

# CURRICULUM VITAE

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Occupation : Professor and Head, Department of Aquatic Biology and Fisheries, University of Kerala, Thiruvananthapuram – 695 581, Kerala, INDIA  
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## Current Positions

Professor and Head, Department of Aquatic Biology and Fisheries, University of Kerala  
Vice Chairman, Credit and Semester System, University of Kerala  
Chairman, Board of Studies, Aquatic Biology and Fisheries, University of Kerala  
Co-ordinator, UGC-SAP (CAS), Department of Aquatic Biology and Fisheries, University of Kerala  
President, Aquatic Biology and Fisheries Alumni Association  
Member, Board of Studies in Zoology, FMN College, Kollam; Fisheries and Aquaculture at St. Albert's College (Autonomous), Ernakulam; Marine Biology at Department of Marine Biology, Cochin University of Science and Technology  
Editor-in-Chief, Journal of Aquatic Biology & Fisheries

## Educational Qualifications

Exam Passed	Name of Institution/University	Year of passing	Subject	Division/Rank
Ph.D.	Dept. of Aquatic Biology & Fisheries, University of Kerala	1996	Science (Aquatic Biology & Fisheries)	--
M. Phil.	Dept. of Aquatic Biology & Fisheries, University of Kerala	1992	Aquatic Biology & Fisheries	Grade A
M Sc.	Dept. of Aquatic Biology & Fisheries, University of Kerala	1990	Aquatic Biology & Fisheries (Equalized to M. Sc. Zoology by University of Kerala)	I Class with Distinction, <b>I Rank</b>
B.Sc.	University College, University of Kerala	1988	Zoology (Main) Botany & Chemistry (Subsidiaries)	I Class

## Awards and Fellowships

- Kerala University Merit Scholarship, 1989-1990.
- First Rank in M. Sc. Aquatic Biology & Fisheries, 1990, University of Kerala.
- Awarded CSIR-UGC Lectureship, December, 1990 and Junior Research Fellowship of University Grants Commission, December, 1992.

- Young Scientist Award by STEC, Govt. of Kerala, 1997 in the field of Life Sciences.
- Young Scientist Award by Indian Academy of Environmental Sciences and Bangalore University at the Fourth National Seminar on Fish and Their Environment, 1998.
- Good Service Entry from Government of Kerala for the excellent conduct of Fourteenth Kerala Science Congress (GO Rt No. 78/2002/STED dated 25.3.2002)
- Letter of appreciation from Ministry of Environment and Forests, Government of India for successfully implementing the National Green Corps (school eco-club programme) in Kerala State.
- Highest research grant award (Faculty of Science and Applied Science), University of Kerala (2017)
- Academic Excellence Award, University of Kerala (2020)

### Best paper awards

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- Best paper presentation award in the National Symposium on “*Parasite taxonomy, Biodiversity and Fish Health: Environmental Impact*” organized by Department of Zoology, Andhra University, Vishakhapatnam held during 12-13 March 2010.
- Best Paper presentation award for the paper by S. Sheeba and Dr. A. Biju Kumar for the paper titled “Diversity of metazoan parasites of Indonesian Short-fin Eel, *Anguilla bicolor bicolor* McClelland (Pisces; Anguillidae) in the National Seminar on “Emerging Trends in Biodiversity Conservation and Sustainable Management” organised by Department of Zoology, Christian College, Chengannur, Kerala in 2011.
- Abhijna, U.G. and A. Biju Kumar of the Dept. have won consolation prize for their poster “Biomonitoring using the rapid bioassessment approach in organically polluted Veli and Akkulam lakes, southwest coast of India” in the Second Indian Biodiversity Congress held at Indian Institute of Science, Bangalore during 9-11 December, 2012.
- The posters titled “Biomonitoring for Pollution Assessment: A Case Study in Veli-Akkulam and Vellayani Lakes, South West Coast of Kerala” by Abhijna, U.G. and Biju Kumar, A. and “Morphology of Conch Shells (Mollusca: Strombidae) in Various Life Stages: Case Study from Lakshadweep Islands, India” by Ravinesh, R. and Biju Kumar, A. have won the best poster presentation award in the International Conference on Ecosystem Conservation, Climate Change and Sustainable Development (ECOCASD 2013) organised by the Dept. of Aquatic Biology and Fisheries, University of Kerala and Directorate of Environment and Climate Change, Govt. of Kerala during 3-5 October 2013.
- Paper titled “benthic macroinvertebrate community as indicators of health of Vellayani freshwater lake, Kerala” by U.G. Abhijna and A. Biju Kumar of the Department of Aquatic Biology and Fisheries, University of Kerala, bagged the best paper award in Fisheries and Veterinary Science in the 26<sup>th</sup> Kerala Science Congress at Wayanad during 28-31 January 2014.
- Paper titled “Invasive species along the intertidal habitats of Kerala coast, India” by Ravinesh, R. and Biju Kumar A. and “Aquatic exotics in the freshwater ecosystems of Kerala, India” by Smrithy Raj and Biju Kumar, A. presented at International Conference on Aquatic Exotics: Trends, Challenges and Policies” organised by the Department of Aquatic Biology & Fisheries, University of Kerala during 28-30 March, 2016 won best paper presentation awards.
- Paper titled “Trophic impact of invasive *Oreochromis mossambicus* (Peters, 1852) on indigenous fish groups in Veli-Akkulam Lake, Kerala, India” by Regi, S.R. and Biju Kumar A. presented at the International Biodiversity Congress held at Forest Research Institute, Dehradun during 4-6 October 2018 bagged best oral presentation award.
- Best poster presentation Award in Kerala Sciences Congress 2021 (Riyas and Biju Kumar) for the paper “Venom Proteomics of Three Common Scyphozoan Jellyfishes (*Chrysaora Caliparea*, *Cyanea nozakii* and *Lychnorhiza Malayensis*) from the Kerala Coast” in the field of Fishery and Veterinary Sciences

### Teaching Experience

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Twenty five years teaching experience in Zoology (UG and PG levels) and 12 years in Aquatic Biology and Fisheries.

Worked as Lecturer in Zoology from 25.07.1994 to 26.07.1998, as Lecturer Senior Scale from 27.07.1998 to 24.07.2003, and as Lecturer Selection Grade from 25.07.2003 to 29.06.2007.

Joined Department of Aquatic Biology and Fisheries as lecturer on 30.06.2007 and promoted as Professor in 30.06.2013.

Guest Faculty, M.Phil. programme, Department of Computational Biology & Bioinformatics, and M.Tech. programme, Dept. of Future Studies, University of Kerala

### **Research Experience**

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Twenty eight years research experience in the field of Aquatic Biology, Fisheries, Taxonomy and Biodiversity documentation.

Research Areas: Taxonomy, Molecular Systematics, Biodiversity documentation and informatics, ecology

Number of M. Phil. degrees produced: 19

Number of Ph.D. degrees produced: 14

Number of Ph.D. students currently registered: 8

Post-Doctoral Fellows: 2

### **Positions held and Administrative Experience**

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Worked as **Scientific Officer** in State Committee on Science, Technology & Environment (STEC), Govt. of Kerala, Sasthra Bhavan, Thiruvananthapuram-695 014, Kerala from 4.6.1998 to 3.6.2002. (On deputation for three years.)

Worked as **State Nodal Officer** of National Green Corps, the school ecoclub scheme of Ministry of Environment and Forests, Government of India during the period 2001-2002.

Worked as **Principal Scientific Officer** and **Member Secretary** (in-charge) of Kerala State Biodiversity Board from 28.04.2006 to 29.06.2007.

April 2011 to April 2014; 19 January 2015 to 31 March 2018; 1<sup>st</sup> May 2019 (continuing) - **Head of the Department, Dept. of Aquatic Biology and Fisheries, University of Kerala**

**Assistant Director**, Centre for Global Academics, University of Kerala (in charge of Semester-in-India programme for students of USA) (2016-17); **Director**, Centre for Global Academics, University of Kerala (2017-2019)

Served as **Member, Senate**, University of Kerala from 24.08.2011 to 23.10.2013

**Director of Research**, University of Kerala (December 2017 to March 2018)

**Dean, Faculty of Science**, University of Kerala (August 2018 to July 2019)

State Academic Director, National Children's Science Congress (Kerala State): 2018-2020

### **Editorial Board Memberships/Reviewer**

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Worked as **Chief Editor of Science India** (Monthly National Science Magazine) during 2000-2004 period.

Chief Editor, Journal of Aquatic Biology and Fisheries, University of Kerala (ISSN 2321 – 340X; UGC CARE listed)

Editor, Journal of Threatened Taxa

Review Editor, International Journal- Frontiers in Marine Science

Functioned as editor of several publications of State Committee on Science, Technology and Environment, Government of Kerala during 1998-2002 period.

Continuing as reviewer for the journals -- Journal of Experimental Marine Biology and Ecology, Zootaxa, Marine Biodiversity Records (Marine Biological Association of United Kingdom), Strombus, Marine Environmental Research (International), Current Science, Indian Journal of Geo-Marine Sciences, Journal of Marine Biological Association of India, Indian Journal of Fisheries, Journal of Threatened Taxa, etc.

## **Membership in Societies**

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### **Life Membership**

- Marine Biological Association of India
- Indian Fisheries Association, Indian Aquaculture Society
- Inland Fisheries Society of India
- Society of Environmental Education, Kerala (SEEK)
- Zoo Outreach Organisation, India
- Indian Society for Conservation Biology
- Indian Science Writers Association
- Limnological Association of Kerala
- The Society of Fisheries Technologists (India)
- Member, International Zoo Educators Association (IZE) South Asian Regional Network
- Founder Member, Centre for Innovation in Science and Social Action (CISSA)
- Member and former Executive committee member, Kerala University Teachers Association

### **Membership**

- Member, ICLARM (International Centre for Living Aquatic Resources Management) Network of Tropical Aquaculture and Fisheries Professionals (NTAFP), Metro Manila, Philippines.
- Animal Welfare Officer, Animal Welfare Board of India.

### **Membership in Expert Committees**

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- Served as member, Expert committee to prepare vision statement of University of Kerala as part of post-accreditation quality sustenance activity of NAAC (No.Ad.Misc.1/NAAC/2013 dated 23.3.2013)
- Member in the committee constituted by Kerala State Council on Science, Technology and Environment to prepare State of the Environment Report (Kerala State).
- Member, WWF India (Kerala State Office) Education Committee.
- Worked as expert committee member of Kerala Forests and Wildlife Department to identify Gene Pool Conservation Areas (GPCA) in Kerala State.
- Member, Preparation of Handbook on Thematic Area (Watershed, Agriculture, Biodiversity and Sustainable Development) for XI Plan, State Planning Board and Kerala Institute of Local Administration.
- Worked as Convener, working group constituted by Government of Kerala for finalization of Draft Environment Policy of Kerala (Environment Department, Government of Kerala).
- Worked as expert committee member in the team for Environment Impact Assessment done at Pathiramanal Island (Kerala State Biodiversity Board).

