



PROF.

A BIJU KUMAR

Dean, Faculty of Science, University of Kerala

Professor and Head
Department of Aquatic Biology & Fisheries
University of Kerala
Thiruvananthapuram 695 581
Kerala, India



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*The Pursuit of Knowledge (Gnan),
Wisdom (Pragyaa), and Truth
(Satya) was always considered in
Indian thought and philosophy as
the highest human goal.*

National Education Policy, 2020

—
*Education is the manifestation of
the perfection already in man.*
— Swami Vivekananda

CURRICULUM
VITAE

CURRICULUM VITAE



Name : **BIJU KUMAR A.**

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Occupation : Professor and Head
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Kaimanam, Pappanamcode PO.,
Thiruvananthapuram 695018, Kerala

Date of Birth : 28.05.1968

Current Positions

- Dean, Faculty of Science
- Professor and Head, Department of Aquatic Biology and Fisheries, University of Kerala
- Coordinator, Sophisticated Analytical & Technical Help Institutes (SATHI) programme of University of Kerala supported by Department of Science and Technology, Government of India (Rs. 100 crores; 2023 onwards)
- 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 and Faculty of Environmental Sciences, Cochin University of Science and Technology; Board of Studies, Faculty of Ocean Science and Technology; Kerala University of Fisheries and Ocean Studies; School of Marine Sciences, Andhra University
- Editor-in-Chief, Journal of Aquatic Biology & Fisheries
- Project Leader, ECO-MARINE (Building a Comprehensive Mechanism for Preserving Marine Ecosystems and Life from the negative consequences of Climate Change and the disposal of Plastic Debris) co-funded by the Erasmus + programme of the European Union (110,427 Euros; 2022-24 period)

Research metrics

- Research Gate: <https://www.researchgate.net/profile/Biju-Kumar-4> (Research Interest Score 4,972)
- Google Scholar: https://0-scholar-google-com.brum.beds.ac.uk/citations?user=_5a21wQAAAAJ&hl=en (h-index: 23; i10 index: 77; Citations: 2678)
- ORCID: <https://orcid.org/0000-0001-5477-2119>
- Scopus Author Identifier: 7408039257 (<https://www.scopus.com/authid/detail.uri?authorId=7408039257>)

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) (Title: Studies on The Metazoan Parasites Associated With the Flatfishes (Order Pleuronectiformes) of the Coast of Kerala)	
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, I Rank
B.Sc.	University College, University of Kerala	1988	Zoology (Main) Botany & Chemistry (Subsidiaries)	I Class

Overseas Training

- Training on fish parasitology at Czech Academy of Sciences, Czech Republic; training on DNA barcoding and data analysis at Mexican Academy of Sciences (Mexico), Guelph University (Canada), Adelaide University (Australia); training on marine ecosystem monitoring, Oviedo University, Spain and Archipelagos Institute of Marine Science, Samos, Greece
- Overseas visits for paper presentations and invited lectures: Mexico, Australia, Canada, Philippines, South Africa, Malaysia, Singapore, South Korea, Ethiopia

Teaching Experience

- Thirty years teaching experience in Zoology (UG and PG levels) and 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.
- Completed 10 years as Professor on 30.05.2023
- Guest Faculty, M.Phil. programme, Department of Computational Biology & Bioinformatics, and M.Tech. programme, Dept. of Future Studies, University of Kerala

Research Experience

- Thirty three years research experience in the field of Aquatic Biology, Fisheries, Taxonomy and Biodiversity documentation.
- Research Areas: Taxonomy, Molecular Systematics, Biodiversity documentation and informatics, ecology, fish and fisheries
- Number of Ph.D. degrees produced: **17**
- Number of Ph.D. students currently registered: **7**
- Post-Doctoral Fellows: Completed: **4**; ongoing: **1**
- Number of M. Phil. degrees produced: **21**

Positions held and Administrative Experience

Administrative experience: 13 years (with multiple assignments, in government and University including as Head of the Department)

- 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.

Positions held and Administrative Experience

- **Head of the Department**, Dept. of Aquatic Biology and Fisheries, University of Kerala: April 2011 to April 2014; 19 January 2015 to 31 March 2018; 1st May 2019 (continuing)
- **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; 7.08.2023 to 16.08.2025 (continuing)
- **Director of Research**, University of Kerala (December 2017 to March 2018)
- **Dean**, Faculty of Science, University of Kerala (August 2017 to July 2019); September 2023- continuing
- **Director**, Kerala University Technology Business Startup Centre (KUTBSC) (September 2019 to June 2020)
- **State Academic Director**, National Children's Science Congress (Kerala State): 2018- (Continuing)
- **Vice Chairman**, Credit and Semester System, University of Kerala (March 2019 to May 2023)
- **Coordinator**, DST-SATHI project, University of Kerala
- **Nodal Officer**, establishment of Science Park at Thiruvananthapuram with University of Kerala

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)
- Highest research grant award (Faculty of Science and Applied Science), University of Kerala (2022)
- Padma Shri Prof. N. Balakrishnan Nair Environmental Excellence Award 2023 awarded by Society for Advancement of Biological Sciences, Bengaluru India.

