



Name : **Dr. D. Kumar., M.Sc., M.Phil., Ph.D**

Department : Zoology

Designation : Assistant Professor

Address : Department of Zoology, V.H.N.S.N. College
(Autonomous) Virudhunagar-626001

Phone : -Nil

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Experience in Teaching : 11 years

Experience in Research : More than 15 years

Education Qualification : **M.Sc., M.Phil., Ph.D.,**

Titles of Dissertation

M.Phil. : **Mass culture of *Chironomus* species under laboratory conditions and evolving its impact on growth performance in Aquaculture practices**

Ph.D. : **Bio-waste utilization by Larvae, Fry and Fingerlings of Murrels for Commercial culture**

Areas of Specialization : Live feed culture, freshwater fish breeding, fish toxicology, fish nutrition.

Courses Attended:

Orientation Course:

1. New Teachers Orientation Programme. (24.09.2010). Aditanar College of Arts and Science, Virapandianpatnam, Tiruchendur, Tamilnadu.
2. Orientation programme (Batch No 105) attended from 6.11.2014 to 3.12.2014 conducted by **UGC-Academic Staff College, Bharathiar University, Coimbatore.**

Refresher Course:

1. Participated 16th Life science Refresher Course from Dec 2nd to 22nd 2015 organised by **HRDC-Academic Staff College, Calicut University, Kerala.** Awarded with 'A' grade
2. Participated Science Academies' Refresher Course on "Developmental Biology 16-28 November 2015 *Sponsored by* Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi, *The National Academy of Sciences, India, Allahabad In collaboration with* National Institute for Research in Reproductive Health, Parel, Mumbai and Sophia College for Women, Mumbai.
3. Participated Science Academies' Refresher Course on "BIO-RESOURCES: PROSPECTING: UTILIZATION AND CONSERVATION from 1-14th November 2017 *Sponsored by* Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi, *The National Academy of Sciences, India, Allahabad Organized by* Department of Zoology, Saiva Bhanu Kshatriya College, Aruppukottai, Tamilnadu-626101.
4. Participated XIVth Refresher Course in Life sciences (ID) from Feb 1st to 21st 2019 Organised by **UGC- HRDC, University of Madras,** Awarded with 'A' grade.
5. Participated 14th Refresher Course (Online mode) in Life sciences (ID) from Sep 29th to Oct 12th 2021 Organised by **UGC- HRDC, University of Mysore,** Awarded with 'A' grade.

Project:

Major	Funding Agency	Minor	Funding Agency
<i>Mass Culture Technology of live feed Organism Midge fly larvae under Captive Condition</i>	SERB (2012-2015)	Major	-

Seminars Organized as convenor / Co-Ordinator:

1. **Recent Trends in Bio- Resources Conservation and Management”** (RTBCM - 2010). Organized on 15.10.2010 Department of Zoology, Aditanar College of Arts and Science, Virapandianpatnam, Tiruchendur, Tamilnadu.
2. Organized Intra department fish tank competition sponsored DBT -Star College Strengthening the UG Science students on March 23rd 2022 in the Department of Zoology V.H.N.S.N. College (Autonomous), Virudhunagar-626001.

Workshop Organized as convenor / Co-ordinator:-

1. Organized one day Hands on Training Workshop on **“Ornamental fish culture Techniques Sponsored DBT-Star College Strengthening the UG Science students-** on March 9th 2021 Department of Zoology, V.H.N.S.N. College (Autonomous), Virudhunagar-626001.

Seminars, Workshops and Conferences Attended

1. Advanced Training on Bio - Diversity and stock Assessment of Marine Ornamental fishes conducted by **Dept. of Fisheries Biology and Capture Fisheries, Fisheries College and Research Institute, Thoothukudi** from 20.09.2004 to 24.09.2004. Under ICAR/NATP/CGP sponsored scheme.
2. 14th National Children’s Science Congress – 2006. Focal theme Bio-Diversity- Nurture Nature for our Future. From May 26.05.2006 – 28.05.2006 at Yercad Salem. Conducted by Tamil Nadu Science Forum and catalyzed and supported

by Department of Science and Technology, Govt. of India New Delhi, NCSTC-NETWORK and RVPSP.

3. Tamil Nadu Government Sponsored (Part-II Scheme 2008-11) Training Programme on “**Methods in bioactive substance screening from marine Organism**” Organized by Department of fisheries Biology and Resources Management Fisheries College & Research Institute Thoothukudi from 28.03.2011- 31.03. 2011.
4. Marine Finfish Farming with focus on Cobia to improve the livelihood of fishers. (11.01.2011 -12. 01. 2011). Fisheries College & Research Institute, Thoothukudi, Tamilnadu.
5. National workshop on Cobia culture. (01.03.2013 -02. 03. 2013). Fisheries College & Research Institute, Thoothukudi, Tamilnadu.
6. UGC, DBT and DST Sponsored National Seminar cum Workshop on **Microbial Phylogenetics and Proteomics** (February 12-14th 2014) organized by Bioinformatics Infrastructure Facility and Department of Biotechnology, Alagappa University, Karaikudi.
7. MHRD Sponsored National Training programme on **Bio Diversity of Marine Molluscs (BOMM-2014)** on March 13th & 14th 2014 conducted by Centre of Advanced Study in Marine Biology, Faculty of Marine Science, Annamalai University, Parangipettai.
8. One day National workshop on Focus on Climate change on rural Livelihood and Farming Sector held on October 11th 2014 organized by Department of Livestock production and Management, Madras Veterinary College, Chennai-7
9. UGC Autonomous grant funded National Workshop cum Hands on Training on “DNA Barcoding-Molecular Analysis & Bioinformatics Approaches” held on 07th -10th September 2016 Organized by PG & Research Dept. of Biotechnology, Islamiah College (Autonomous) Vaniyampadi-635 752 in collaboration with Yaah Xenomics, Chennai