- Member, working group for State of the Environment Report Preparation for the Union Territory of Lakshadweep (Kerala State Council for Science, Technology and Environment).
- Coordinator, fish monitoring programme for the rivers of Kerala (Kallada up to Neyyar), (Kerala State Biodiversity Board).
- Member, expert committee constituted by Kerala Coastal Zone Management Authority to assess violations (several)
- Member, Evaluation of Children's Literature in Science, Kerala State Institute of Children's Literature.
- Member, Environment Research and Development Committee, Directorate of Environment and Climate Change, Govt. of Kerala (2012 onwards).
- Selection Committee Member, KSCSTE Emeritus Scientist Scheme -2013, Kerala State Council for Science, Technology and Environment, Government of Kerala
- Member, preparation and submission of monthly work report to the Hon'ble Chancellor, constituted by Vice Chancellor, University of Kerala (2014)
- Expert member, NAAC advisory council, Mahatma Gandhi College, Thiruvananthapuram (2014)
- Member, Steering Committee, Post Accreditation Quality Sustenance Activity of NAAC, University of Kerala
- Member, Innovative Fish/Shrimp culture- Study Committee, Fisheries Department, Government of Kerala
- Co-ordinator, Environmental Auditing, University of Kerala (2016)
- Executive committee member, National Childrens Science Congress, Kerala (2017), Selection Committee PhD research fellowships and Post-Doctoral fellowships (KSCSTE)
- Executive committee member, research committee, Directorate of Environment and Climate Change, Government of Kerala
- Member Core Committee of Academic Standing Committee, University of Kerala
- Expert committee member on Invasive Alien Species, constituted by the National Biodiversity Authority, Chennai.
- Governing Body Member, State Fisheries Resource Management Society (FIRMA)
- Chairman, Student Research Scheme- Expert Committee for Evaluation of projects of Kerala State Council for Science, Technology and Environment (KSCSTE) (2018)
- Member, KSCSTE Research Fellowship committee, KSCSTE (2018)
- Chairman, Project Evaluation Committee, Scheme for Promoting Young Talents In Science (SPYTiS), KSCSTE (2018)
- Member, Technical Support Group, Kerala State Biodiversity Board
- **Member in the International Union of Conservation of Nature and Natural Resources (IUCN), Switzerland, Species Survival Commission (SSC) Conservation Planning Specialist Group (2018-2020).**

### Policy Documents Prepared

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Involved in the policy document preparations: Kerala State Environment Policy; Kerala State Biodiversity Strategy and Action Plan

### Training Courses Attended

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- Attended the International Training Course, "Training Course on Fish Parasites" at the Institute of Parasitology, Academy of Sciences of Czech Republic, Ceske Budjovice, from 10 –24 March, 1992. Sponsored by International Development Research Centre (IDRC), Ottawa, Canada.

- Sixth All India Summer Research Training Programme on Molecular Techniques organized by Sengunthar Arts and Science College, Tiruchengode, Tamil Nadu during May 19- June 2, 2008.
- Pre-conference workshops on “Workshop on Project Planning and Grant Proposal Writing”, “Short Course on barcoding protocols”, Short course on data management in BOLD, GenBank and BOLI Data Portal” and “IDRC Workshop on Barcoding in Developing Countries” held in association with Third International Barcode of Life Conference at Mexico City, Mexico during 7-9 November 2009.
- Attended Workshop on “Informatics” and Short Course on “DNA Barcoding Methods” at University of Adelaide, Australia during 28-29 December 2011
- International Conference on “Sustainable Ornamental Fisheries: Way Forward” organized by School of Industrial Fisheries, Cochin University of Science and Technology, Kochi during 23-25 March 2012 (Co-chaired the session on sustainability issues in ornamental fisheries).
- “Expert consultation on Academic Partnership for Excellence and Networks in Fisheries Education and Research” held at Central Institute of Fisheries Education, Mumbai during 17-18 April 2012.
- “All Kerala Quiz Competition on Science” for High School Students organized in connection with the 24<sup>th</sup> Kerala Science Congress at the Rubber Research Institute of India, Kottayam on 28<sup>th</sup> January 2012 (As Quiz Master)
- Workshop on “Challenges for Conservation of Freshwater Biodiversity in India- Science and Policy” organised by Zoo Outreach Organisation, Coimbatore, Conservation Research Group, St. Albert’s College, Kochi and South Asia Office of the IUCN Freshwater Fish Specialist Group on 27<sup>th</sup> and 28<sup>th</sup> September 2012 at Periyar Tiger Reserve, Thekkadi.
- Eleventh Meeting of the Conference of Parties to the Convention on Biological Diversity (COP 11) (International Intra-governmental meeting) held at Hyderabad, India during 12-14 October, 2012.
- Workshop on Fisheries Data Analysis using R Statistical Package organized by Dept. of Aquatic Biology and Fisheries, University of Kerala during 21-23 April 2014.

## Research Projects

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### Completed Research Projects

1. Principal Investigator, two-year project on “Biodiversity of the Bharathapuzha (Nila River), Kerala, financed by University Grants Commission. [No.F.1.15/97 (MINOR/SRO) dated 22.12.97]. Rs. 40,000/- Report submitted.
2. Principal Investigator, project on “Parasitological and Pathological Investigations on Some Culturable Bivalves of the Kerala Coast”, financed by State Committee on Science, Technology and Environment (STEC), Govt. of Kerala. [G.O(Ms) No.85/96/STED dated 25.7.1996]. Rs. 75,000/- Report submitted.
3. Principal Investigator, project on “Helminth Diseases of the Fishes of the Kerala Coast” supported by STEC, Govt. of Kerala, under Senior Research Fellowship for Young Scientist Award Winners. Rs. 20,000/- [G.O. (Ms) No.114/97/STED dated 3.11.97]. Report submitted.
4. Principal Investigator, two-year project on “Studies on the Ecological Impact of Checkdams at Lakkidi and Peringottukurussi in Bharathapuzha River, Kerala” (Ref: F. No. 5-1(102)/2003(MRP)/SWRO dated 29.10.2003), supported by University Grants Commission. Report submitted.
5. Principal Investigator, two-year project on “Biodiversity Assessment, Nutritional Status And Economic Evaluation of Non-Target Species Wasted By Trawlers In The Fishing Harbours of Kerala”, supported by Kerala State Council on Science, Technology and Environment [Council (p) order No. 55/2004/KSCSTE dated 5.3.2004]. Rs. 643,500/- Report submitted.
6. Principal Investigator, three-year project on “Assessment of Ecological Status and Biodiversity of Bharathapuzha River, Kerala and its tributaries Upstream and Downstream Palghat Gap for Conservation and Sustainable Management”, supported by SERC, Dept. of Science and Technology, Government of India (SERC FAST Track Scheme No. SR/FT/L-21/2003 dated 6.5.2004). Rs. 715,000/- Report submitted.

7. Principal Investigator, project on preparation of field guide on “Marine Animals of Kerala Coast” supported by Kerala State Biodiversity Board (Project Period: 2010-2012). (No. 722/A1/08/KSBB-3 dated 6.11.2009) (Rs. 2.45 lakhs). Report submitted.
8. Principal Investigator, three year project on “Marine Biodiversity Informatics for Kerala” supported by Kerala State Council on Science, Technology and Environment [Council Order No. (T) 136/SRS/2008/CSTE dated 06.10.2008]. Rs. 8.008 lakhs (Project Period: 2008-2011) Report submitted.
9. Principal Investigator, three year project on “Trophic Modeling and Biodiversity Assessment of Freshwater Lakes in Kerala for Conservation and Sustainable Management” supported by University Grants Commission [UGC F.No. 34-430/2008 (SR) dated 3rd January 2009]. Rs. 8.668 lakhs (Project Period: 2009-2012). Report submitted.
10. Multi-institutional Research Project on “Biodiversity, DNA Barcoding and Phylogeny of Commercially Valuable Marine Molluscs of India” supported by Department of Biotechnology, Govt. of India (Project Period: 2011-2014). (Budget: 24.28 lakhs). Report submitted.
11. “River Bank Mapping for Vamanapuram River, Kerala” supported by Revenue Department, Govt. of Kerala (in association with Dept. of Environmental Sciences, University of Kerala (Budget: 5 lakhs) (Project Period: 2011-2012). 158/ P 3 / 2011 dated 24-02-2011 - Report submitted.

### **Ongoing Research Projects**

“Taxonomic Diversity, Venom Characterization, and Environmental Impacts of Jellyfish Blooms along Kerala Coast” supported by Kerala State Council for Science, Technology and Environment (In collaboration with Centre for Venom Informatics, Department of Computational Biology & Bioinformatics, University of Kerala) for a budget of Rs. 23.556 lakhs. (Council (P) Order No. 766/2015/KSCSTE dated 4.12.2015) (Project period: 2015-17)

“Survey and Mapping of Exotic Freshwater Biodiversity in Kerala using Geographic Information System” supported by Department of Environment and Climate Change, Government of Kerala (Collaboration with Centre for Geoinformatics, University of Kerala) for a budget of Rs. 15 lakhs (Period: 2016-17) (DOECC/E2/RD-57/3658/2015 dated 9.12.2015)

“Development of comprehensive species datasheets for Indian Marine Molluscs” supported by National Centre for Sustainable Coastal Management (NCSCM) for Rs. 9.85 lakhs (period 2017-2018)(NCSCM/Partners/CoMBINe/2016 dated 6.9.2016)

### **Publications**

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#### **Research Papers**

- a. In peer-reviewed journals: 183
- b. In seminars/workshops, etc: 114

**Books Published:** 24 (18 in English and 6 in Malayalam)

**Technical Documents/Reports:** 8

**Chapters in Books:** 34

**Edited Books:** 26

**Booklets:** 5; **Book Reviews:** 2

**Popular Articles:** about 228 (One in Hindi and others in English and Malayalam)

### **Programmes in Audio-visual Media**

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**Radio Programmes** (Science and Environment): 27

**Documentary films:** 6 (Expert commentaries)

**Television shows:** Several; resource person on science and environment issues

## List of Research Papers in Peer Reviewed Journals

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1. Biju Kumar, A. 1995. Anchor worm (*Lernaea cyprinacea* L) infestation in ornamental fishes. *Journal of Inland Fisheries Society of India*, 27(1): 95-96.
2. Biju Kumar, A. 1996\*. Comparison of the metazoan parasite faunas of *Etroplus suratensis* (Bloch) and *E. maculatus* (Bloch) in India. *Rivista di Parassitologia*, 13 (57): 115-124.
3. Biju Kumar, A. & G.C. Kearns 1996\*. *Furcuhaptor cynoglossi* n.g., n. sp., an ancyrocephaline monogenean gill parasite with a bifurcate haptor and a note on its adhesive attitude. *Systematic Parasitology*, 34: 71-76.
4. Biju Kumar, A. 1996\*. Studies on the metazoan parasite communities associated with the flatfishes (Order: Pleuronectiformes) of the southwest coast of India. *Rivista di Parassitologia*, 13 (57): 251-269.
5. Biju Kumar, A. 1996. Nematode parasites associated with the flatfishes (Order: Pleuronectiformes) of the Kerala coast. *Journal of Marine Biological Association of India*, 38(1&2): 1-6.
6. Biju Kumar, A. 1997\*. Studies on the host specificity of metazoan parasites associated with the flatfishes (Order Pleuronectiformes) of the Kerala coast. *Rivista di Parassitologia*, 14 (58): 131-141.
7. Kearns, G.C. & A. Biju Kumar 1997\*. The adhesive attitude of the gill parasitic ancyrocephaline monogenean *Bifurcuhaptor indicus*. *International Journal for Parasitology*, 27(5): 607-609.
8. Biju Kumar, A. & N.L. Bruce 1997\*. *Elthusa samariscii* (Shiino, 1951) (Isopoda, Cymothoidae) parasitizing *Samaris cristatus* Gray, 1831, off the Kerala coast, India. *Crustaceana*, 70(7): 780-788.
9. Biju Kumar, A. 1997\*. Digenetic trematode parasites of the flatfishes (Pleuronectiformes) of the Kerala coast, India. *Acta Parasitologica*, 42(3): 149-157.
10. Biju Kumar, A. 1997\*. Cestode plerocercoids associated with the pleuronectid flatfishes of the Kerala coast, India. *Rivista di Parassitologia*, 14 (58): 119-130.
11. Biju Kumar, A. 2000. Exotic fishes and freshwater fish diversity. *Zoos' Print Journal*, 15(11): 363-367.
12. Ju-Shey Ho, Il-Hoi Kim & A. Biju Kumar 2000\*. Chondracanthid copepods parasitic on flatfishes of Kerala, India. *Journal of Natural History*, 34: 709-735.
13. Biju Kumar, A. & S. Sushama 2000. Ichthyofauna of Ponnani estuary, Kerala. *Journal of Marine Biological Association of India*, 42 (1&2): 182-189.
14. Biju Kumar, A. & S. Sushama 2001. The fish fauna of Bharathapuzha river, Kerala. *Journal of Bombay Natural History of India*, 98 (3): 464-468.
15. Biju Kumar, A. 2001\*. Foulers, borers, and parasites associated with *Crassostrea madrasensis* (Preston) cultured in Ashtamudi Lake, Kerala, India. *Phuket Marine Biological Center Special Publication*, 25(1): 59-66.
16. Biju Kumar, A., S. Sushama & T. Biswas 2001. Molluscs collected from the Bharathapuzha river. Kerala. *Journal of Inland Fisheries Society of India*, 33 (2): 68-69.
17. Biju Kumar, A. 2004. Records of Leith's soft shell turtle, *Aspideretes leithi* (Gray, 1872) and Asian giant soft shell turtle, *Pelochelys cantorii* (Gray, 1864) In Bharathapuzha river, Kerala. *Zoos' Print Journal*, 19 (4): 1455 (with web supplement).
18. Sushama, S., Tresa Radhakrishnan & A. Biju Kumar 2004. Distribution of fishes in the Nila River. *Indian Journal of Fisheries*, 51 (3): 385-387.
19. Sushama, S., Tresa Radhakrishnan & A. Biju Kumar 2005. Distribution of plankton in the Nila River. *Journal of Inland Fisheries Society of India*, 37 (2): 75-79.
20. Biju Kumar, A. 2005. Biodiversity indices. *Millennium Zoology*, 5(1): 47-53.
21. Biju Kumar, A., Sushil Kumar, G.R. Deepthi & V. Sasikala 2006. Diversity of molluscs in the by-catch of trawlers at Neendakara fishing harbour, Kerala. *Millennium Zoology*, 6 (1): 20 - 28.
22. Biju Kumar, A. & G.R. Deepthi 2006. Trawling and by-catch: Implications on marine ecosystem. *Current Science*, 90 (7): 922-931.



