilnadu
8. Delivered a talk on “**Careers in Undergraduate Students**”, Popes College, Sawyer Puram, Tuticorin, Tamilnadu, India on 12 January 2017.
9. Delivered an invited keynote address on -Prospects of fish breeding and seed production of snakehead fish *Channa striatus* at National Seminar on Recent innovations in Biosciences (NS RIB'16) on 5th January 2018 at hosted by Dr. R.V. Arts and Science College, Karamadai, Coimbatore, Tamilnadu, India.
10. Delivered an invited key note address on **Application of Genomics in toxicology: Toxicogenomics** at the INTERNATIONAL CONFERENCE ON GENOMICS (ICG- 2018), hosted by the Department of Zoology, Holycross College, Nagercoil, Tamilnadu, India on 6th January 2018.
11. Delivered a plenary lecture on **Prospects of Immunomodulators in Aquaculture** at Zoology Congress 2018, organized by Dept. of Zoology, St. Xavier's College, Palayamkottai-627002, Tamil Nadu, India on 10 – 12 January 2018.
12. Delivered a keynote lecture on the **Role of immunostimulants in Aquaculture** at the seminar on —Aquaculture - Current and Future Prospects", organized by **P.G. Department of Zoology and Research Centre**, Department of Zoology, Sri Parasakthi College for Women, Courtallam, TamilNadu, India on 24 January 2018.
13. Delivered invited lecture on careers in Biological sciences in UG and PG Zoology students seminar, organized by Sadakathullah Appa College, Tirunelveli, Tamilnadu, India on **5th July 2018**.
14. Delivered a plenary talk on **Application immunostimulants in Aquaculture** at the 5th International Conference on Fisheries and Aquaculture (ICFA 2018), SriLanka on 23 and 24 August 2018.
15. Delivered an invited talk on “**Application of Biotechnology in Aquaculture and Fisheries**” at the International conference in Heticon, 2018, organized by Dr. MGR, Educational and Research Institute, Chennai, India on 30 & 31 October 2018.

16. Delivered an invited talk on **“Breeding and Seed Production of Air-Breathing Fish Species, Snakehead (*Channa striatus*) and African catfish (*Clarias gariepinus*)”** at the conference on Innovative Research in Biological Sciences 2019 (ICIRBS 2019) organized by Research Department of Zoology and the management team of Pasumpon Muthuramalinga Thevar College, Melaneelithanallur, Sankarankovil, Tirunelveli, Tamilnadu on 9th January 2019.
17. Delivered an invited talk on Careers in Biological Sciences in UG and PG Zoology students seminar at St. Xavier's College, Palayamkottai, Tamilnadu on 11th February 2019.
18. Delivered an invited talk on Values of aquatic Biodiversity and its conservation at VT University, Vellore, Tamilnadu on 6th November 2019
19. Delivered an invited talk on **“Prospects of Biotechnology Application in Aquaculture and Fisheries”** at a seminar on wonderful oceans: emerging trends and implications, organized by St Mary's College Tuticorin, Tamilnadu, India on 12 February 2019.
20. Delivered an invited talk on **Induced spawning and Seed production of Snakehead fishes, (*Channa striatus*, *Channa punctatus*) and African catfish (*Clarias gariepinus*)** at the 2nd ICFAES in conjunction with The 6th Annual Conference of The Asian Society of Ichthyologists 2019 (ASI-ICFAES 2019), on 19-20 June 2019, Organized by Faculty of Marine and Fisheries, Syiah Kuala University, Banda Aceh, Indonesia
21. Delivered an invited talk on **Fish Consumption and Human Health** at Health and Natural Products in Indian System of Medicine, Natura'19 on 21, July 2019, Organized by Central Inter-Disciplinary Research Facility, SBV University, Puducherry.
22. Delivered an invited talk on Application of Biotechnology in Aquaculture and Fisheries at the 2nd International Conference on —Molecular physiology, therapeutics, and experimental medicine (MPTM, 2019) on 24-25 July 2019, Organized by **Department of Animal Health and Management, Alagappa University, Tamilnadu, India.**
23. Delivered a keynote address and invited talk on the Application of herbal Immunomodulators in Aquaculture at the 1st International Conference on —Recent Advancement on Biomolecule Inventions (RABI'19) on 26-27 July 2019, Organized by the Department of Zoology, Holycross College, and FOUNDATION FOR INNOVATIVE RESEARCH IN SCIENCE AND

TECHNOLOGY Nagercoil, Tamilnadu, India.