National level Seminars / Workshops / Conference

1. *Aquatic Resources, Aquaculture and Aqua Show (Confaqua 2006)* from 15.02.2006- 17.02.2006 in St. Xavier's college (Autonomous) Palayamkottai Tirunelveli.
2. *Bio-Diversity Conservation and Sustainable utilization (NCBCSU - 2012)* from 11.10.2012- 12.10.2012 in Department of Botany, at Pasumpon Thiru Muthuramalinga Thevar Memorial College Kottaimadu, Kamuthi.
3. *Marine and Terrene Ecology (ICMTE) Jesuit Tsunami Services* on 17.01.2006 - 19.01. 2006 at St. Xavier's College Palayamkottai, Tirunelveli.
4. *Recent trends in fisheries education and research* on 4.12.2004. Fisheries College and Research institute Tamil Nadu Veterinary and animal Science University. Thoothukudi.
5. *Rejuvenation and Reclamation of coral reefs in Gulf of Mannar* held at Kamaraj College, Thoothukudi. From 20.01.2005 - 22.01.2005.
6. *Nature and Biodiversity Conservation"* Organized by Dept. of Plant Biology Biotechnology & Dept. of Advanced Zoology & Biotechnology on 31.01.2011 at Sadakathullah Appa College (Autonomus) Tirunelveli.
7. *Creation of top-Class Institutional facilities in Universities and Colleges.* Organized by Center for Educational Research & Youth Welfare studies at Madurai Kamaraj University Madurai on 28.09.2012- 29.09.2012.
8. UGC Sponsored National conference on Biological Sciences; The amalgamation and Advancement of Multidisciplinary life sciences on December 18th, 19th 2014 organized by Department of Bio chemistry at V.V Vanniaperumal College for Women (Autonomous) Virudhunagar-626001.
9. Participated UGC sponsored National Seminar on Cancer Biology: Drug Discovery and Novel Therapeutics on 23rd January 2015 organised by Department of Zoology, SAIVA BHANU KSHATRIYA COLLEGE Aruppukottai.

10. Participated One day State level Seminar on Multidimensional Research in Biological Sciences" held on 21st march 2015 at Venture Institute of Biotechnology Research, Madurai-625004.
11. Participated National Conference on Recent Trends in Modern Biology & 47th Aqua-Terr Annual Conference from Feb 27th -28th 2016 organised by School of Biological sciences, Madurai Kamaraj University Madurai 625021.

International level Seminars / Workshops / Conference-Nil

Papers Presented in State level Seminars / Workshops / Conference

1. Veerabahu, C. Radhika, D. **Kumar. D.** (2006). *Chironomus larvae* culture - A boon to Aquaculture. *National Conference on Aquatic Resources, Aquaculture and Aqua Show (Confaqua 2006)*. Centre for Aquaculture Research and Extension, Department of Zoology, St. Xavier's college (Autonomous) Palayamkottai - 627 002. Tirunelveli, Tamil nadu. Feb: 15 - 17.
2. Veerabahu, C. Radhika D. and **Kumar. D.** (2006). *Chironomus circumdatus* and *C. ramosus*-Occurrence in Tuticorin and some aspects on mass culture Presented at *International Conference on Bio-Diversity of Insects: Challenging issues in management and Conservation*, Bharathiar University, Coimbatore from 30.01.2006 - 3.02. 2006.
3. **Kumar. D.** Muruganadam. M. (2007). Culture and production of midge fly larvae using different organic nutrient waste under laboratory condition. Presented at the National Symposium on Current trends in Biotechnology held at the Department of Bio technology. St. Michael College of Engineering & Technology, Kalayar kovil dated 22.02.2007. Sponsored by AICTE & CSIR, New Delhi.
4. **Kumar, D.** Vasudevan I. Ramesh U. & Mariselvam M. (2012). Growth performance of Gold fish *Carassius auratus* fry fed with different formulated diets. Hari Publication Nagarkovil. Presented at National Level Seminar on "Live Jewels Breeding and Management Techniques" (LJBMT - 2012). Hari

Publication Nagarkovil. *Proceedings ISPN.NO.13-978-93-80819-12-9*. Pp - 33 - 40.