23. Biju Kumar, A. 2006. A checklist of Avifauna of the Bharathapuzha River basin, Kerala. *Zoos' Print*, 21 (8): 2350-2355.
24. Jayalakshmi, R., G.R. Deepthi, K.G. Padmakumaran Nair, & A. Biju Kumar 2006. Proximate composition of *Scylla serrata* (Forsk.) and *Portunus sanguinolentus* Herbst (Brachyura: Portunidae). *BioResearch*, 2: 42-51.
25. Biju Kumar, A., K.R. Sivapriya, & S. Mithun 2006. Hermit crabs of Kerala coast, with special reference to morphometric relations between *Diogenes miles* (Herbst) and its host shell *Olivancillaria gibbosa* (Born). *Millennium Zoology*, 7 (1): 118-23.
26. Biju Kumar, A., Kurian Mathew Abraham & Koshy Thomas 2006. Impact of Lakkidi checkdam on the nutrient dynamics of Bharathapuzha river, Kerala. *Rational Discourse*, 12 (172): 20-29.
27. Sushama, S., Tresa Radhakrishnan & A. Biju Kumar 2006. Environmental problems of Nila (Bharathapuzha), the longest river in Kerala. *Indian Journal of Multidisciplinary Research*, 2 (1): 91-94.
28. Biju Kumar, A., M. Susheel Kumar, G.R. Deepthi, & S. Mithun 2007. Sea snakes associated with trawl bycatch of Kerala coast, India. *Cobra*, 65 (1): 1-4.
29. Biju Kumar, A., M. Sushil Kumar, S.M. Raffi & S. Ajmal Khan 2007. Diversity of brachyuran crabs associated with trawl by-catch in Kerala coast, India. *Indian Journal of Fisheries*, 54 (3): 283-290.
30. Biju Kumar, A., K.M. Abraham and D. Soumya. 2008\*. Morphometry and meristics of longnose seahorse, *Hippocampus trimaculatus* (Actinopterygii: Syngnathidae), from Kerala, south-west coast of India. *Acta Ichthyologica et Piscatoria*, 38 (2): 149-155.
31. Biju Kumar, A. and K.M. Abraham 2008\*. Impact of check dams on the hydrography of a tropical river, Bharathapuzha, Kerala, India. *Ecology and Noospherology*, 19 (1&2): 11-18.
32. Biju Kumar, A. 2008. First record of Nile tilapia, *Oreochromis niloticus* (Linnaeus) (Pisces Cichlidae) from Kerala. *Journal of Inland Fisheries Society of India*, 40 (2): 68-69.
33. Biju Kumar, A. & Deepthi, G.R. 2009. Diversity of flatfishes (Pisces: Pleuronectiformes) of Kerala, south-west coast of India, with notes on two rare species. *Indian Journal of Fisheries*, 56 (3): 211-214.
34. Biju Kumar, A. and Kurian Mathew Abraham 2009. Impact of Peringottukurissi check dam on hydrography of Bharathapuzha river, Kerala. *Journal of Inland Fisheries Society of India*, 41 (1): 1-8.
35. Krishnakumar, K., Rajeev Raghavan, Prasad, G., Bijukumar, A., Mini Sekharan, Benno Pereira and Anvar Ali. 2009. When pets become pests – exotic aquarium fishes and biological invasions in Kerala, India. *Current Science*, 97 (4): 474-476.
36. Bijukumar, A. and Deepthi, G. R. 2009. Mean trophic index of fish fauna associated with trawl bycatch of Kerala, southwest coast of India. *Journal of Marine Biological Association of India*, 51 (2):145-157.
37. George S., Meenakshi K and Bijukumar A. 2010. Molecular taxonomy of marine mammals stranded along Kerala coast, India. *Current Science*, 100 (1): 117-120.
38. Reshmi, R. and A. Bijukumar 2010\*. First report of the hermit crabs *Coenobita brevimaus* and *Coenobita rugosus* (Crustacea: Decapoda: Anomura) from the Indian Coast. *Marine Biodiversity Records (Marine Biological Association of United Kingdom)*, 3: e121, 1-4.
39. Deepa, R.P. & Biju Kumar, A. 2010. New records of the seacucumbers *Holothuria (Semperothuria) imitans* Ludwig and *Stichopus herrmanni* Semper (Echinodermata: Holothuroidea) from the southwestern coast of India. *Journal of Threatened Taxa*, 2(2): 712-715.
40. Bijukumar, A. and R. Ravinesh (2011). Will shoreline armouring support marine biodiversity? *Current Science*, 100: 1463.
41. Bijukumar, A. and Ashok Captain (2011). Recent records of the endemic Kerala mud snake, *Enhydris dussumierii* (Duméril, Bibron & Duméril, 1854) from India. *Current Science*, 100: 928-932 (Cover story).
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## Papers presented in Seminars

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1. Biju Kumar, A. 1996. Freshwater ornamental fish resources of Kerala. Paper presented at the fourth Indian Fisheries Forum 24-28 November, 1996, Cochin, Kerala (Abstract No.5.11).
2. Biju Kumar, A. 1996. Diseases and parasites of *Etroplus suratensis* (Bloch) cultured in brackishwater ponds. Paper presented at the National Conference on Aquaculture, 18-20 December, 1996, Palayamkottai, and Tamilnadu, India (Abstract No.20. 4).
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5. Biju Kumar, A. 1998. Parasitological and pathological investigations on the pleuronectid flatfishes of the Kerala coast. Paper presented at the Fourth National Symposium on Fish and their Environment, Bangalore University, January 21-23, 1998 (*Paper selected for the young scientist award by the Indian Academy of Environmental Sciences*).
6. Biju Kumar, A. 1998. The impact of exotic fishes on aquatic biodiversity (In Malayalam). Paper presented at Eighth Swadeshi Science Congress, November 5-7, 1998 at St. Joseph's College, Alappuzha, Kerala.
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13. Biju Kumar, A. 2003. Water, Environment and Politics. *Earth, Environment and Us: Status and Trends*. National Seminar organized by P.G. Dept. of Geology, MES Ponnani College, Ponnani, Kerala on January 13, 2003.
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### **Seminars/workshops Organized**

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#### ***From 2008 onwards***

1. Training Workshop on "Taxonomy of Echinodermata" organised by Department of Aquatic Biology and Fisheries, University of Kerala in association with Kerala State Biodiversity Board during 26th -29th February 2008 (Organizing Secretary).
2. AMSCO 2008, National Conference on "Aquatic Microbiology: Status, Challenges and Opportunities" organised by Department of Aquatic Biology and Fisheries, University of Kerala during April 24-25, 2008 (Organizing Secretary).
3. Workshop on "Research Methodology" organized by Rajiv Gandhi Chair in Contemporary Studies, Cochin University of Science and Technology and Department of Aquatic Biology and Fisheries, University of Kerala on 27th September 2008 (Organizing Secretary)
4. Annam National Food and Agro-biodiversity Festival and National Seminar Series organized by Centre for Innovation in Science and Social Action (CISSA) and Government of Kerala at Priyadarsini Planetarium Conference Hall, Thiruvananthapuram during December 28-30, 2008 (Secretary).
5. Indian Science Congress hosted by Indian Space Research Organisation and University of Kerala held at Thiruvananthapuram during 3-7 January 2010 (Committee member).
6. National Seminar on "Health, Food and Agro-biodiversity Changing Paradigms. 12-14 February 2010, Calicut, Kerala (Secretary).
7. National Seminar on "Future of Indian Fisheries: Emerging Policy Paradigms" 19th March 2010 (Organising secretary)
8. Children's Science Congress organized by Kerala Shastra Sahithya Parishad and Kerala State Biodiversity Board held at Kerala University, Kariavattom campus during 16-17 April, 2010 (Organising Committee Member).
9. "Let us Talk Biodiversity" workshop for school children at Science and Technology Museum, Thiruvananthapuram on 5th June, 2010 (Organising Secretary).
10. First Indian Biodiversity Congress organized by Centre for Innovation in Science and Social Action, Kerala State Biodiversity Board and University of Kerala at Thiruvananthapuram during 27-31 December 2010 (Organising Secretary).
11. INCULCATE 2010- 2011 (Science Propagation Programme of Government of Kerala for the school children), 6-9 January 2012 organised by University of Kerala and Kerala State Science & Technology Museum (Joint Convenor)
12. Workshop on "Thesis Writing and Paper Publishing" (18th June 2011). Organised in association with State Inter-University Centre of Excellence in Bioinformatics (SIUCEB) for the M.Sc. and M.Phil. students of University of Kerala.
13. One day workshop on Malayalam Names for Freshwater Fishes of Kerala christened "Meenu Oru Peru" (30th September 2011) at Govt. Guest House, Thiruvananthapuram organised in collaboration with Kerala State Biodiversity Board to finalise the Malayalam names of fresh water fishes of Kerala and to compile all vernacular names of the existing species.
14. Workshop on "Sustainable Management of Ornamental Fish Resources of Kerala" (21st November 2011) on the occasion of the World Fisheries Day on 21st November 2011, Department organised a Brainstorming Workshop on "Sustainable Management of Ornamental Fish Resources of Kerala".
15. Symposium on "Sustainable Management of Biodiversity using Science and Technology" organized by National Academy of Sciences (NASI) and University of Kerala at University of Kerala during 24-26 November 2011 (Joint Convener).

16. INCULCATE 2011- 2012 (Science Propagation Programme of Government of Kerala for the school children), 17-20 February 2012 organised by University of Kerala and Kerala State Science & Technology Museum (Joint Convener)
17. Workshop on “Emerging Statistical Tools in Life Sciences”, Department of Aquatic Biology and Fisheries, University of Kerala during 11-13 April 2012 (Chairman).
18. Three-day National Seminar was on “Emerging Trends in Indian Aquaculture (Etia 2013), in association with State Fisheries Department during 21-23 March 2013 at the Department of Aquatic Biology and Fisheries in collaboration with Fisheries Department, Govt. of Kerala (Convener)
19. Training Workshop on Taxonomy of Brachyuran Crabs organized by the Department of Aquatic Biology and Fisheries during 9-11 January 2013 (Co-ordinator)
20. International Conference on Ecosystem Conservation, Climate Change and Sustainable Development (ECOCASD 2013) organized in association with Department of Environment and Climate Change, Govt of Kerala and Ambo University, Ethiopia during (Organising Secretary)
21. Workshop on Fisheries Data Analysis Using R Statistical Package during 21 – 23 April 2014 (Chairman)
23. Inculcate 2014. Science Propagation Programme of Government of Kerala organised by Kerala State Science & Technology Museum and University of Kerala for school students during 27 September 2014 (Dr. A. Bijukumar, Convener)
24. National Seminar on “Conservation and Management of Mangrove Ecosystem with Special Reference to its Faunal Diversity” organized by Dept. of Zoology, NSS Hindu College, Changanacherry, Kerala and Department of Aquatic Biology and Fisheries, University of Kerala during 3-4 December 2014.
25. Third Indian Biodiversity Congress organized by Centre for Innovation in Science and Social Action (CISSA), CPR Environmental Education Centre (CPREEC), Chennai; School of Public Health, SRM University, Chennai and Navdanya, Delhi at SRM University Chennai during 17-20 December 2014 (Dr. A. Bijukumar, Organising Secretary)
26. One-day seminar on “Water for Sustainable Development” on 30th March 2015 at Department of Aquatic Biology and Fisheries, University of Kerala.
27. Ocean Awareness workshop titled “Kadalarivu” on 8th June 2015 at St Rock’s School, Sanghumugham, Thiruvananthapuram in association with WWF India and Friends of Marine Life.
28. Seminar on “Challenges of Coastal Governance in Kerala” in association with Kerala State Council for Science, Technology and Environment and Centre for Policy Research, New Delhi on 4th December 2015 in the Conference Hall, Department of Botany, University of Kerala (Organising Secretary).
29. International Conference on Aquatic Exotics: Trends, Challenges and Policies” at Thiruvananthapuram, Kerala, India during 28-30 March 2016 (Convenor).
30. Capacity Building Workshop on Animal Taxonomy” for Post-Graduate Students and young researchers” in association with Kerala State Council for Science, Technology and Environment during 23-24 March 2017 (Convenor).
31. “Workshop on Coastal and Marine Biodiversity Documentation” in association with Kerala State Council for Science, Technology and Environment for Civil Society Organisations and Citizen Scientists during 25-26 March 2017 (Convenor).
32. Launch workshop on “Campus leaders for Sustainable Development” organized in association with the Regional Centre of Expertise (RCE) Thiruvananthapuram, acknowledged by United Nations University at Senate Chamber of University of Kerala on 23rd December 2017.
33. International Biodiversity Congress held at Forest Research Institute, Dehradun during 4-6 October 2018 organised by CISSA, Forest Research Institute and Navdanya (Organising Secretary)
34. International Conference on Rivers for Future (RFF, 2020), 5 – 7 February, 2020, Department of Aquatic Biology and Fisheries, University of Kerala, Thiruvananthapuram.
35. Annual National Conference on Sustainable Ecosystems, Aquaculture, Fisheries and Fisherfolk (ANCOSEAFF, 2019). 9-10 January, 2020, Department of Aquatic Biology and Fisheries, University of Kerala.