24. Delivered a talk on water scarcity and sustainable Aquaculture Panel discussion at the 6th International Conference on Fisheries and Aquaculture 2019 to be held on the 22nd – 23rd August 2019 in Bangkok, Thailand.
25. Dr. K. Marimuthu delivered a Two-day workshop on “Application of statistics using Excel and SPSS in Research” at Sri Ramakrishna Mission Vidyalaya, College of Education (Autonomous), Coimbatore, 641020, Tamilnadu, India on 12 and 13 February 2020.
26. Dr. K. Marimuthu delivered an invited talk on the Application of Biotechnology in Aquaculture and Fisheries at the “International Conference on Novel Approach of Biotechnology and Bioengineering in Health Care System” on 6th March 2020, Organised by the Department of Biotechnology, Prathyusha Engineering College, Chennai, Tamilnadu, India
27. Dr. K. Marimuthu delivered an invited talk on Fish Consumption and Reduced Cancer Risk - A Review at the National Seminar on Translational research in oncology - Recent advances and prospects on 10th March 2020, Organised by College of Pharmaceutical Sciences, Dayananda Sagar University, Bangalore, India
28. Dr. K. Marimuthu conducted a “Two-day Faculty Development Workshop on “Application of statistics using Excel and SPSS in Research” at Dayananda Sagar University, Bangalore, India on 11 and 12 March 2020.
29. Dr. K. Marimuthu conducted a One day Online Workshop on Discovering and Learning Statistics Using MS Excel organized by Foundation for Innovative Research in Science and Technology, Nagercoil-629002. Kanyakumari, Tamilnadu, India on 16 May 2020.
30. Dr. K. Marimuthu Delivered an Invited Lecture at the International Webinar on “Business Development Skills in Life Science” entitled “Role of Immunomodulators in Aquaculture” organized by the Department of Animal Health and Management, Alagappa University, Karaikudi, Tamilnadu, India held on 27th May 2020.
31. Dr. K. Marimuthu delivered a talk on the Application of statistics in Research on 27, May 2020 organized by PG and Research Department of Microbiology, Sadakathullah Appa College, Palayamkottai, Tirunelveli, Tamilnadu, India
32. Dr. K. Marimuthu delivered an invited talk on the Application of statistics in Research at the 21 days Virtual Course on Research Methodology held on 24 June 2020, organized by K.S.Rangasamy College of Technology, Tiruchengode and Nature Science Foundation, Coimbatore Tamilnadu, India.

33. Dr. K. Marimuthu delivered an invited talk on the Conservation of Aquatic Biodiversity on 5th June 2020 at the celebration of World Environment Day, organized by PG & Research Department of Zoology and Wildlife Biology, A.V.C.College, (Autonomous), Mannampandal, 609305, Mayiladuthurai, Tamilnadu, India.
34. Delivered an invited talk on the Role of Herbal of Immunomodulators in Aquaculture at St Joseph College, Trichy, Tamilnadu, on 4th August 2020.
35. Delivered an invited talk on Aquatic Biodiversity Conservation at the International Webinar on Aquatic Biodiversity Conservation organized by the Department of Zoology & Internal Quality Assurance Cell (IQAC), Madurai Diraviyam Thayumanavar Hindu College Tirunelveli, Tamilnadu, India held on 11th August 2020 between 11.00 AM and 12.00 Noon (IST).
36. Delivered an invited talk on Approaches and Keys Used in Fish Species Identification organized by Vellalar college of Women, Thindal, Erode Tamilnadu on 3rd August 2020
37. Dr. K. Marimuthu delivered an invited talk on “**Role of Probiotics in Aquaculture**” organized by PG and Research Department of Microbiology, Hindustan College of Arts and Science, Coimbatore, Tamilnadu on 24 September 2020
38. Delivered an invited talk on Careers in Biological Sciences in UG and PG Zoology students seminar at VOC College, Tuticorin, Tamilnadu on 5th March 2021.
39. Dr. K. Marimuthu delivered an invited talk on Recent trends in Immunostimulant Applications in Aquaculture Industry on June 24, 2021, organized by Sadakathullah Appa College, Palayamkottai, Tamilnadu India.
40. **Dr. K. Marimuthu** delivered a keynote talk on Immunostimulants Application in Sustainable Aquaculture at the 10th International Conference on Multidisciplinary Research (ICMR) in Conjunction with the 2nd International and National Symposium on Aquatic Environment and Fisheries (INSAEF) 2021, held on September 27th, 2021 – Banda Aceh, Indonesia
41. **DR. KASI MARIMUTHU** served as an Evaluation Panel Member on The 8th International Conference on Fisheries and Aquaculture “Managing Fisheries and Aquaculture under New Normal Environment: Issues, Challenges and Opportunities ” held on 19th – 20th August 2021 organized by THE INTERNATIONAL INSTITUTE OF KNOWLEDGE MANAGEMENT, Sri Lanka
42. **Dr. K. Marimuthu** delivered an invited talk on “**Aquatic Biodiversity and**