5. Vasudevan, I. James R. **Kumar, D.** Rajaselvam, J. Ashokan, K. & Anna Nishanthini. J. (2012). Effects of Spirulina with different levels of vitamin on growth and reproduction in Neon Tetra (*Paracheirodon Innesi*). Presented at National Level Seminar on **“Live Jewels Breeding and Management Techniques” (LJBMT - 2012)**. Hari Publication Nagarkovil. **Proceedings ISPN.NO.13-978-93-80819-12-9. Pp 21- 27.**
6. National Seminar on **“Live Jewels Breeding and Management Techniques”** Organized by Dept. of Zoology held at Vivekananda College, Agasteeswaram, Kanyakumari on October 12th 2012.
7. 3rd International Congress on Global Warming on Biodiversity of Insects management and Conservation strategies (GW-BIMC, 2013), Department of Zoology, Bharathiar University, Coimbatore held on Nov 26th to 28th 2013 .
8. Kumar.D , Arumugam .A (2015) Rearing of *Channa striatus* fry fed with different feeds under lab condition presented at 12th National Level Biological Congress on Recent trends in Biological sciences towards sustainable Development on Jan 9 & 10th 2015 Organized by Department of Biological Sciences Muthayammal College of arts & Sciences Rasipuram, Namakkal.
9. Kumar.D,Haniffa M.A and Y.Ananthkumar (2015). Growth performance of stripped Murrel *Channa striatus* reared in earthen ponds fed with different animal bio waste presented in National Seminar on Bio Diversity and Conservation; Present status and Future perspectives held on Feb 12th and 13th 2015 Organized by Department of Zoology, St. Xavier’s College (Autonomous), Palayamkottai
10. Kumar.D,Haniffa M.A and Y.Ananthkumar (2015). Gonad development of *Channa striatus* fingerlings fed on different diets presented in National Seminar on Bio Diversity and Conservation; Present status and Future perspectives

held on Feb 12th and 13th 2015 Organized by Department of Zoology, St. Xavier's College (Autonomous), Palayamkottai.

11. Kumar.D,Rajaram.K.(2015).Aquaculture in india presented in the National Level seminar on "Recent Innovations and Developments in Biological Sciences" (BIO - RID - 2015) on 20-10-2015 Organized by Department of Zoology ,Sadakathullah Appa college, Tirunelveli.
12. Kumar.D, A.Asharaja (2015).Importance of Aquaculture presented in the National Level seminar on "Recent Innovations and Developments in Biological Sciences" (BIO - RID - 2015) on 20-10-2015 Organized by Department of Zoology ,Sadakathullah Appa college, Tirunelveli.
13. Kumar.D, Haniffa, M.A (2017). Influence of Isonitrogenous protein diets on growth performance of stripped Murrels *Channa striatus* fingerlings presented in National Conference on Innovations in Modern Biology & 48th AQUA-TERR Annual Conference on February 27th, 28th 2017 Sponsored by UGC, SERB, New Delhi, Organized by School of Biological Sciences, Madurai Kamaraj University, Madurai-625021.

Paper Presented in National level Seminars / Workshops / Conference

Presentation of paper / poster in Conferences / Seminars

1. Veerabahu, C. Radhika, D. **Kumar. D.** (2006). *Chironomus larvae* culture - A boon to Aquaculture. *National Conference on Aquatic Resources, Aquaculture and Aqua Show (Confaqua 2006)*. Centre for Aquaculture Research and Extension, Department of Zoology, St. Xavier's college (Autonomous) Palayamkottai - 627 002. Tirunelveli, Tamil nadu. Feb: 15 - 17.
2. Veerabahu, C. Radhika D. and **Kumar. D.** (2006). *Chironomus circumdatus* and *C.ramosus*-Occurrence in Tuticorin and some aspects on mass culture Presented at *International Conference on Bio-Diversity of Insects: Challenging issues in management and Conservation*, Bharathiar University, Coimbatore from 30.01.2006 - 3.02. 2006.

3. **Kumar, D.** Muruganadam. M. (2007). Culture and production of midge fly larvae using different organic nutrient waste under laboratory condition. Presented at the National Symposium on Current trends in Biotechnology held at the Department of Bio technology. St. Michael College of Engineering & Technology, Kalayar kovil dated 22.02.2007. Sponsored by AICTE & CSIR, New Delhi.
4. **Kumar, D.** Vasudevan I. Ramesh U. & Mariselvam M. (2012). Growth performance of Gold fish *Carassius auratus* fry fed with different formulated diets. Hari Publication Nagarkovil. Presented at National Level Seminar on **“Live Jewels Breeding and Management Techniques” (LJBMT - 2012)**. Hari Publication Nagarkovil. *Proceedings ISPN.NO.13-978-93-80819-12-9. Pp - 33 - 40.*
5. Vasudevan, I. James R. **Kumar, D.** Rajaselvam, J. Ashokan, K. & Anna Nishanthini. J. (2012). Effects of Spirulina with different levels of vitamin on growth and reproduction in Neon Tetra (*Paracheirodon Innesi*). Presented at National Level Seminar on **“Live Jewels Breeding and Management Techniques” (LJBMT - 2012)**. Hari Publication Nagarkovil. **Proceedings ISPN.NO.13-978-93-80819-12-9. Pp 21- 27.**
6. National Seminar on **“Live Jewels Breeding and Management Techniques”** Organized by Dept. of Zoology held at Vivekananda College, Agasteeswaram, Kanyakumari on October 12th 2012.
7. 3rd International Congress on Global Warming on Biodiversity of Insects management and Conservation strategies (GW-BIMC, 2013), Department of Zoology, Bharathiar University, Coimbatore held on Nov 26th to 28th 2013.