36. Webinar on “POST-COVID ERA: MAINSTREAMING BIODIVERSITY AND NATURE IN DEVELOPMENT AGENDA” organised jointly by the International Biodiversity Congress (IBC) of CISSA and Navdanya on International Day for Biological Diversity (22nd May 2020).
37. The Webinar is in ZOOM platform and there will be 500 attendees and over 2000 students watching it live in FaceBook. We are planning it at 10 am on Monday, the 8th October 2020. Kindly let me know your convenience.
38. Webinar "VOYO (Voice of Youth for Oceans)" organized by the Department of Aquatic Biology & Fisheries, University of Kerala on June 8, 2020.
39. Webinar for School Children for ocean awareness - "KADALARIVU"- organized by the Department of Aquatic Biology & Fisheries, University of Kerala on June 8, 2020.
40. Biodiversity and Sustainable Development: Civilizational Dialogue Series organised jointly by International Biodiversity Congress (IBC) of CISSA (Centre for Innovation in Science and Social Action), University of Kerala (Dept of Aquatic Biology) and Navdanya. Launched on 3rd October 2020.

### Invited lectures (From 2007 onwards)

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1. “Environment and Sustainable Development” in the **National Seminar** on “Current Status of Environmental Issues- Strategies for Control and Management” organized by TKM College of Arts and Science, Kollam on January 22, 2007.
2. “Challenges of Climate Change”. Lecture at the Environment Day Celebrations organized by Department of Civil Engineering, Government Engineering College, Thiruvananthapuram on 5<sup>th</sup> June 2007.
3. “Climate Change and Coastal Ecosystems- Indian Perspective” in the National **Seminar** on “Global Warming and Coastal Ecosystems” organized by Suganthi Devadason Marine Research Institute in Collaboration with IUCN and CORDIO on June 8, 2007 at Tuticorin, Tamil Nadu.
4. “Salient Features of Biodiversity Act and its implications in Kerala” in the workshop for NGOs on “Biodiversity Conservation and Sustainable Development” organized by CPR Environmental Education Centre, Chennai and the British High Commission, New Delhi at Thiruvananthapuram on June 30, 2007.
5. “Environment and Sustainable Development” in the Seminar “BIOTRENDS 2007-2008” organized by Department of Zoology, SN College, Kollam on July 10, 2007.
6. “Protection of Ozone Layer” in the Ozone Day Celebrations organized by Worldwide Fund for Nature (WWF) and Kerala Forests and Wildlife Department at Vanasree Auditorium, Thiruvananthapuram on 17 September 2007.
7. “Control of Pollution in the Rivers of Kerala” in the seminar organized by Kerala River Protection Council at NSS Women’s College, Karamana, Thiruvananthapuram in Connection with River Day Celebrations on 3 October 2007.
8. “Biological Impacts of Sethusamudram Project” in the **National Seminar** on “Possible Impacts of Sethusamudram Project Along Kerala Coast- A Scientific Appraisal” organized by Rajiv Gandhi Chair in Contemporary Studies, Cochin University of Science and Technology, Cochin on October 18, 2007.
9. “Science for Sustainable Development” inauguration and key-note lecture in connection with inauguration of the Science Club of Mahatma Gandhi College, Thiruvananthapuram on 7 December 2007.
10. “Biodiversity Conservation and Sustainable Utilization: Role of People’s Biodiversity Registers” in the **International Conference** on Biodiversity Conservation and Management (BIOCAM 2008), organized by Rajiv Gandhi Chair in Contemporary Studies, CUSAT, Cochin on February 4, 2008.
11. “Research Methodology – Writing, Publishing and Presenting Science” in the seminar on “Recent Trends in Research Methodology, Biotechnology and Endocrinology” organised by Department of Zoology, Govt. Women’s College, Thiruvananthapuram on March 4, 2008.
12. “Animal Biodiversity” in the State-level Launching of the Ecoclubs and Seminar on Biodiversity” organised by Kerala State Biodiversity Board, Government of Kerala on March 11, 2008.

13. "Wetland Biodiversity Conservation in Kerala Context" in the **National Symposium** on "Conservation and Management of Aquatic Ecosystems" organised by PG Department of Aquaculture and Biochemistry, Ernakulam on March 27, 2008.
14. "The Ecology of Rivers in Kerala- The Present Status" in the "One Day Awareness Programme on River Conservation for Revenue Officers" organised by Institute of Land and Disaster Management, PTP Nagar, Thiruvananthapuram on May 1, 2008.
15. "Environmental Education for Sustainable Development" in the Environment Day Celebrations at Christ Nagar College of Education, Thiruvallam, Thiruvananthapuram on June 26, 2008.
16. "Pollution of Water, Rivers and Sea: The impacts of Pollution" in the seminar on "Environmental Protection for Protection of Life" organised by Ithihadu Shubbanil Mhjahideen Kerala State Committee at Press Club, Thiruvananthapuram on 28 June, 2008.
17. "Community Participation in River Management" in the National Seminar on "Environmental Degradation of Pampa River- Causes, Consequences and Management Strategies. Organised by Pampa Parirakshana Samithy and Department of Zoology, St. Thomas College, Kozhencherry on October 17, 2008.
18. "Aquaculture, Environment and Biodiversity" in the **National Seminar** on "Aquaculture Diversification" organized by Department of Aquaculture and Fishery Microbiology, MES College, Ponnani on October 21, 2008.
19. "Ornamental Fish Culture" in the training programme for aquaculture co-ordinators, in connection with Matsya Keralam 2008 programme held at Thiruvananthapuram on December 1, 2008.
20. "Status, Threats and Conservation of Olive Ridley Turtles" in the State-level Workshop on "Olive Ridley Turtle Conservation" organized by World Wild Fund for Nature- India and Kerala State Forests and Wildlife Department at Thiruvananthapuram on January 6, 2009.
21. "Conservation and Management of Fishes in the protected areas of Kerala" in the in-service training of foresters, organized by the Forest Department, Government of Kerala on January 27, 2009.
22. "Vanishing Wetlands and Depleting Biodiversity" in the one day workshop on "Vanishing Wetlands and Depleting Biodiversity" organized by Department of Zoology, St. Stephen's College, Pathanapuram on March 4, 2009.
23. UGC Special Lectures on "Marine Biodiversity Conservation: Challenges and Opportunities" and "Gloablisation and Fisheries" at Centre for Advanced Study in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu on 1st April 2009 (UGC Special Assistance Programme).
24. "Marine Bioinvasion" – Invited presentation in the National Seminar on "Invasive Alien Species" organized by Kerala State Biodiversity Board at Thiruvananthapuram on 22 May 2009.
25. "Theory of Evolution by Darwin and Biology"- Lecture delivered in the Seminar on "Theory of Evolution- History and Science" organized by Kerala Sasthra Sahitya Parishad and University College, Thiruvananthapuram on 24 November 2009 in connection with Science Year 2009.
26. One day seminar on "Ornamental fishes and Aquarium Management" held at the Department of Zoology, University College, Thiruvananthapuram on 9th January 2010. Invited presentation: Freshwater aquarium fishes and their aquarium management.
27. National Seminar on "Recent Issues in Wild Life Trade and Conservation" organized by the Department of Zoology, St. Aloysius College, Elthuruth, Thrissur on 22nd January 2010. Invited presentation: Trade of marine and freshwater fish fauna of Kerala.
28. National Seminar on "Sustainable Water Governance" held at Adi Shankara Institute of Engineering and Technology, Kalady on 30 January 2010. Invited presentation: Wetland Conservation and Water Governance.
29. Seminar on "Recent Trends in Aquaculture" organized by the Post Graduate and Research Department of Zoology, Catholicate College, Pathanamthitta on 18 February 2010. Invited presentation: Environment, Aquaculture and Biodiversity.
30. Children's Science Congress organized by Kerala Shastra Sahitya Parishad and Kerala State Biodiversity Board held at Kerala University, Kariavattom campus during 16-17 April, 2010.

31. Expert Consultation on Marine Biotechnology and Biodiversity Conservation (MBBC) jointly organized by National Bureau of Fish Genetic Resources (NBFGR), Lucknow, National Institute of Oceanography (NIO), Goa and Aquatic Biodiversity Conservation Society (ABCS), Lucknow during 21-22 April 2010 at International Centre, Goa. Invited presentation: Impact of Global Warming on Marine Fisheries in India and the mitigation measures.
32. Training programme on "Marine Ornamental Fish Culture" held at Vizhinjam Research Centre of CMFRI, Thiruvananthapuram on 20-7-2010. Topic: Indigenous Ornamental Fishes.
33. One day Regional Seminar on "Ornamental Fish Culture and Aquarium Keeping" on 28th July, 2010 held at All Saints' College, Thiruvananthapuram Invited presentation: Ornamental Fish Culture and Aquarium keeping.
34. National Seminar on "Biodiversity and Sustainable Development" organized by Sree Ayyappa College for Women, Nagercoil, Kanyakumari on 02 October 2010. Invited presentation: Western Ghats Biodiversity- Challenges for Conservation.
35. Presented an invited lecture on "Marine Fisheries in Kerala: Resources, Management and Environment" at the "Third International Congress on Kerala Studies" on 2nd January 2011 organised by AKG Centre for Research and Studies, Thiruvananthapuram, Kerala.
36. Delivered invited lecture on "Biodiversity Conservation: Need for Ecosystem Approach" on 12th February 2011 in the "International Conference on Ecosystem Conservation and Sustainable Development" organised held in Ambo University, Ethiopia.
37. Invited presentation on "Biodiversity of Kerala: Status and Threats" on 5th August 2011 in the "Kerala Environment Summit" organised by Gandhian Study Centre, University of Kerala at Thiruvananthapuram.
38. Invited presentation on "Biodiversity Conservation and Sustainable Management: Looking Beyond 2010" on 26th August 2011 in the National Seminar on "Emerging Trends in Biodiversity Conservation and Sustainable Management" organised by Department of Zoology, Christian College, Chenagnur, Kerala.
39. Invited presentation on "Climate Change Education: Approaches, Strategies and Action Plan" on 28th September 2011 in the International Seminar on "Awareness of Environment in Sanskrit Literature from Vedic to Modern Period" organised by Department of Sanskrit, University of Kerala.
40. Invited presentation on "Ecological Status and Conservation of Rivers in Kerala: Need for an Action Plan" on 2nd October 2011 at Govt. Higher Secondary School, Pattambi, Kerala in connection with the Kerala River Protection Day, organised by Kerala River Protection Council.
41. Invited presentation on "Dna Barcoding: Resurgence of a New Era in Documenting Life" on 16th October 2011 in the National Conference on "Recent Advancements in Life Sciences (SAMHITHA XI)" organised by Department of Biotechnology, Sasthra University, Tanjavur, Tamil Nadu.
42. Invited presentation on "Biodiversity, Food Security, Climate Change and Human Rights in the Context of Sustainable Development Paradigms" on 21st October 2011 in the National Seminar on "Climate Change: New Challenges in Human Rights" organised by NSS Hindu College, Chanaganacherry, Kerala.
43. Invited presentation on "Biodiversity Conservation and Sustainable Development on 30th December 2011 in the "First Meet of the National Energy Parliament (India)", Thiruvananthapuram organised by Global Energy Parliament.
44. Invited presentation on "Marine Biodiversity of India: Status and Concerns" on 16th March 2012 in the National Seminar on "Recent Trends and Future Prospects of Biodiversity and Conservation" organised by the Dept. of Botany and Zoology at Sree Narayana College, Punalur from 15-16 March 2012.
45. Invited presentation on "Sustainable aquaculture practices" in the National Seminar on "Emerging Trends in Aquaculture, Harvesting Technology" organised by Department of Zoology, Mar Thoma College, Thiruvalla, on 7th March 2012.
46. Invited presentation on "Ecological status of Rivers of Kerala" in the workshop on "Conservation of Rivers and Lakes 2012" organized by Environmental Resource Centre, Poovathoor, Thiruvalla and Alappuzha press club on 5th July 2012 at Alappuzha, Kerala.