MoUs signed

- With Lee Kong Chian Natural History Museum, National University of Singapore to establish a general frame work of co-operation among the parties to develop, scientifically review the content of, continuously improve and maintain an aquatic biodiversity information system, to be used by the signatory party and others (Signed in 2017)
- With Michigan Technological University, USA to exchange academic and research staff, exchange students, special projects (Signed in 2017)
- With Lee Kong Chian Natural History Museum(LKCNHM), National University of Singapore to establish research collaboration for joint project titled “The Deep – Sea Decapod Crustaceans of Indian Seas: Taxonomy and Biography” (Signed on 2019)
- With Cyprus University, Cyprus for executing the Ecomarine research project supported under the Erasmus+ programme of the European Union, with a Project cost of 110,427 Euros (Signed n 2022)

Best paper awards

- 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 if 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 oraganically 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. Bijukumar of the Department of Aquatic Biology and Fisheries, University of Kerala, bagged the best paper award in Fisheries and Veterinary Science in the 26th 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

Best paper awards

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.
- Best poster presentation award 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. Riyas Kerala Sciences Congress of KSCSTE2021
- Best paper presentation Award for the paper “Discards from Trawlers and Foraging Behaviour of Sea Birds: A Case Study from Kerala Coast, India” Nisanth, H.P International Webinar on the conservation of life below water perspectives on systematics, sustainable livelihoods and citizen science (University of Kerala) 2021
- Best paper presentation award for the paper Invasion of the Charu mussel *Mytella strigata* (Bivalvia: Mytilidae) Ravinesh R International Webinar on the conservation of life below water perspectives on systematics, sustainable livelihoods and citizen science (University of Kerala) 2021
- Best paper presentation award for the paper Complex colour morphs in commercially valuable cryptic species *portunus reticulatus* (Herbst, 1799) from south India identified using integrative taxonomy in marine biodiversity and taxonomy. Suvarna S. Devi International Webinar on the conservation of life below water perspectives on syatematics, sustainable livelihoods and citizen science (University of Kerala) 2021
- Best Paper award for the paper “Is Deep-sea Fishing Sustainable? A Case Study Based on the Diversity of Deep-Sea Batoids in the Trawl bycatch along South Indian Coast” in the field of Fisheries science. Bhagyalekshmi, V International webinar on Sustainable Marine Fisheries and Aquaculture (University of Kerala) 2021
- Best paper award for the paper “Conservation of Rays (Elasmbranchii: Batoidea) in India: Status and Challenges” in the field of Marine biodiversity conservation. Bhagyalekshmi, V International Webinar on the conservation of life below water perspectives on syatematics, sustainable livelihoods and citizen science (University of Kerala) 2021
- Best poster presentation award in competition on Endangered species day 2021 for the poster “Endangered rays of India” Bhagyalekshmi, V International Webinar on the conservation of life below water perspectives on syatematics, sustainable livelihoods and citizen science (University of Kerala) 2021

Best paper awards

- Best paper presentation award for the paper entitled "Taxonomy and diversity of Deep-Sea fish parasitic crustaceans off Indian Coast: Status and Knowledge Gaps. Aneesh P.T. International Webinar on the conservation of life below water perspectives on systematics, sustainable livelihoods and citizen science (University of Kerala)- 2021
- Best paper presentation award for the paper Is Jellyfish Fishery in India Sustainable? An Analysis of Jellyfish Fishery and Blooms in India, in the theme of Biodiversity Research and Utilization. Riyas A. International Webinar on the conservation of life below water perspectives on systematics, sustainable livelihoods and citizen science (University of Kerala)- 2021

Editorial Board Memberships/ Reviewer

- 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) (<https://www.jabf.in/index.html>)
- **Editor**, Journal of Threatened Taxa (<https://threatenedtaxa.org/index.php/JoTT/about/editorialTeam>)
- **Review Editor**, International Journal- Frontiers in Marine Science (<https://www.frontiersin.org/journals/marine-science>; <https://loop.frontiersin.org/people/594126/overview> impact factor: 4.912)
- 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