8. Kumar.D, Arumugam. A (2015) Rearing of *Channa striatus* fry fed with different feeds under lab condition presented at 12th National Level Biological Congress on Recent trends in biological sciences towards sustainable Development on Jan 9 & 10th 2015 Organized by Department of Biological Sciences Muthayammal College of arts & Sciences Rasipuram, Namakkal.
9. Kumar.D,Haniffa M.A and Y.Ananthkumar (2015). Growth performance of stripped murrel *Channa striatus* reared in earthen ponds fed with different animal bio waste presented in National Seminar on Bio Diversity and Conservation; Present status and Future perspectives held on Feb 12th and 13th 2015 Organized by Department of Zoology, St. Xavier's College (Autonomous), Palayamkottai
10. Kumar.D,Haniffa M.A and Y.Ananthkumar (2015). Gonad development of *Channa striatus* fingerlings fed on different diets presented in National Seminar on Bio Diversity and Conservation; Present status and Future perspectives held on Feb 12th and 13th 2015 Organized by Department of Zoology, St.Xavier's College (Autonomous), Palayamkottai.
11. Kumar.D,Rajaram.K.(2015).Aquaculture in India presented in the National Level seminar on "Recent Innovations and Developments in Biological Sciences" (BIO - RID - 2015) on 20-10-2015 Organized by Department of Zoology ,Sadakathullah Appa College, Tirunelveli.
12. Kumar.D, A.Asharaja (2015).Importance of Aquaculture presented in the National Level seminar on "Recent Innovations and Developments in Biological Sciences" (BIO - RID - 2015) on 20-10-2015 Organized by Department of Zoology ,Sadakathullah Appa college, Tirunelveli.

13. Kumar.D, Haniffa, M.A (2017). Influence of Isonitrogenous protein diets on growth performance of stripped Murrels *Channa striatus* fingerlings presented in National Conference on Innovations in Modern Biology & 48th AQUA-TERR Annual Conference on February 27th, 28th 2017 Sponsored by UGC, SERB, New Delhi, Organized by School of Biological Sciences, Madurai Kamaraj University, Madurai-625021.
14. Kumar.D, Jamunarani.M,Sathya.G, Nagarajan.N.(2018).Water eminence investigation of heavy metal treated experimental tap water Presented in Zoology Congress-2018 (ZOOCONG-18)-Diamond Jubilee celebration-1957-2017-Organised by Department of Zoology.St.xavier's College (Autonomouous),Palayamkottai-627002.
15. Kumar.D, Jamunarani.M,Sathya.G, Nagarajan.N.(2018).Accumulation of selected heavy metals in *Oreochromis mossambicus* fed with different protein diet under lab condition-potential hazards to fish and consumers Presented in Zoology Congress-2018 (ZOOCONG-18)-Diamond Jubilee celebration-1957-2017-Organised by Department of Zoology. St.Xavier's College (Autonomouous),Palayamkottai-627002.
16. Kumar.D,Jamunarani.M,and Nagarajan.N (2018) Heavy metal analysis of *Oreochromis mossambicus* using Atomic adsorption Spectroscopy Presented in UGC Sponsored National Conference on "Bio-Industries for Sustainable Livelihood" (NCBISL-2018)-Organised by Department of Biology, School of Sciences The Gandhigram Rural Institute (Deemed to be University),Gandhigram-624302,Dindigul District.

17. Nagarajan. N, Noortheen.A, Kumar.D and P.Rajendiren (2018). A review on Bioremediation of heavy metals in Electroplating industrial effluent Presented in UGC Sponsored National Conference on “Bio-Industries for Sustainable Livelihood” (NCBISL-2018)-Organized by Department of Biology, School of Sciences the Gandhigram Rural Institute (Deemed to be University), Gandhigram-624302, Dindigul District.

18. Kumar.D,Sathya.G, Jamunarani.M and Nagarajan N. Determination of heavy metals in *Channa striatus* fingerlings using Atomic Absorption Spectrometry Presented on National Seminar on “Awareness on Current Scenario of Biodiversity and the Biodiversity Act 2002-Biodiversity-Future of Nature held at Department of Biotechnology, Islamiah College (Autonomous), Vaniyambadi- Edited book page 144-158.Publishers-Today graphics Chennai ISBN-978-93-87882-80-5.

19. Kumar.D,Sathya.G, Jamunarani.M and Nagarajan N (2019). Growth performance of Metal stressed (Ni,Pb,Cd) *Channa striatus* Fingerling reared in laboratory condition. National Seminar on “Awareness on Current Scenario of Biodiversity and the Biodiversity Act 2002-Biodiversity-Future of Nature held at Department of Biotechnology, Islamiah College (Autonomous), Vaniyambadi- Edited book page 144-158.Publishers-Today graphics Chennai ISBN-978-93-87882-80-5.

Paper Presented in International level Seminars / Workshops / Conference- Nil

Books Published: Nil

Chapter in Book: - Nil

Books Edited: - Nil

Research Publications:

Research Publications in International Journals

1. **Kumar.D**, Marimuthu.K., Haniffa .M.A., and Sethuramalingam.T.A. (2010).Optimum dietary protein requirement of stripped Murrel *Channa striatus* fry. *Malaysian Journal of Science*: 29: (1) 52-61. ISSN: NO: 13943065.
2. Veerabahu. C, Radhika. D, Felsia. R. and **Kumar.D**. (2005). Effect of different diets using sewage sludge on the growth performance of the gold fish *Carassius auratus*. *Malaysian Journal of Science*: 24: 9 - 15. ISSN: NO: 13943065.
3. **Kumar, D**. Narayanan M. and Ibrahim. A. (2004). Effect of low pH on Electrolytes evaluation of *Oreochromis mossambicus*. *Malaysian Journal of Science*: 23 (2): 31- 35. **Impact factor: 0.016** ISSN: NO: 13943065.
4. **Kumar, D**. Marimuthu.K, Haniffa. M.A, Sethuramalingam T.A. (2008). Effect of different live feeds on growth and survival of stripped Murrel *Channa striatus* larvae. *Journal of Fisheries and Aquatic Sciences* 25: (2): 105 - 110. ISSN: NO: 1300-1590.