47. Invited presentation on “Sustainable Economy and Development” in the seminar in connection with World Environment Day, 6th June 2012 at Bharatheeya Vichara Kendram, Thiruvananthapuram.
48. “Ecological status of Rivers of Kerala” in the workshop on “Conservation of Rivers and Lakes 2012” organized by Environmental Resource Centre, Poovathoor, Thiruvalla and Alappuzha press club on 5th July 2012 at Alappuzha, Kerala.
49. “Biodiversity Informatics” in the XXI Refresher Course in Environmental Sciences organised by UGC Academic Staff College, University of Kerala on 5th October 2012.
50. Inaugurated the “Training on Marine Ornamental Fish Breeding & Aquarium Keeping” organised by Vizhinjam Research Centre of Central Marine Fisheries Research Institute (Indian Council of Agricultural Research), Trivandrum on 16th October 2012 and delivered a lecture on Freshwater Aquarium Keeping.
51. Chaired technical session on “My Village Biodiversity” organised in connection with “LAKE 2012- National Conference on Conservation and Management of Wetland Ecosystems”, 08th November 2012 organised by School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala.
52. Presentation on “Biodiversity Vs. Biotechnology” in the National Seminar on “Biotechnology Vs. Biodiversity: Challenges and Options” organised by Department of Zoology, Sree Narayana College, Kollam on 21 November 2012 .
53. Chaired session on “Wildlife Corridors and Connectivity” in the International Law Conference on Conservation of Forests, Wildlife and Ecology organised Law Academy, Thiruvananthapuram by Kerala Law Academy and Centre for Advanced Legal Studies, Thiruvananthapuram on 16.12.2012.
54. Presentation on “Water conservation and climate change: Issues and Challenges” in the National Seminar on “Water Management: Mounting Challenges and Responses” organised by C. Achutha Menon Study Centre and Library, Thiruvananthapuram on 22 December 2012; Chaired session on Water Conservation.
55. Presented a paper on “Biodiversity of Inland Waterways” in National Seminar ‘Pamaram’ – Inland Waterways of Kerala: History, Culture and Biodiversity” organised by International Kerala Study Centre, Department of Aquatic Biology and Fisheries and Centre for Bioinformatics and Computational Biology on 19th December 2012.
56. “Climate Change: Implications on Biodiversity and Ecosystems”. Invited presentation at SN College, Varkala, Kerala on 18th January 2013.
57. Inauguration and key-note address: National Seminar “Environmental Security for Sustainable Development” organized by Sree Ayyappa College for Women, Chunkankadai, Kanyakumari Dt., Tamil Nadu on 15th March 2013.
58. Invited talk on “Marine Biodiversity and DNA Barcoding” at Temasek Polytechnic, Singapore on 1st June 2013.
59. Invited talk on “Environment, Biodiversity and Food” in the National Seminar and Festschrift in honour of Professor M.K. Prasad on World Environment Day, 5th June 5 2013.
60. Modern tools in biodiversity conservation (Refresher course in Life Sciences). UGC-Academic Staff College, University of Kerala on 2.7.2013.
61. Invited talk on “Wetland biodiversity” in the in-service course for forest officers organised by Kerala Forest Research Institute, Peechi, Thrissur on 18th July 2013.
62. Invited talk on “Ornamental fish culture in India: Problems and Prospects” in the International Seminar on Advances in Aquaculture Technologies organised by Department of Zoology, All Saints College, Thiruvananthapuram on 19 July 2013.
63. Lecture on “Western Ghats, Environment and Development” in the Interdisciplinary Refresher course at UGC-Academic Staff College, University of Kerala on 11. 09.2013.
64. Invited lecture on “Culture, Heritage and Food in India: Changing Paradigms” at the Kerala Environment Congress organised by Centre for Environment and Development at Thiruvananthapuram on 10th October 2013.

65. Lecture on “Restoration of riverine ecosystems” in the National Seminar on Restoration of Ecosystem with Special Reference to Bharathapuzha organised by Dept. of Zoology, Sree Neelakanta Govt. Sanskrit College, Pattambi, Kerala on 4th December 2013.
66. Invited talk on “DNA Barcoding: Scope And Potentials For Promoting Biodiversity Science” at the International Conference on Biotechnology and Human Welfare organised by Sasthra University, Tanjavor, Tamil Nadu on 6th December 2013.
67. Inauguration and key-note address on Development and Biodiversity at the National Seminar on Biodiversity Conservation: Issues and Challenges, 18th December 2013 at Baby John Memorial Government College, Chavara, Kollam, Kerala.
68. Invited presentation on the theme topic “Traditional Knowledge in Marine Fisheries Sector of Kerala” at the Kerala Science Congress held at Kerala Veterinary and Animal Sciences University, Pookot, Wayanad on 29th January 2014.
69. Invited paper on Dams and Development and Invasive Species and Aquatic Biodiversity at CMS VATAVARAN 2014 – International Environment & Wildlife Film Festival and Forum on February 1 and 2, 2014 at Indira Gandhi National Centre for the Arts (IGNCA) Lawns, Janpath, and New Delhi.
70. Invited presentation on “Mainstreaming climate change in marine biodiversity conservation: Scope and challenges for India” at the National Seminar on ‘Climate Change and Marine Ecosystems (CCME 2014) on 20 March 2014 organized by School of Marine Sciences, CUSAT, Cochin.
71. Introductory lecture in the Workshop on Conservation of Western Ghats organized by Bharatheeya Vichara Kendram, Thiruvananthapuram on 01 June 2014.
72. Key-note address in the One Day State Level Seminar on “Small Islands and Climate Change” organized by Kerala University College of Teacher Education, Kumarapuram, Thiruvananthapuram on 3 June 2014 (Topic: Environmental Conservation and Role of Islands).
73. Key-note address at the World Environment Day Celebrations organized by Mahatma Gandhi College, Thiruvananthapuram on 19 June 2014 (Topic: Small islands and climate change).
74. Presentation on “DNA barcoding” at UGC-Academic Staff College, University of Kerala on 22 July 2014 for the participants of the XIX Refresher Course in Life Sciences.
75. Invited lecture on “Ornamental fish trade: Challenges and opportunities” at the National Seminar cum Workshop on “Emerging Issues in Ornamental Fish Culture EIOFC- 2014” on 24 December 2014 organised by Department of Zoology, Govt. College for Women, Trivandrum, Kerala.
76. Invited lecture on “Mangrove biodiversity” at the National Seminar on “Conservation and Management of Mangrove Ecosystem with Special Reference to its Faunal Diversity” organized by Dept. of Zoology, NSS Hindu College, Changanacherry, Kerala on 3 December 2014.
77. Served as the resource person of the XXIII Refresher Course in Environmental Sciences on 22 January 2015
78. “Wetlands for Future” at the Wetland Day Celebrations organised by the Nature Club, Department of Zoology, University of Kerala on 2nd February 2015.
79. Key-note address on the topic “Biodiversity and Development” in the Seminar on “Recent Trends in Biodiversity Studies” organized by Sree Narayana College, Varkala on 13th March 2015.
80. “The Future We Want: Sustainable Solutions for Conservation” in the National Seminar on Environment and Development Issues in Kerala organized by the Department of Economics on 30th March 2015.
81. Lecture on Environmental Issues of Thiruvananthapuram district in the Workshop on “Biodiversity conservation in Kerala” on 22 May 2015 at Thrissur organised by The Salim Ali Foundation at Thrissur.
82. Paper entitled “Environmental Issues of Thiruvananthapuram District, Kerala” at the workshop on “Biodiversity Conservation in Kerala – Major Issues” organised by Salim Ali Foundation at C. Achuthamenon Hall, COSTFORD, Trichur on 22 May 2015 and “Research Ethics and Plagiarism” in the “Workshop on Research Methodology” organized by Research Students’ Union and Internal Quality Assurance Cell, University of Kerala on 29 May 2015.

83. Lecture on Research Ethics and Plagiarism at the Workshop on Research Methodology organised by the Research Students' Union and IQAC on 29th May 2015.
84. Lecture on "Oceans Around Us" at St Roch's School, Sanghumughom on 8th June 2015.
85. Chaired the session "Geographical Indications and Intellectual Property Rights" in the National Workshop on Human Rights Dimension of Intellectual Property Rights organised by Department of Law, University of Kerala on 12 June 2015.
86. Invited lecture on "New Fisheries Policy for Kerala" in the National Seminar on Sustainable Development of Kerala organised by Malayalam University on 25 June 2015.
87. Key-note address in the workshop on "Sustainable Agricultural Practices and Conservation of Endangered Indigenous Cattle Breeds" organized by Department of Zoology, CMS College, Kottayam on 4th September 2015.
88. Keynote lecture on Modern Trends in Biodiversity Conservation and Taxonomy in the National Seminar on "Understanding Biodiversity: Progress and Problems" organized by Department of Zoology, NSS College, Ottapalam on 9th September 2015.
89. Invited lecture on "Inland fishery resources" in the National Seminar on "Fishery Resources: Implications and Conservation Programmes" organised by Post Graduate and Research Department of Zoology, St. Thomas College, Kozhencherri on 30 September 2015.
90. "Climate Change Education for Sustainable Development" in the International Symposium on Science Education and Sustainable Development organised by Dept. of Botany, University of Kerala and Hard Rain Project, Canterbury Christ Church University, UK at University of Kerala on 22 January 2016.
91. "Sustainable blue economy and marine biodiversity: A policy outlook" in the International Conference on "Towards a sustainable Blue economy: Production, Strategies and Policies" organised by Kerala University of Fisheries and Oceans Studies at Radisson Blue, Kochi on 4th February 2016.
92. Keynote address on the topic "Mainstreaming climate change in marine biodiversity conservation: Scope and challenges for India" in the national seminar on "Marine Bioresources: Prospects and Threats" organised by St. Mary's College, Tuticorin, Tamil Nadu on 11 February 2016.
93. "Environmental DNA for biomonitoring" in the National Seminar on "Recent Trends in Wetland Pollution Studies using Bio-Monitoring Protocol" organised by P.G. and Research Department of Zoology, N.S.S. College, Pandalam on 23 February 2016.
94. "Environmental DNA for Ecosystem Health Monitoring" in the International Conference on "Environmental Stress and Aquatic Animal Health" organised by Department of Zoology, Government Women's College, Thiruvananthapuram on 24 February 2015.
95. Lecture on Scope of Marine Sciences at Sastra Sameeksha 2016, summer workshops on 'Experimental Science' for students organised by Kerala State Council for Science, Technology and Environment, Thiruvananthapuram on 1th May 2016.
96. Taxonomy of Marine Molluscs of India: Status and Challenges Ahead. Invited paper presented at International Training Workshop on Taxonomy of Bivalve Molluscs organised by Cochin University of Science and Technology on 13 May 2016.
97. Climate change, fish migration and restoration of rivers: a proposal for the Western Ghats. Invited paper presented in the Seminar on "Linking Rivers, Barrages and Fish Migration" organised by Ashoka Trust for Research in Ecology and the Environment, Bangalore and Kerala University of Fisheries and Ocean Sciences, Cochin on 21 May 2016 (Book abstract, Page. 18).
98. Climate change and livestock productivity: the role of indigenous breeds. Invited paper presented in Kapila Fest 2016, CMS College, Kottayam on 28 May 2016
99. Environment day lecture on "Environmental Concerns and Our Common Future" organised by TKM College of Arts and Science on 6th June 2016.
100. Lecture on "Environmental Crisis Our Common Future" organised by St. Xavier's College, Thumba on 8th June 2016.
101. Biju Kumar, A. (2017). Wetlands for disaster risk reduction: Kerala scenario- invited key note lecture in the World Wetlands Day Celebrations organised by the Department of Zoology, Sree Narayana College, Chempazhanthy on 2<sup>nd</sup> February 2017.