its conservation” at the international webinar on Aquatic Ecosystem A Boon for Sustainable Development organized by the Department of Zoology, MV Muthiah Government Arts College for Women, Dindigul Tamilnadu, India on 14th September 2021.

43. Delivered an invited talk on the Application of immunomodulators Aquaculture on 25 February 2022, at Entrepreneurship FDP organized by PG Department of Zoology, Syed Ammal Arts and Science College, Pullangudi, Ramanathapuram, Tamilnadu India.
44. Delivered a keynote talk on **“Breeding and seed Production of snakehead and African Catfish”** at the international conference on Recent trends in Aquaculture held on 24th March 2022, organized by the Department of Zoology, St. Xavier’s College, Palayamkottai, Tamilnadu, India

STATISTICS WORKSHOP CONDUCTED:

1. Conducted a workshop on **“Basic statistics using Excel and SPSS”** for AIMST university staff members on 6th February 2015.
2. Conducted a workshop on **“Basic statistics using Excel and SPSS”** for AIMST university medical staff members on 12 March 2015.
3. Conducted a workshop on **“Basic statistics using Excel and SPSS”** in Sadakathullah Appa College, Tirunelveli, Tamilnadu, India on 4 and 5th January 2016.
4. Conducted a workshop on **“Statistical analysis using SPSS”** on 20 and 21 February 2016 organized by Panoply consultancy, Kuala Lumpur, Malaysia.
5. Conducted 2-day workshop on **“Statistics using Excel and SPSS”** UKF Engineering college and technology Paripally, Kerala, India on 4 and 5th July 2016.
6. Conducted a workshop on **“Statistics using Excel and SPSS”** at AIMST University on 20 and 21 September 2016.
7. Conducted three days workshop on **“Statistics using Excel and SPSS”** MDT Hindu College, Tirunelveli, Tamilnadu, India 3 – 6 January 2017.
8. Conducted two days workshop on **“Statistics using Excel and SPSS”** Holy cross College, Nagercoil, Tamilnadu, India 9 & 10 January 2017.
9. Conducted two days workshop on **“Application of Statistics using Excel**