Research Publications in National Journals

1. Haniffa.M.A, Marimuthu K. Nagarajan, M. Jesu Arokiaraj A and **Kumar D**. (2004). Breeding behavior and parental care of the induced bred spotted murrel *Channa punctatus* under captivity. *Current Science*: 86 (10): 1375-1376. **Impact factor: 0.897**. (ISSN: 0973-2225).
2. Veerabau, C. Radhika, D. and **Kumar.D**. (2006). Life cycle and larval rearing of *Chironomus ramosus* using different organic nutrients. *Journal Environment and Ecology*. 24: (2): 373 – 378. ISSN: NO: 0970 - 0420.
3. **Kumar D**. and Narayanan. M. (2006). Electrolyte assessment of *Channa striatus* fingerling due to low pH effect. *Journal of Environment and Ecology*: 24 (3): 535 – 538. ISSN: NO: 0970 - 0420.

4. **Kumar D.** and Haniffa. M.A. (2006). Growth rates of *Channa striatus* fry fed on different formulated diets. *Journal of Theoretical Experimental Biology*: 2 (3, 4): 107 - 109. ISSN: NO: 0972 - 9720.
5. **Kumar D.** and Haniffa. M.A. (2006). Effects of different diets on survival and growth of striped murrel fry *Channa striatus*. *Mapana Journal of Science*: 5: 30 - 37. ISSN: NO: 0975 - 3303.
6. **Kumar, D.** Ramesh U. (2012). Developmental stages of *Chironomus circumdatus* of Tuticorin using wet cow dung extract under laboratory condition. *Bio Chem. Cell. Arch.* Vol. 11 (2). 359-363. ISSN 0972-5075.
7. **Kumar. D.** Ramesh U. (2012). Emergence of Midge flies larvae in organic culture media under laboratory condition. Vol. No. 3 (2):17-19 *Int. J. Biological Technology* (IJBT-ISSN: No: 0976 - 4313).
8. Radhika, D. Veerabahhu, C. and **Kumar. D.** (2007). Growth assessment of red swordtails *Xiphophorus helleri* (poeciliidae) fed on three different diets. *Aquacult*: 8 (1) 21 - 26. ISSN: NO: 0972 - 2262.
9. **Kumar. D.,** Arockia Mary Fernandez (2010). Growth appraisal of *Channa striatus* fry using sewage sludge mixed diets. *Journal of Aquacult.* 11 (1): 65-70. ISSN: NO: 0972 - 2262.
10. **Kumar. D.,** Veerabahu.C. (2008). Swarming and mating behavior of Fresh water *Chironomous circumdatus* under lab condition. *Journal of Ecology Environment and conservation* 16 (3):355-357. ISSN: NO: 0971-765X.
11. **Kumar.D.,** (2008). Effect of low pH on hematological studies of Tilapia *Oreochromis mossambicus*. *Journal of Ecobiology.* 28 (1) 41-48. ISSN: NO: 0970-9037 28.
12. Haniffa, M.A. **Kumar, D.** Sethuramalingam, T.A. Allen Benziger P.S. and Ananathakumar. Y. (2007). Low cost larval rearing device for murrel culture. *Fish Farmer*: 30 (1): 32 - 33. ISSN: NO: 0262 9615.

13. **Kumar. D**, Ramesh. U and M.Mariselvan (2013). Growth performance of *Carassius auratus* fry fed with *Chironomus larvae* and other pelleted feed. Int. J. Applied Bio Research. 18:39 – 44.
14. **Kumar.D.,** Ramesh., U. (2014). Rearing practices of live feedstuff animal midge fly larvae (*Chironomus circumdatus*) Kieffer (Diptera: Chironomidae). INT J CURR SCI 2014, 12: E 170-177.E-ISSN 2250-1770
15. Kumar.D and Haniffa.M.A. (2015). Nutritional Protein Requirement of Striped Murrel *Channa striatus* Fingerlings Fed on Different Protein Level Diets. Int. Res. J. of Natural and Applied Sciences.2:2 152-172. ISSN: (2349-4077)
16. Kumar,D.(2016). Chironomous larvae culture - A boon to Aquaculture sector. Int. Journal of Current Science Research Vol (2) 1: pp 239-251.ISSN:2454-5422.
17. P.Senthilkumar,T. Selvakumar G.Rameshkumar V.Shanmugavel K.Nagarajan A Noortheen and D.Kumar (2015). Assessment of Municipal solid waste generation in Aruppukottai town.Int. Journal of Current Science Research Vol (1) 1: pp 14-18.ISSN:2454-5422.
18. Kumar,D, Veerabahu C, and Arumugam. A (2016). Bio-Conversion of wastewater nutrients using *Eichornia crassipes*, Int. Journal of Current Science Research Vol: 2: (6) pp 731-737. ISSN- 2454-5422.
19. Kumar,D, Haniffa M.A (2016). Growth Judgment of *Channa striatus* fry fed with different live feeds. Int. Journal of Current Science Research Vol: 2: (12): pp 1034-1043. ISSN: 2454-5422.
20. Kumar,D, Jamunarani.M, and Nagarajan.N (2018). Heavy Metal Analysis of *Oreochromis mossambicus* using Atomic Adsorption Spectroscopy. Int. Journal of Current Science Research Vol: 4: (7): pp 1635-1648. ISSN: 2454-5422.