102. Biju Kumar, A. (2017). Sasthravum manavikathayum- Vibhava samaharanathinte kaivazhikal (in Malayalam). Paper presented in the three day National Seminar on Human Resource Development in Malayalam Literature organized by the Department of Malayalam, University of Kerala on 16<sup>th</sup> February 2017 (oral)
103. Biju Kumar, A. (2017). Biodiversity for sustainable development. 3<sup>rd</sup> National Biodiversity Conference jointly organized by Kerala State Biodiversity Board, National Biodiversity Authority of India, KSCSTE and NABARD during 24<sup>h</sup> February 2017 (oral).
104. Arathi, A.R., Ravinesh, R. and Biju Kumar, A. (2017). Diversity of Bivalve Molluscs along West Coast of India organised by the Kerala State Biodiversity Board during 23-24 February, 2017 (Book of Abstracts, p.60).
105. Biju Kumar, A. (2017). DNA barcoding and biodiversity documentation. International seminar on 'Frontiers in Genomics and Molecular Techniques' organized by PG & Research Department of Zoology, University College, Thiruvananthapuram on 1 March 2017 (oral).
106. Biju Kumar, A. (2017). Biodiversity, Climate change and Millennium Development Goals: Challenges for India- plenary lecture at the Fourth Indian Biodiversity Congress at Indian Biodiversity Congress at Central University, Pondicherry on 12 March 2017 (Oral)
107. Biju Kumar, A. (2017). Climate change impacts in the coastal and marine ecosystems of India' in the national seminar on 'The Conservation and Management of Coastal Ecosystems' organized by Department of Zoology, University of Kerala, during 23<sup>rd</sup> March 2017 (oral).
108. Biju Kumar, A. (2017). Mahseer conservation in Kerala. 'Mahseer 2017- International Workshop on Mahseer Conservation' jointly organized by Bournemouth University, Mahseer Trust, KUFOS, Vemco, CFSI and Directorate of Coldwater Fisheries Research at Cochin on 5 April 2017 (oral).
109. Biju Kumar, A. (2017). Taxonomy of freshwater crabs. Training Workshop on Capacity Building on Freshwater Biotaxa Taxonomy (Fishes, Amphibians and Decapods)'organized by College of Natural Resources, Royal University of Bhutan, Lobesa, during 22- 26 May, 2017 (oral).
110. Riyas, A and Biju Kumar, A. (2017). Jellyfish blooms in Indian coast: a status report. National Workshop on Coral Reef Ecosystem of West Coast of India: Current Status and Way Forward organized by ZSI at Jamnagar, Gujarat during 12 to 14 July, 2017 (poster)
111. Biju Kumar, A. (2017). Status And Trends Of Introduced Faunal Species In Freshwater Ecosystems Of India- invited paper presented at the National Conference on Status of Invasive Alien Species in India organized by Zoological Survey of India and Botanical Survey of India at Kolkata on 14<sup>th</sup> December 2017.
112. National Seminar on Interdisciplinary Approaches in Materials and Biological Research (IAMBR-2018) organised by Mahatma Gandhi College, Thiruvananthapuram on 17<sup>th</sup> February 2018 and delivered a keynote address on "The Fun of Being a Biologist".
113. Lecture at UGC-Human Resource Development Centre of University of Kerala in the Short Term Course in Research Methodology on 22<sup>nd</sup> February 2018 on the topic "Research Methodology for Science".
114. Invited theme presentation on the topic "Science and Technology for Sustainable Development" in the National Science Day celebrations organised by University College, Thiruvananthapuram on 26<sup>th</sup> February 2018.
115. World Ocean Conference 2018 organised by Ocean Love and Bond Safari at Hotel Udaya Samudra, Kovalam on 8<sup>th</sup> June 2018 and delivered a lecture on "Ocean Awareness: The Way Forward".
116. National Seminar on "Conservation and Sustainability of Aquatic Resources" during 19 – 20 June, 2018 organised by Fisheries College and Research Institute, Thoothukudi and presented an invited paper on "Aquatic Invasive Species: Status And Challenges For Resource Conservation".
117. Lecture at UGC-Human Resource Development Centre of University of Kerala in the Refresher Course in Life Sciences on 10<sup>th</sup> September 2018 on the topic "United Nations Sustainable Development Goals: New Biology and the Role of Biologists".
118. Invited talk on "Marine Biodiversity in India: Threats and Conservation Strategies" in the International Seminar on Current Status and Challenges for Conservation and Sustainable use

- of Biodiversity (ISCCSB 2020), organized by PG Dept of Zoology, SN College, Kollam on January 24, 2020.
119. Invited talk on “Biodiversity and Climate Change: Status and Trends” in the National Seminar on Climate Change and Biodiversity Conservation and Sustainable Development: Challenges and Prospects in 21<sup>st</sup> Century organized by Mahatma Gandhi College, Trivandrum on January 25, 2020.
  120. Key-note lecture on “Marine Biodiversity, Blue Biotechnology and Sustainable Blue Economy in India: Potentials and Pitfalls” in the International Conference on Panorama of Life Sciences 2020 organised by the Department of Life Sciences, MK Bhavnagar University, Gujarat on January 28, 2020.
  121. Invited talk on “Microplastics and the marine environment” presented at the National Workshop on Microplastic Pollution organized by Toxic Links, New Delhi on 19 February 2020.
  122. Lecture on “Designing Research Proposals in Sciences” in the Short- Term Course in Research Methodology organized by the UGC Human Resource Development Centre, University of Kerala on 24.02.2020.
  123. Invited talk on “Genes to biomes: Modern trends in conservation” in National Science Day celebrations organized by the Department of Zoology, St.Stephen’s College, Pathanapuram on 5th March 2020.
  124. Invited lecture on “Plastic pollution and Marine Life” in the webinar in connection with the Celebration of Swachhta Pakhawada programme of the Ministry of Environment, Forest and Climate change and Kerala State Council for Science, Technology and Environment on 14th July 2020 at 11.00 am
  125. Invited talk on “Biodiversity and Ecosystem Services” in the National Webinar on Conservation of Biodiversity: Laws, Methods and ABS organised by Malabar Botanical Garden and Institute Plant Sciences, Kozhikkode on 29 July 2020
  126. Talk on “New Normal: Biodiversity, Environment and Sustainable Development Paradigms”. Refresher Course in Life Sciences (Multidisciplinary), in Online mode for the Professional Career Development of College Teachers organized by UGC-Human Resource Development Centre, University of Kerala on 13-08-2020.
  127. Invited Talk on “Aquariums - A Journey from Hobby to Education to Business” in the workshop on aquarium keeping organized by IQAC) & Health Club, Sree Narayana College, Kollam on August 19, 2020.
  128. Invited talk on “Emerging Technologies and New Species: Trends in Conservation Biology in the National Webinar on Animal Diversity and Conservation organised by Department of Zoology, Mangalore University, Karnataka on 7 October 2020
  129. Invited talk on “Alien Invasive Fish and Invasion Biology Research in India: Current Status and Way Forward” in the webinar on Impact of Invasive Alien Species On Biodiversity Conservation organized by Zoological Survey of India, Southern Regional Centre, Chennai on November 4, 2020.
  130. Invited talk on “Marine Biodiversity of India: The Known and Unknown Paradigms” in the International webinar organized by Biodiversity Conservation Foundation of India on 15 November 2020

131. Invited talk on “SDGs, Nutritional Security & Small-scale fisheries” in the webinar on Nutrition Security and Fisheries organized by Association of Fisheries Graduates, Cochin on 21-11-2020
132. Invited talk on “Biological Invasions in Inland Aquatic Ecosystems” in the National Webinar on “Sustainable Management of Aquatic Resources for Fish Production and Conservation” by Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Thoothukudi District. Tamil Nadu on 21.11.2020.
133. Invited talk on “The Fun of Being a Zoologist” in the International Webinar Series organized by PRNSS College, Mattannur, Kannur on 11 December 2020.
134. Lecture on “Designing Research Proposals in Sciences” in the Short- Term Course in Research Methodology organized by the UGC Human Resource Development Centre, University of Kerala on 22.12.2020.

#### **Seminars attended (From 2007 onwards)**

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1. Workshop on “Quality Improvement in Research” organized by the University of Kerala at Thiruvananthapuram, September 28-29, 2007.
2. Attended a seminar on “Ecoinformatics” organised by Indian Institute of Information Technology and Management, Kerala (IIITMK) during 23<sup>rd</sup> November 2007 at Thiruvananthapuram.
3. Attended a seminar on Ecoinformatics organised by Indian Institute of Information Technology and Management, Kerala (IIITMK) during October 2008 at Thiruvananthapuram (attended by Dr A. Biju Kumar)
4. Nineteenth Kerala Science Congress, 28-31 January 2008, Thiruvananthapuram organised by Kerala State Council for Science, Technology and Environment, Government of Kerala (attended by Dr A. Biju Kumar)
5. **International Conference** on Biodiversity Conservation and Management (BIOCAM 2008), February 3-6, 2008, Cochin, Kerala, India organized by Rajiv Gandhi Chair in Contemporary Studies, CUSAT, Cochin (attended by Dr. SD Ritakumari, Dr. K. Padmakumar and Dr A. Biju Kumar).
6. **International Symposium** on “Marine Ecosystems Challenges and Opportunities (MECOS 09), organized by Marine Biological Association of India, 9-12 February 2009, Cochin. Book of Abstracts, pp. 215-216.
7. Workshop on “DNA Barcoding of Marine Life” held at Centre of Advanced Study in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu, March 30-31, 2009.
8. “Matsya Mahotsav” Exhibition conducted by Matsyafed at Kanakakkunnu Palace, Thiruvananthapuram from 08.05.2009 to 13. 05.2009.
9. “Third **International** Barcode of Life Conference held in Mexico City, Mexico from November 7 to 12, 2009.
10. “Workshop on Project Planning and Grant Proposal Writing”, “Short Course on barcoding protocols”, Short course on data management in BOLD, GenBank and BOLI Data Portal” and “IDRC Workshop on Barcoding in Developing Countries” held in association with Third International Barcode of Life Conference at Mexico City, Mexico during 7-9 November 2009
11. 7<sup>th</sup> Indian Science Congress hosted by Indian Space Research Organisation & University of Kerala held at Thiruvananthapuram during 3-7 January 2010.
12. 22<sup>nd</sup> Kerala Science Congress held at Kerala Forest Research Institute, Peechi during 28-31 January 2010.
13. National Seminar on “E.K. Janaki Ammal and her contributions to Indian Science” held at Sharada Krishna Iyer Town Bank Auditorium, Thalassery on 4 November 2010.