- and SPSS”** Jeyaraj Annapackiam College for Women, Periyakulam, Tamilnadu, India 5 & 6 September 2017.
10. Conducted two day – workshop on SPSS for Researchers at St. Xavier’s College, Palayamkottai, Tamilnadu, India 8 & 9 January 2018
 11. Conducted three days workshop on **“Application of Statistics using Excel and SPSS”** Jeyaraj Annapackiam College for Women, Periyakulam, Tamilnadu, India 17 & 19 January 2018.
 12. Conducted Two days workshop on **“Application of Statistics using Excel and SPSS”** at the Department of Fisheries and Aquaculture, Faculty of Fisheries and Marine Sciences & Technology, University of Ruhuna, Matara 81000, Sri Lanka on 16 and 17 August 2018.
 13. Conducted Two days’ workshop on **“Application of Statistics using Excel and SPSS”** at Uwa Wellassa University, Sri Lanka, Badulla, Sri Lanka on 20 and 21 August 2018.
 14. Conducted **"3 DAYS WORKSHOP ON SCIENTIFIC WRITING AND APPLICATION OF STATISTICS USING EXCEL AND SPSS IN RESEARCH"** at AIMST University University, Malaysia on 10 -12 December 2018.
 15. Conducted Two days workshop on **“Application of Statistics using Excel and SPSS”** at Vivekananda College Agasteeswaram-629 701, Kanyakumari- Dist, Tamil Nadu, India on 3 and 4th January 2019.
 16. Conducted two days workshop on-**APPLICATION OF STATISTICS USING EXCEL AND SPSS FOR DATA ANALYSIS IN RESEARCH FOR M.Sc., M.Phil., Ph.D., THESIS AND PAPER PUBLICATIONS IN SCI JOURNALS**" at Nature Science Foundation, Vadavalli, Coimbatore – 641 046, Tamil Nadu on 7 and 8th January 2019.
 17. Conducted a **"Workshop on Important Statistical Methods Used in Research Using SPSS"** at the 6th International Conference on Fisheries and Aquaculture (ICFA 2019) —Sustainable Aquaculture: Nutritional Security and ExportsII 22nd – 23rd August 2019 in Bangkok, Thailand.
 18. Conducted a workshop on data analysis using Excel and SPSS for application of Biological Science Research-DABSR-2019 at Department of Zoology Kongunadu Arts and Science College (Autonomous), Coimbatore, Tamilnadu, India on 18 and 19 December 2019.
 19. Conducted a workshop on the Application of statistics using Excel and SPSS in Research, at Sri Ramakrishna Mission Vidyalaya, College of Education (Autonomous), Coimbatore – 641020, Tamilnadu, India, on 12 and 13 February 2020.

20. Dr. K. Marimuthu conducted a “Two-day Faculty Development Workshop on “Application of statistics using Excel and SPSS in Research” at Dayananda Sagar University, Bangalore, India on 11 and 12 March 2020.
21. Dr. K. Marimuthu conducted a “Two-day Workshop on “Application of statistics using Excel and SPSS in Research” at Prathyusha Engineering College, Chennai, Tamilnadu, India on 4 and 5th March 2020.
22. Dr. K. Marimuthu conducted a “Two day Workshop on “Application of statistics using Excel and SPSS in Research” at Gurunanak College, Chennai, Tamilnadu, India on 9 and 10th March 2020.
23. Dr. K. Marimuthu conducted a day Online Workshop on Discovering and Learning Statistics Using MS Excel organized by Foundation for Innovative Research in Science and Technology, Nagarcoil-629002. Kanyakumari, Tamilnadu, India on 16 May 2020.
24. Conducted a 3-day workshop data analysis in fisheries using Excel and SPSS”, at Fisheries College and Research Institute, Tamil Nadu Dr. J. Jayalalitha Fisheries University, Thoothukudi – 628008, Tamil Nadu, India, on 9 and 11 February 2021.
25. Conducted a 2-day workshop "Computational statistics for biologists", at the Department of Zoology, St Andrew's College, Gorakhpur, UP, India on 1 and 2 March 2021.
26. Conducted a 2-day workshop on data analysis and statistics using Excel and SPSS in Research ", at the Department of Zoology, Vellalar College for Women, Erode, Tamilnadu, India on 9 and 10 March 2021.
27. **Dr. K. Marimuthu delivered an invited talk on “Application of Statistics and Statistical Methods Used in Research”** followed by a Practical Online Hands-on session “ **Research Data analysis using MS Excel”** in an interdisciplinary refresher course on Environmental Studies on 12th March 2021, organized by DEPARTMENT OF ENVIRONMENTAL SCIENCE, SCHOOL OF EARTH SCIENCE SYSTEMS, CENTRAL UNIVERSITY OF KERALA, KERALA.
28. Conducted 5-day Certificate Programme ON APPLIED STATISTICAL DATA ANALYSIS USING SPSS on July 26 – 30, 2021 organized by ASBM University, Bhubaneswar, Orissa, India.
29. Conducted Six-Day Workshop on Data Analysis and Statistics Using SPSS from 02/08/2021 to 07/08/2021 organized by RESEARCH AND POSTGRADUATE DEPARTMENT OF COMMERCE, CATHOLICATE College, PATHANAMTHITTA, Kerala
30. Conducted 5-day workshop on DATA ANALYSIS & STATISTICS USING SPSS on August 15-19, 2021 organized by St. Xavier's College of Management & Technology, Patna, Bihar, India.
31. **Dr. K. Marimuthu delivered an invited talk on “Learning statistics and Data analysis using Excel and Practical Online Hands-on session 27 and**