21. Deepa Jaiswal., Devadoss Kumar., Shiva Shankar Karuthapandi Madasamy1 (2022). Diversity and Distribution of Aquatic Beetles (Insecta: Coleoptera) in Kawal Tiger Reserve, Telangana, India. Species:23 (71) 277-284

Research Publications in Edited Books

Degree	Awarded	Submitted	Guiding
Ph.D.			1
M.Phil	3		
M.Sc	3		

Invited Lectures Delivered:

1. Live feed culture - A boon to Aquaculture given in **Holy Cross Home Science College** at Thoothukudi on 28.07.2006.
2. Fresh water fish culture in the **IlayaBharatham** session at **All India Radio** Thoothukudi on 15.05.2006.
3. Live feed culture - A boon to Aquaculture given in **Holy Cross Home Science** College at Thoothukudi on July 28th 2006.
4. Basics of Molecular Biology - lecture given on Jerusalem College of Engineering Pallikaranai, Chennai on Nov 9th 2011 sponsored by DST-Inspire programme, New Delhi.
5. Techniques of Molecular Biology - lecture given on Jerusalem College of Engineering Pallikaranai, Chennai on Nov 30th 2011 sponsored by DST-Inspire programme, New Delhi.
6. Bio waste -utilization for aquaculture practices-lecture given on Jerusalem College of Engineering Pallikaranai, Chennai on July 18th 2014 sponsored by DST-Inspire programme, New Delhi.
7. Conservation of Fresh water fishes -guest lecture given on V.M.S.P Nadar College of Education, organized by Department of Biological Science Virudhunagar on April 1st 2015.

Resource Person

Acted as Resource Persons – State level:

1. Acted as a resource person in UGC Sponsored National seminar on Conservation and Sustainable Utilization of Marine resources (Marine Meet - 2015) held on January 22nd & 23rd 2015 organised by Department of Zoology T.D.M.N.S. College T.Kallikulam.
2. Served as a Resource person in the Young student scientist programme (YSSP-2015) held on 04.05.2015 - 18.05.2015 conducted by V.H.N.S.N College (Autonomous) sponsored by TNSCST, Chennai.
3. Served as a Resource person in 26th National Children's Science Congress - 2018 (A programme of NCSTC, Govt. of India, New Delhi) Co-ordinated by Tamil nadu Science Forum held on 27-10-2018 at K.V.S.Hr. Sec. School, Virudhunagar.
4. Served as a Resource person in the young student scientist programme (YSSP-2015) held on 04.05.2015 - 18.05.2015 conducted by V.H.N.S.N College (Autonomous) sponsored by TNSCST, Chennai.
5. Participated as an Evaluator in 29th National Children's Science Congress - 2021 (A programme of NCSTC, Govt. of India, New Delhi) Co-ordinated by Tamil nadu Science Forum held on 08-12-2021 at K.V.S.Hr. Sec. School, Virudhunagar

Co-Ordinator:

Board of Studies Member:

1. Attended board of studies meeting held in the Department of Zoology on Feb 8th 2020 at St. Xavier's College, Palayamkottai.
- 2.

Honours Achieved:

Extension Activities

1. Served as a Resource person in 26th National Children's Science Congress - 2018 (A programme of NCSTC, Govt. of India, New Delhi) Co-ordinated by

Tamil nadu Science Forum held on 27-10-2018 at K.V.S.Hr. Sec. School, Virudhunagar.

2. Served as a Resource person in the young student scientist programme (YSSP-2015) held on 04.05.2015 - 18.05.2015 conducted by V.H.N.S.N College (Autonomous) sponsored by TNSCST, Chennai.
3. Participated as an Evaluator in 29th National Children's Science Congress - 2021 (A programme of NCSTC, Govt. of India, New Delhi) Co-ordinated by Tamil nadu Science Forum held on 08-12-2021 at K.V.S.Hr. Sec. School, Virudhunagar.

Others

1. Professional Recognition / Honors / Awards/ Fellowships Received

1. **Project Fellow.** (03.06.2002 - 30.06.2004). Major Research projects entitled "*Bio waste Utilization by larvae, fry and fingerlings of Murrels for Commercial culture*". **University Grants Commission, New Delhi. Government of India.** Ref No: F3-73/2001 (SR-II) dt.15.06.2001). Center for Aquaculture Research and Extension (CARE), Department of Zoology, St. Xavier's College (Autonomous), Palayamkottai - 627 002, Tirunelveli, Tamilnadu.
2. **Senior Research Fellow.** (15.11.2004 - 14.11.2006). Major Research project entitled "*Technology development for Mass Production of Midge fly larvae to serve as a live feed to cultivable fin and Shell fishes*". **Indian Council of Agricultural Research, New Delhi. Government of India.** ICAR - F.No.4 (23)/2003, ASR-1. Department of Zoology, V.O. Chidambaram College Tuticorin, Tamilnadu.
3. **Award: Young Scientist from - 2012 Science Engineering Research Board - - (SERB).** (From April 2nd 2012- March 31st 2015). *Mass Culture Technology of live feed Organism Midge fly larvae under Captive Condition.* Department of Zoology, **V.H.N.S.N. College (Autonomous), Virudhunagar** Tamilnadu. Ref No: SR/FT/LS - 158/2009 dt 02.03.2012. **Government of India, SERB, New Delhi.** Revised Total funds of the project is Rs: 15,06,861/-.
4. **Award:** Honored with PEARL Foundation -Best Assistant Professor Award in Zoology-2017 During the National Conference on SMART SUMMIT-2017 on Dec 10th 2017 Organized by PEARL-A Foundation for Educational Excellence, Madurai, India at Fortune Pandian Hotel, Madurai.