14. 97<sup>th</sup> Indian Science Congress hosted by Indian Space Research Organisation & University of Kerala held at Thiruvananthapuram during 3-7 January 2010.
15. 22<sup>nd</sup> Kerala Science Congress held at Kerala Forest Research Institute, Peechi during 28-31 January 2010.
16. National Seminar on “Health, Food and Agro-biodiversity Changing Paradigms. 12-14 February 2010, Calicut.
17. Seminar on National Symposium on “*Parasite taxonomy, Biodiversity and Fish Health: Environmental Impact*” organized by Department of Zoology, Andhra University, Vishakapatnam held during 12-13 March 2010.
18. National Seminar on “E.K. Janaki Ammal and her contributions to Indian Science” held at Sharada Krishna Iyer Town Bank Auditorium, Thalassery on 4 November 2010.
19. Attended the “International Conference on Ecosystem Conservation and Sustainable Development” organised held in Ambo University, Ethiopia from 10-12 February 2011 and presented a paper entitled “Fish biodiversity and trophic level analysis of Vellayani lake, India using Mass Balance Ecopath Model”.
20. Workshop on “Live Gene Banking of Freshwater Fishes of the Western Ghats” organised by National Bureau of Fish Genetic Resources at Kumarakam, Kerala on 21<sup>st</sup> May, 2011.
21. Attended Workshop on “Informatics” and Short Course on “DNA Barcoding Methods” at University of Adelaide, Australia during 28-29 December 2011.
22. Attended “Fourth International Barcode of Life Conference” at **University of Adelaide, Australia** during 30 November to 4<sup>th</sup> December 2011 and presented a paper titled “Revisit to the Taxonomy of Octopuses (Mollusca: Cephalopoda) in Indian Coastal Waters through DNA Barcoding”.
23. All Kerala Quiz Competition for High School Students organized in connection with the 24<sup>th</sup> Kerala Science Congress at the Rubber Research Institute of India, Kottayam on 28<sup>th</sup> January 2012 (As Quiz Master)
24. International Conference on “Sustainable Ornamental Fisheries: Way Forward” organized by School of Industrial Fisheries, Cochin University of Science and Technology, Kochi during 23-25 March 2012 (Co-chaired the session on sustainability issues in ornamental fisheries.
25. Expert consultation on Academic Partnership for Excellence and Networks in Fisheries Education and Research held at Central Institute of Fisheries Education, Mumbai during 17-18 April 2012.
26. Workshop on “Challenges for Conservation of Freshwater Biodiversity in India- Science and Policy” organised by Zoo Outreach Organisation, Coimbatore, Conservation Research Group, St. Albert’s College, Kochi and South Asia Office of the IUCN Freshwater Fish Specialist Group on 27<sup>th</sup> and 28<sup>th</sup> September 2012 at Periyar Tiger Reserve, Thekkadi.
27. Eleventh Meeting of the Conference of Parties to the Convention on Biological Diversity (COP 11) (International Intra-governmental meeting) held at Hyderabad, India during 12-14 October, 2012.
28. Workshop on Fisheries Data Analysis Using R Statistical Package. 21–23 April 2014. Organised by the Department of Aquatic Biology and Fisheries, University of Kerala and Campus Computing Facility (DST Purse Program), University of Kerala.
29. Freshwater biodiversity review assessment workshop during 26-28 May 2014 in Coimbatore organised by Zoo Outreach Organization and IUCN
30. One Day Consultation workshop on “Invasive Alien Species: Need for Risk Assessment and Management Framework for Healthy Freshwater Ecosystems” organised by ICAR- National Bureau of Fish Genetic Resources and World Wide Fund for Nature- India at New Delhi on 19<sup>th</sup> December 2018.
31. Attended National Children’s Science Congress organised by NCSTC, Govt of India at SOA University, Bhubaneswar during 28 to 31 December 2018 as State Academic Co-ordinator for Kerala.

#### List of PhDs Awarded

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Sl. No.	Name of Student	Title of the Thesis	Year awarded
1	Deepthi. G.R.	Biodiversity associated with the bycatch of bottom trawlers operating from Sakthikulangara and Neendakara fishing harbours, Kerala (No.Ac.E.I.B1/27808/04 dated 1.2.2005)	2009
2	Sirajudheen, T.K.	Studies on the diversity of marine ornamental fishes of Kerala coast (No.Ac.E.I.B2/9292/2008 dated 27.05.2008)	2012
3	Sreeja, V.	Taxonomy and diversity of cephalopods (Mollusca: Cephalopoda) of Kerala coast (No.Ac.E.I.B2/9292/2008 dated 27.05.2008)	2014
4	Dhanya M. Alex	Genetic Variation of <i>Etroplus suratensis</i> (Bloch) (Pisces: Cichlidae) Populations of Kerala (No.Ac.E.I.B2/9292/2008 dated 27.05.2008)	2014
5	Master Sushil Kumar	Diversity and Proximate Composition of Brachyuran Crabs in the Trawl By-catch of Kerala Coast (No.Ac.E.I.B1/7469/05 dated 19.01.2006)	2014
6	Abhijna, U.G.	Biomonitoring of Veli-Akkulam Lake in Kerala using Macroinvertebrates and Fish (No.Ac.E.I.B2/9292/2008 dated 27.05.2008)	2014
7	Regi, S.R.	Trophic Modelling and Biodiversity Assessment of Veli-Akkulam Lake, Kerala (No.Ac.E.I.B2/9292/2008 dated 27.05.2008)	2015
8	Reshmi R.	Taxonomy and Diversity of Anomuran Crabs (Decapoda: Anomura) of Kerala Coast (No. Ac.EI.B1/34579/2008 dated 22/08/2009)	2015
9	Deepa R. Pillai	Taxonomy of Echinoderms along Kerala Coast with special emphasis on sea cucumbers (No.Ac.E.I.B1/2284/07 dated 12.9.2007)	2016
10	Preetha Karnaver	Taxonomy and diversity of gastropods (Mollusca: Gastropoda) of Kerala coast (No.Ac.E.I.B1/2284/07 dated 13.11.2007)	2017
11	Ravinesh R.	Biodiversity of molluscan fauna of the Union Territory of Lakshadweep	2017
12	Sheeba, S.	Taxonomy and community ecology of the parasite fauna of freshwater eels, <i>Anguilla bicolor bicolor</i> McClelland and <i>Anguilla bengalensis Bengalensis</i> (Gray) (Anguilliformes: Anguillidae) (Ac.EI.B1/9076/2009 dated 30/6/2009)	2019
13	Sneha Chandran BK	Molecular Taxonomy and Phylogeny of Opisthobranchs (Mollusca: Gastropoda) of Lakshadweep and West Coast of India (Ac.E.II/3/6080/18)	2019
14	Arathi, A.R.	Taxonomy and Diversity of Bivalve Molluscs of Lakshadweep and West Coast of India (Ac.E.II/1/6129/18)	2019

Currently registered PhD Students: 8

Post doctoral fellows: 2



## List of MPhil dissertations

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Sl. No.	Name of Student	Title of the Dissertation	Year
1	Smt. Apsara S. Krishnan	Biodiversity of shrimps associated with trawl fishery at Neendakara and Sakthikulangara fishing harbours, Kerala	2009
2	Sri. Baiju, P.T.	Marine ornamental fish diversity of Vizhinjam Bay, Lakshadweep Sea	2009
3	Sri. Ravinesh, R.	Comparison of intertidal biodiversity of artificial sea wall and natural rocky shores: a case study	2009
4	Smt. Remya Mohan	Comparison of morphometric and meristic characters of <i>Puntius exclamatio</i> Pethiyagoda & Kottelat and <i>Puntius filamentosus</i> (Valenciennes) inhabiting Kallada River, Kerala	2010
5	Sri. Ratheesh, R.	Diversity of aquatic insects in Vellayani Lake, Kerala	2010
6	Smt. Raji, M.P.	Food and feeding analyses and food spectrum of fish fauna of Sasthamkotta Lake, Kerala	2011
7	Smt. Ambili, T.	Benthic Ecology and sediment texture of upper Chittar river, Kerala	2011
8	Smt. Akhila, G.L.	Water quality and Planktonology of upper Chittar river, Kerala	2011
9	Smt. Renjini, M.R.	Ectoparasites of selected marine ornamental fishes of Kerala Coast	2011
10	Smt. Anila, A.S.	Shell selection by the hermit crab <i>Coenobita rugosus</i> H. Milne Edwards (Crustacea: Decapoda: Coenobitidae)	2012
11	Smt. Souji, S.	Taxonomy and diversity of bivalve molluscs (Mollusca: Bivalvia) of South Kerala Coast	2012
12	Sri Apreshgi, K.P.	Diversity of Brachyuran Crabs in Selected Mangrove Ecosystems of Kerala	2013
13	Smt. Binsha, R.	Diversity of hermit crabs (Crustacea: Anomura) of Lakshadweep	2013
14	Smt. Lekshmi, S.	Biodiversity of Brachyuran Crabs of the Rocky Shores of Southern Kerala	2013
15	Sri Arun, K.S.	Taxonomy of sponges (Phylum: Porifera) of southern west coast of India	2016
16	Anjana, V.L	Biodiversity of molluscan fauna of Ashtamudi estuary, Kerala	2017

17	Salini S Pillai	Shell polymorphism and taxonomy of <i>Babylonia</i> Schlüter, 1838 (Gastropoda: Babyloniidae) from south India: a morpho-molecular study	2017
18	Araya Sudhakaran	Biodiversity and Associations of Selected Marine Alpheid Shrimps (Crustacea: Alpheidae) of South India	2018
19	Geethu, M.	Integrative Taxonomy of Sea Anemones (Cnidaria: Anthozoa) of Kerala Coast	2019

### Research Contributions (new species/records)

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#### New Species named after Biju Kumar

***Thyonina bijui* Thandar, 2017**- Sea cucumber (Echinodermata: Holothuroidea: Thyonidae) described from Vizhinjam, Kerala by the famous taxonomist Dr Ahmed S. Thandar (Thandar et al., 2017)

***Leptarma biju* Devi and Ng, 2020**- Mangrove crab (Brachyura, Sesarmidae) described from Kannur, Kerala by Devi and Peter, 2020.

***Renocila bijui* Aneesh, Bruce, Nashad, Bineesh & Hatha, 2020**- Parasitic isopod of fish (sopoda: Cymothoidae) described from Andaman and Nicobar island, India

#### New Genera described- 5

1. *Furcophaptor* Biju Kumar and Kearn 1996 (Monogenea: Dactylogyridae)
2. *Baculochondria* Ho, Kim & Biju Kumar 2000 (Copepoda: Chondracanthidae)
3. *Karkata* Pati, Rajesh, Smrithy, Sheeja, Biju Kumar and Sureshan 2017 (Decapoda: Brachyura)
4. *Kani* Biju Kumar, Smrithy and Ng 2017 (Decapoda: Brachyura: Gecarcinucidae)
5. *Brucethoa* Aneesh, Hadifield, Smit, Kumar 2020 ()

#### New Species - 5

1. *Furcophaptor cynoglossi* Biju Kumar and Kearn 1996 (Monogenea: Dactylogyridae)
2. *Monorcheides hafeezullahi* Biju Kumar 1997 (Digenea: Monorchidae)
3. *Baculochondria papilla* Ho, Kim and Biju Kumar 2000 (Copepoda: Chondracanthidae)
4. *Acanthochondria zebrae* Ho, Kim and Biju Kumar 2000 (Copepoda: Chondracanthidae)
5. *Heterochondria petila* Ho, Kim and Biju Kumar 2000 (Copepoda: Chondracanthidae)
6. *Ciliopagurus grandis* Komai, Reshmi and Biju Kumar 2012 (Crustacea: Decapoda: Anomura: Diogenidae)
7. *Rhabdochona (Rhabdochona) keralaensis* Moravec, Sheeba and Biju Kumar 2012 (Nematoda: Rhabdochonidae)
8. *Diogenes canaliculatus* Komai, Reshmi and Biju Kumar 2013 (Crustacea: Decapoda: Anomura: Diogenidae)
9. *Pagurus spinossior* Komai, Reshmi and Biju Kumar 2013 (Crustacea: Decapoda: Anomura: Diogenidae)
10. *Mursia arabica* Bijukumar, Sushilkumar and Galil 2013 (Crustacea: Decapoda: Brachyura: Mursidae)
11. *Paguristes luculentus* Komai, Reshmi and Bijukumar 2015 (Crustacea: Decapoda: Anomura: Diogenidae)
12. *Afropinnotheres ratnakara* Ng and Biju Kumar 2015 (Crustacea: Decapoda: Brachyura: Pinnotheridae)
13. *Moloha tumida* Ng and Biju Kumar 2015 (Crustacea: Decapoda: Brachyura: Homolidae)
14. *Cistopus platinoidus* Sreeja, Norman and Biju Kumar, 2015 (Mollusca: Cephalopoda: Octopoda: Octopodidae)