29 October 2021 in Refresher Course in **Recent Developments in Life Sciences** is organized from **20.10.2021 to 02.11.2021** organized by Department of Plant Sciences, School of Biological Sciences, Madurai Kamaraj University, Madurai.

32. **Dr. K. Marimuthu delivered an invited talk on “Learning statistics and Data analysis using Excel and Practical Online Hands-on session in Refresher Course in Recent Developments in Life Sciences** is organized from **20.10.2021 to 02.11.2021** organized by Department of Plant Sciences, School of Biological Sciences, Madurai Kamaraj University, Madurai.

33. **Conducted One Week Skill Development Workshop On STATISTICAL ANALYSIS USING EXCEL, on 21 – 25th March 2022, organized by Chettinad School of Pharmaceutical Sciences In Association with Indian Pharmacy Graduates Association, Tamilnadu Branch, India**

AIMST UNIVERSITY MALAYSIA ACTIVITIES:

- **Co-Chairman (finance);** 2009 AIMST University 2nd convocation ceremony
- **Chairperson Secretariat;** 2011 AIMST university 4th convocation ceremony
- **Chairperson Secretariat;** 2012 AIMST university 5th convocation ceremony.
- **Chairperson Event Management;** 2013 AIMST university 6th convocation ceremony.
- **Co-Chairman -** 2014 AIMST university 7th Convocation Ceremony&
- **Chairperson - Secretariat** 2014 AIMST university 7th convocation ceremony
- **Chairman 2015** AIMST university 8th Convocation Ceremony
- **Chairman - Organized a National Seminar on Sustainable Environment and Health- WED 2016 events on 22nd September 2016 at AIMST University**
- **Advisor 2015 AIMST University 9th Convocation Ceremony**
- **Organizing Chairman - AIMST UNIVERSITY BIOTECHNOLOGY STUDENTS COLLOQUIUM - 2018 (AUBSC - 2018) held on 8th June 2018.**

NAME AND ADDRESS OF THE REFERENCES:

<p>Dr. K. Balaji Principal Avanathi Institute of Pharmaceutical Sciences, Hyderabad, India Phone: 0091- 7842162967 Email: kavetib@gmail.com</p> <p>Former Deputy Vice Chancellor of AIMST UNIVERSITY Kedah, Malaysia</p>	<p>Dr. M.A. HANIFFA Director & Emeritus Scientist Centre for Aquaculture Research and Extension St.Xavier's College (Autonomous) Palayamkottai - 627 002, Tirunelveli, Tamilnadu, India Email: haniffacare@gmail.com Mobile: 0091- 94431 57415 Website: www.caresxc.org</p>
<p>Dr. Muthukumar Muthuchamy Professor and Head Department of Environmental Science Central University of Kerala Kasargod – 671 361, Kerala, Tamilnadu, India Email: mmuthukumar@cukerala.ac.in Phone: 0091 8848281879</p>	<p>Dr. A. Manimegalan Professor Department of Environmental Science Bharathiyar University Coimbatore, Tamilnadu, India Email: manimekalan@gmail.com Phone:0091 9443464489</p>
<p>Dr. Md. Aminur Rahman Professor Department of Fisheries and Marine Bioscience, Faculty of Biological Science and Technology, Jashore University of Science and Technology Jashore-7408, Bangladesh Tel: +88 0421-61097 (Ext.353) Mobile: +88 01734-142726 Email: aminur1963@gmail.com; amin2019@just.edu.bd</p>	<p>Senior Professor. Dr. M. Ravichandran Dean, Faculty of Applied Sciences, AIMST University Bedong Semeling, 08100 Semeling Kedah Darul Aman, Malaysia Email: mravichandran08@gmail.com Mobile: 0060-129595269</p>