Teaching Experience Profile

1. Served as a Lecturer (01.04.2005 - 31.03.2006). Department of Diploma in Food Technology and Diploma in Health Inspector from in Sri. Krishna College of Science and Technology, Tenkasi, Tamilnadu.
2. Lecturer. (02.07.2007 - 31.07.2009). Department of Biological Science, Sri. Saraswathi College of Education, Ponneri, Tamilnadu.
3. **UGC: FDP - Assistant Professor.** (03.03.2010 - 29.02.2012). Faculty Development Programme University **Grants Commission**, New Delhi. **Government of India.** Ref No: K.Dis .No.E3/01390/2010.dt.22.02.2010). Department of Zoology, Aditanar College of Arts and Science, Virapandianpatnam, Tiruchendur, Tamilnadu.
4. Working as an Assistant Professor (Regular) from 22.08.2013 to till date Department of Zoology, V.H.N.S.N. College (Autonomous) Virudhunagar.

Question Paper Settings

1. Hajee Karutha Rowther Howdia College, Uthamapalayam
2. St. Xavier's College, Palayamkottai
3. S. Vellaisamy Nadar College, Madurai-19
4. Sri Meenakshi Government Arts College for women (A) Madurai.
5. G.T.N.College, Dindigul.
6. Sathakapptulla College Tirunelveli.
7. M.S University, Tirunelveli.
8. Thanthai Hans Roever College
9. Vivekanantha College, Tiruvedakam.
10. Alagappa University, Karaikudi.

External Practical Examiner in College Level

1. V.V. Vanniaperumal College for Women (Autonomous). Virudhunagar.

Central Paper Valuation:

1. Madurai Kamaraj University, Madurai
2. V.V.Vanniyaperumal womens College (Autonomous), Virudhunagar,
3. Vivekanandha College, Tiruvedagam

Training/Workshop Programme Attended

1. Advanced Training on Bio - Diversity and stock Assessment of Marine Ornamental fishes conducted by **Dept. of Fisheries Biology and Capture Fisheries, Fisheries College and Research Institute, Thoothukudi** from 20.09.2004 to 24.09.2004. Under ICAR/NATP/CGP sponsored scheme.
2. 14th National Children's Science Congress - 2006. Focal theme Bio-Diversity-Nurture Nature for our Future. From May 26.05.2006 - 28.05.2006 at Yercad Salem. Conducted by Tamil Nadu Science Forum and catalyzed and supported

by Department of Science and Technology, Govt. of India New Delhi, NCSTC-NETWORK and RVPSP.

3. Tamil Nadu Government Sponsored (Part-II Scheme 2008-11) Training Programme on “**Methods in bioactive substance screening from marine Organism**” Organized by Department of fisheries Biology and Resources Management Fisheries College & Research Institute Thoothukudi from 28.03.2011- 31.03. 2011.
4. Marine Finfish Farming with focus on Cobia to improve the livelihood of fishers. (11.01.2011 -12. 01. 2011). Fisheries College & Research Institute, Thoothukudi, Tamilnadu.
5. National workshop on Cobia culture. (01.03.2013 -02. 03. 2013). Fisheries College & Research Institute, Thoothukudi, Tamilnadu.
6. UGC, DBT and DST Sponsored National Seminar cum Workshop on **Microbial Phylogenetics and Proteomics** (February 12-14th 2014) organized by Bioinformatics Infrastructure Facility and Department of Biotechnology, Alagappa University, Karaikudi.
7. MHRD Sponsored National Training programme on **Bio Diversity of Marine Molluscs (BOMM-2014)** on March 13th & 14th 2014 conducted by Centre of Advanced Study in Marine Biology, Faculty of Marine Science, Annamalai University, Parangipettai.
8. One day National workshop on Focus on Climate change on rural Livelihood and Farming Sector held on October 11th 2014 organized by Department of Livestock production and Management, Madras Veterinary College, Chennai-7.
9. UGC Autonomous grant funded National Workshop cum Hands on Training on “DNA Barcoding-Molecular Analysis & Bioinformatics Approaches” held on 07th -10th September 2016 Organized by PG & Research Dept. of Biotechnology, Islamiah College (Autonomous) Vaniyampadi-635 752 in collaboration with Yaah Xenomics, Chennai.
10. Two-day Workshop on “Excel Applications in Data Management” held on August 3rd & 4th 2017 Organized by Department of Management Studies, Mepco Schlenk Engineering College (Autonomous), Sivakasi.
11. Participated the Faculty Development Programme on Hands on Training on Mendeley for effective reference Management organized by Internal Quality

Assurance Cell and Research wing of VHNSN College (Autonomous), Virudhunagar on September 16th 2017.

12. UGC Autonomous grant funded 3rd National Workshop cum Hands on Training on “DNA Barcoding - A Molecular Tool for Identification of Species - From Theory to Practice (9th & 10th January 2019) held at Dept. of Biotechnology, Islamiah (Autonomous) Vaniyambadi, 635 752.
13. Participated in Two days “**In service Teacher Training**” Programme in Life Sciences held at Mother Teresa University Kodaikanal on 12-05-2022 and 13-05-2022 Sponsored by Tamil Nadu State Council for Higher Education Chennai 600 005.