15. *Carcinoplax fasciata* Ng and Biju Kumar, 2016 (Crustacea: Decapoda: Brachyura: Goneplacoidea)
16. *Karkata ghanarakta* Pati, Rajesh, Smrithy, Sheeja, Biju Kumar and Sureshan 2017 (Decapoda: Brachyura) (Pati *et al.*, 2017)
17. *Pilarta aroma* Pati, Rajesh, Smrithy, Sheeja, Biju Kumar and Sureshan 2017 (Decapoda: Brachyura) (Pati *et al.*, 2017)
18. *Pilarta punctatissima* Pati, Rajesh, Smrithy, Sheeja, Biju Kumar and Sureshan 2017 (Decapoda: Brachyura) (Pati *et al.*, 2017)
19. *Cylindrotelphusa breviphallus* Pati, Rajesh, Smrithy, Sheeja, Biju Kumar and Sureshan 2017 (Decapoda: Brachyura) (Pati *et al.*, 2017)
20. *Cylindrotelphusa longiphallus* Pati, Rajesh, Smrithy, Sheeja, Biju Kumar and Sureshan 2017 (Decapoda: Brachyura) (Pati *et al.*, 2017)
21. *Kani maranjandu* Biju Kumar, Smrithy and Ng 2017 (Decapoda: Brachyura: Gecarcinucidae) (Biju Kumar *et al.*, 2017)
22. *Typhlocarcinus kerala* Ng, Suvarna Devi and Biju Kumar, 2017 (Crustacea: Brachyura: Pilumnidae) (Ng *et al.*, 2017)
23. *Petrarctus jeppiaari* Yang, Biju Kumar and Chan, 2017 (Crustacea, Decapoda, Scyllaridae) (Yang *et al.*, 2017)
24. *Heterocarpus fascirostratus* Yang, Chan and Biju Kumar 2018 (Crustacea: Decapoda: Panalidae) from western Pacific Ocean (Yang *et al.*, 2018)
25. *Diogenes spongicola* Ng, Ravinesh and Kumar 2018. (Crustacea: Decapoda: Diogenidae) from southwest and southeast coasts of India (Komai *et al.*, 2018)
26. *Parilia pattersoni* Ng, Suvarna Devi and Biju Kumar 2018 (Crustacea: Decapoda: Leucosiidae) from the eastern Indian Ocean (Ng *et al.*, 2018)
27. *Haminoea aptei* Bharate, Oskars, Narayana, Ravinesh, Biju Kumar & Malaquias, 2018 (Mollusca: Gastropoda: Heterobranchia: Haminoeidae) from Andaman and Nicobar Islands and Lakshadweep (Bharate *et al.*, 2018)
28. *Polybranchia burni* Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018
29. *Polybranchia jannae* Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018
30. *Polybranchia jensenae* Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018
31. *Polybranchia mexicana* Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018
32. *Polybranchia samanthae* Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018
33. *Polybranchia schmekelae* Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018
34. The Signal fish *Pteropsaron indicum* Victor and Kumar, 2019 (Teleostei: Trichonotidae: Hemerocoetinae) from Indian coast (Victor and Kumar, 2019)
35. *Elthusa uranoscopus* Aneesh, Helna, Kumar & Trilles, 2020.  
<http://www.marinespecies.org/aphia.php?p=taxdetails&id=1453573>
36. *Elthusa pseudorhombus* Aneesh, Helna, Kumar & Trilles, 2020;  
<http://www.marinespecies.org/aphia.php?p=taxdetails&id=1453572>
37. 4. *Elthusa fistularia* Aneesh, Helna, Kumar & Trilles, 2020.  
<http://www.marinespecies.org/aphia.php?p=taxdetails&id=1453571>.
38. *Acanthochondria krishnai* Aneesh, Helna & Kumar, 2020.  
<http://www.marinespecies.org/aphia.php?p=taxdetails&id=1442656>.
39. *Chondracanthus kabatai* Aneesh, Helna & Kumar, 2020.  
<http://www.marinespecies.org/aphia.php?p=taxdetails&id=1442661>.
40. *Brucethoa baratha* Aneesh, Hadifield, Smit, Kumar 2020
41. *Nephropsis pygmaea* Chan, Chan and Kumar 2020 (Lobster from Thailand and Philippines)

### New records/rediscoveries

1. Recorded the Khaki flounder *Laeops natalensis* Norman (Pisces: Bothidae) for the first time from Indian coast (2008; Indian Journal of Fisheries)
2. The soleid flatfish *Aseraggodes umbratilis* (Alcock) (Pisces: Soleidae) is recorded from Indian coast after the initial reports by Alcock in 1894 and 1899. (2008; Indian Journal of Fisheries)
3. Hermit crabs *Coenobita brevimaus* and *Coenobita rugosus* (Crustacea: Decapoda: Anomura) from the Indian Coast (2010; *Marine Biodiversity Records (Marine Biological Association of United Kingdom)*).
4. Reported the sea cucumber *Trachasina crucifera* (Semper) (Echinodermata: Holothuroidea: Cucumariidae) from India (Deepa and Biju Kumar, 2011)
5. Rediscovered and redescribed endemic Kerala mud snake, *Enhydris dussumierii* (Duméril, Bibron & Duméril, 1854) from India (2011; *Current Science*).
6. Reported hermit crabs, *Calcinus morgani* and *Diogenes klaasi* (Crustacea: Anomura: Diogenidae) from India (2011; *Journal of Threatened Taxa*)
7. Reported reticulated moray, *Muraena retifera* (Fishes: Anguilliformes: Muraenidae) from the Indian coast (2011; *Marine Biodiversity Records of Marine Biological Association of the United Kingdom*).
8. Reported octopuses *Amphioctopus neglectus* and *A. rex* (Mollusca: Cephalopoda) from the Indian coast (2012; *Molluscan Research*).
9. Reported Sawspine spikefish, *Paratriacanthodes retrospinis* Fowler, 193 (Pisces: Tetraodontiformes: Triacanthodidae) from Indian waters (*Check List*, 8(4): 752–753, 2012 )
10. The slug *Dendrodoris coronata* (Kay & Young, 1969) recorded from Lakshadweep is the first report in Western Indian Ocean (Ravinesh *et al.*, 2013).
11. Recorded the jellyfish *Marivagia stellata* Galil and Gershwin, 2010 for the first time from Indian Ocean and the record established the introduction of this species to the Mediterranean through the Suez Canal as an invasive species (Galil *et al.*, 2013).
12. Parasitic nematode *Procamallanus (Spirocamallanus) anguillae* Moravec *et al.*, 2006 recorded for the first time from India from the Indonesian shortfin eel *Anguilla bicolor bicolor* (Moravec *et al.*, 2013).
13. The brachyran crab *Arcania brevifrons* Chen, 1989 is reported for the first time in India (Biju Kumar *et al.*, 2013)
14. The brachyran crab *Myra pernix* Galil, 2001 is reported for the first time in India (Biju Kumar *et al.*, 2013)
15. Recorded the hermit crab *Ciliopagurus liui* Forest, 1995 for the first time from Indian Ocean (Komai *et al.*, 2013a)
16. Recorded the hermit crab *Dardanus lagopodes* (Forsk., 1775) for the first time from Indian Ocean (Reshmi and Biju Kumar, 2013)
17. Recorded the hermit crab *Oncopagurus monstrosus* (Alcock, 1894) for the first time from Indian Ocean (Reshmi and Biju Kumar, 2013)
18. Recorded the hermit crab *Paguristes miyakei* Forest & McLaughlin, 1998 for the first time from Indian Ocean (Reshmi and Biju Kumar, 2013)
19. Reported gastropod mollusc *Granulifusus poppei* (Mollusca: Fasciolaridae): First report from Indian coast (Preetha *et al.*, 2014)
20. Reported the sea slug *Polybranchia orientalis* (Mollusca: Sacoglossa: Caliphyllidae) for the first report from west coast of India (Ravinesh *et al.*, 2014)
21. Reported *Propeamussium arabicum* Dijkstra & Janssen, 2013 (Mollusca: Bivalvia: Propeamussiidae) for the first report from west coast of India (Arathi *et al.*, 2014)
22. Reported Sea anemone *Anthopleura buddemeieri* (Cnidaria: Actiniaria: Actiniidae) from India (Bijukumar *et al.*, 2015)
23. Reported the octopus *Cistopus taiwanicus* Liao & Lu, 2009 (Cephalopoda: Octopodidae) from the Indian Coast (Sreeja *et al.*, 2015)

24. Black-ringed Aplysia *Aplysia dactylomela* Rang, 1828 recorded and confirmed from India (Sheha Chandran et al., 2016)
25. Reported *Anteaeolidiella fijensis* (Mollusca, Nudibranchia, Aeolidiidae) from India (Carmona et al., 2017)
26. Reported Indian hagfish *Eptatretus* sp. (Cyclostomata: Myxinidae) from India (Fernholm et al. 2013).
27. Recorded the slugs *Hoplodoris bifurcata* (Baba, 1993) and *Hoplodoris flammea* Fahey and Gosliner, 2003 (Mollusca, Gastropoda, Discodorididae) for the first time from the western Indian Ocean (Sneha Chandran et al., 2017a).
28. Recorded slugs *Goniobranchus rufomaculatus* and *Volvatella ventricosa* for the first time from the western Indian Ocean (Mollusca, Gastropoda) (Sneha Chandran et al., 2017b).
29. Recorded two crabs- *Cycloes marisrubri* Galil & Clark, 1996 (Calappidae) and *Dorippoides nudipes* Manning & Holthuis, 1986 (Dorippidae) from India (Suvarna Devi and Biju Kumar, 2017)
30. Recorded the crab *Liomera striolata* (family Xanthidae) and thalassinid *Axiopsis serratifrons* (family Axiidae) for the first time from India (Anu et al., 2017)
31. The zig zag venus clam *Lioconcha rumphii* van der Meij, Moolenbeek & Dekker, 2010 was collected for the first time from Lakshadweep, India, Central Indian Ocean (Samuel et al., 2017).
32. Reported seven species of stomatopods from India *Lysiosquilla lisa* Ah Yong & Randall, 2001, *Odontodactylus cultrifer* (White, 1951), *O. japonicus* (De Haan, 1844), *Faughnia formosae* Manning & Chan, 1997, *Busquilla plantei* Manning, 1978, *Carinosquilla spinosa* Ah Yong & Naiyanetr, 2002, and *Quollastria kapala* Ah Yong, 2001. (Ah Yong and Biju Kumar, 2018)
33. Reported brachyuran crabs *Naxioides robillardi* (Miers, 1882) (Epiplatidae) and *Lupocyclus tugelae* Barnard, 1950 (Portunidae) from India (Devi et al., 2019)
34. Reported the Mollusc *Liotina cycloma* Tomlin, 1918 (Gastropoda: Liotiidae) for the first time from the Central Indian Ocean (Ravinesh et al., 2020).
35. First Record of Rhizostome Jellyfish *Catostylus perezii* Ranson 1945 (Cnidaria: Scyphozoa) from the Indian Coast (Riyas et al., 2019)
- 36.

#### **New records of exotic species in Kerala**

Recorded the presence of the exotic cichlid *Oreochromis niloticus* (Pisces: Cichlidae) from Bharathapuzha River in Kerala (2008; Journal of Inland Fisheries Society of India).

The invasive suckermouth sailfin catfish *Pterygoplichthys* spp. from the natural drainages of Kerala and hypothesized possibility of hybrids as invaded populations (2015; Journal of Threatened Taxa)

#### **Gen Bank Submissions**

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About 500 sequences of mitochondrial gene sequences (cytochrome c oxidase 1 and cytochrome b genes)

#### **Networking**

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Uploaded majority of research papers in <https://www.academia.edu/> and [www.researchgate.net](http://www.researchgate.net)

#### **Informatics**

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Developed database on marine biodiversity of Kerala coast (<http://keralamarinelife.in/>).

#### **Consultancy**

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Consultancy of Aquarium Complex cum Training and Awareness Centre at Odayam (Project of Agency for Development of Aquaculture in Kerala), Varkala (Amount: Rs. 5 lakhs) (Individual Consultancy).

Consultancy project for evaluating the effect of V-Max 500 (Virginiamycin) on growth performance and disease resistance of white leg shrimp, *Litopenaeus vannamei* for the company M/s KOFFOLK Limited, VP Fibro Aquaculture, Israel. (Amount US \$ 5,000) (Departmental consultancy)



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