FDP-National/International Webinar Programme attended

1. Participated the **five days National level webinar** Knowledge Series on Horizons in Research organized by Tamilnadu Teachers Education University Chennai, Lady Willington Institute of Advanced study in Education Chennai and Stella Matutina college of education, Chennai from 13-07-2020 to 17-07-2020.
2. Participated **Three day online National faculty development programme** on A Perspective of Emerging Advances in Life sciences’ Organised by the P.G Research Department of Zoology, Ethiraj College for Women, Chennai from 27-06-2020 to 29-07-2020.
3. Participated the **International Webinar series on “Recent Advances in Life Sciences** dated from 08-07-2020 to 10-07-2020 organized by the Department of Zoology, Sri Meenakshi Government Arts College for Women (Autonomous), Madurai Tamil nadu India 625002.
4. Participated the **two days webinar on Future Perspective in Biotechnology** Organized by School of life Sciences B.S. Abdur Rahman Crescent Institute of Sciences & Technology, Vandalur, Chennai in Association with Unnat Bharat Abhiyan held on June 11 & 12th 2020.

5. Participated the **seven-day faculty development Programme** on Institutional Benchmarking of best Practices' Organised by 10 premier Institutes of India from June 8th to 14th 2020.
6. Participated the **Three day Online National Level Workshop** on DNA Barcoding from 22nd to 24th May 2020 Organised by the Department of Biotechnology, Islamiah College (Autonomous), Vaniyambadi.
7. Participated the **Two-day International Webinar** on Recent Trends in Nanomaterials & Nano biomaterials on 14th & 15th June 2020 Organized by Department of Physics, Narajole Raj College Pashium Medinipur-721211.
8. Participated the **Two-week MOOC Workshop for College Teachers** on Management of Environment and Its Resources" Jointly conducted by Department of Chemistry & Research, Nesamony Memorial Christian College, Marthandom and Department of Chemistry & Research, St. Xavier's College (Autonomous), Palayamkottai, Tirunelveli from 28th April to 11th 2020.
9. Participated the **Three days Virtual training Lecture on** "Techniques in Intensive Production of Marine Copepods (TIPMAC-2020) held during June 17th to 19th 2020 conducted by Marine Planktonology & Aquaculture Laboratory, Department of Marine Sciences, School of Marine Sciences, Bharathidasan University, Tiruchirappalli-24 Tamilnadu.

Participated the **Online Refresher Course on Science Academies** conducted by PG & Research Department of Chemistry & Physics, A.P.A. College of Arts & Culture held from 24-06-2020 to 07-07-2020 and obtained A grade.

Guest lecture / Radio / Nation Seminar/ Organized

2. **Recent Trends in Bio- Resources Conservation and Management"** (RTBCM - 2010). Organized on 15.10.2010 Department of Zoology, Aditanar College of Arts and Science, Virapandianpatnam, Tiruchendur, Tamilnadu.
3. Live feed culture - A boon to Aquaculture given in **Holy Cross Home Science College** at Thoothukudi on 28.07.2006.
4. Fresh water fish culture in the **IlayaBharatham** session at **All India Radio** Thoothukudi on 15.05.2006.

5. Live feed culture - A boon to Aquaculture given in **Holy Cross Home Science** College at Thoothukudi on July 28th 2006.
6. Basics of Molecular Biology - lecture given on Jerusalem College of Engineering Pallikaranai, Chennai on Nov 9th 2011 sponsored by DST-Inspire programme, New Delhi.
7. Techniques of Molecular Biology - lecture given on Jerusalem College of Engineering Pallikaranai, Chennai on Nov 30th 2011 sponsored by DST-Inspire programme, New Delhi.
8. Bio waste –utilization for aquaculture practices-lecture given on Jerusalem College of Engineering Pallikaranai, Chennai on July 18th 2014 sponsored by DST-Inspire programme, New Delhi.
9. Conservation of Fresh water fishes –guest lecture given on V.M.S.P Nadar College of Education, organized by Department of Biological Science Virudhunagar on April 1st 2015.
10. **Bio diversity and Conservation of Fresh water fish** -Zoology Inaugural Address delivered on 10-11-2019 in the Department of Zoology at St. Xavier’s College (A), Palayamkottai-627002.
11. **Induced breeding in Fresh water Fishes**-Zoology Association Inaugural Address delivered on 11-07-2019 in the Department of Zoology at V.V. Vanniaperumal College for Women (A), Virudhunagar-626001.
12. Organized one day Hands on Training Workshop on **“Ornamental fish culture Techniques Sponsored DBT-Star College Strengthening the UG Science students-** on March 9th 2021 Department of Zoology, V.H.N.S.N. College (Autonomous), Virudhunagar-626001.
13. Organized Intra department fish tank competition sponsored DBT -Star College Strengthening the UG Science students on March 23rd 2022 in the Department of Zoology V.H.N.S.N. College (Autonomous), Virudhunagar-626001.

Webinar-Resource Person-Online Mode:

1. Gave a speech on “Fish Biodiversity: Threats and Conservation” through online mode on 18.06.2021 in PG Department of Zoology, Aditanar College of Arts and Science, Tiruchendur.

National Level Workshop attended:

1. Attended the “**DBT- Sponsored National Workshop on Hands-on Training on Fish Cell Culture Techniques: Development and Applications**” from 18th to 23rd January,2021 at Aquatic Animal Health Laboratory, PG & Research Department of Zoology, Abdul Hakeem College (Autonomous), Melvisharam-632509.