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)

Membership in Societies

Membership

- Member, Estuarine & Coastal Sciences Association, Germany
- 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

- 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

Membership in Expert Committees

- Member, Innovative Fish/Shrimp culture- Study Committee, Fisheries Department, Government of Kerala
- Co-ordinator, Environmental Auditing, University of Kerala (2016)
- Executive committee member, National Children's 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 (2018-2023).**
- Member in the Planning Board Working Committee for formulation of 14th five year plan report on Disaster Management
- Member, State Environmental Appraisal Authority of Kerala (SWAK)
- Member, State Wetland Authority, Kerala
- Member, technical advisory committee for coastal protection.
- Domain Expert Connect -Young Innovator's Programme, Kerala Development and Innovation Strategic Council (K-DISC)
- Member, Institutional Animal Ethics Committee, University of Kerala
- Member, committee for assessment of environmental damage in connection with fire hazard at Brahmapuram on 2nd March 2023 constituted by the Kerala State Pollution Control Board
- Chairman, Expert committee to evaluate and report the success and failure of the Biofloc farming methods, Department of Fisheries, Govt of Kerala (G.O.(Rt) No.43/2023/F&P, Dated 12/01/2023).

Policy Documents Prepared

- Involved in the policy document preparations: Kerala State Environment Policy; Kerala State Biodiversity Strategy and Action Plan
- Strategies and Action Plan for Shoreline Protection as an Adaptation to Climate Change in Kerala

Research Projects

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.

Research Projects

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:). (Budget: 24.28 lakhs).BT/PR13602/AAQ/03/508/2010 dated 30 September 2011 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.
12. “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)
13. “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)

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 Documentation of Coastal Biodiversity and Traditional Knowledge of Fishers and Traditional Knowledge: A Citizen Science Approach”- supported by University of Kerala (UO No. Ad AV/3232/UOK/ dated 15.10.2020)
- International Collaborative research project with with Lee Kong Chian Natural History Museum (LKCNHM), National University of Singapore (Project cost: US\$ 6000/-) titled “The Deep-Sea Decapod Crustaceans of Indian Seas: Taxonomy and Biogeography” [Order No. AD F1/ Ac.D/186772019 dated 30/6/2021]
- Microplastics and its chemical contamination in edible estuarine food fishes of Kerala, supported by the State Plan Grant (2022-23); Project cost: Rs. 300,000/-
- Establishment of DNA Barcode Library for the Estuarine and Backwater Fishes of Kerala, supported by University of Kerala (Project cost: Rs. 800,000/-)
- Project leader, project “ECO-MARINE: Building a Comprehensive Mechanism for Preserving Marine Ecosystems and Life from the negative consequences of Climate Change and the disposal of Plastic Debris” co-funded by the Erasmus + Programme of the European Union, with a financial support of 110,427 Euros (2022-24 period).

Publications

Research Papers

■ In peer-reviewed journals: **229**

■ In seminars/workshops, etc.: **164**

Books Published: **26** (20 in English and 6 in Malayalam)

Technical Documents/Reports: **8**

Chapters in Books: **53**

Edited Books: **31**

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

Popular Articles: about **238** (One in Hindi and others in English and Malayalam)

Programmes in Audio-visual Media

Research Papers

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

Documentary films: **8** (Expert commentaries)

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

List of Research Papers in Peer Reviewed Journals

■ Biju Kumar, A. 1995. Anchor worm (*Lernaea cyprinacea* L) infestation in ornamental fishes. *Journal of Inland Fisheries Society of India*, 27(1): 95-96.

■ Biju Kumar, A. 1996. Comparison of the metazoan parasite faunas of *Etropolis suratensis* (Bloch) and *E. maculatus* (Bloch) in India. *Rivista di Parassitologia*, 13 (57): 115-124.

■ Biju Kumar, A. & G.C. Kearn 1996. *Furcophaptor 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.

■ 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.

■ 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.

■ 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.

■ Kearn, G.C. & A. Biju Kumar 1997*. The adhesive attitude of the gill parasitic ancyrocephaline monogenean *Bifurcophaptor indicus*. *International Journal for Parasitology*, 27(5): 607-609.

■ 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.

■ Biju Kumar, A. 1997. Digenetic trematode parasites of the flatfishes (Pleuronectiformes) of the Kerala coast, India. *Acta Parasitologica*, 42(3): 149-157.

■ Biju Kumar, A. 1997. Cestode plerocercoids associated with the pleuronectid flatfishes of the Kerala coast, India. *Rivista di Parassitologia*, 14 (58): 119-130.

■ Biju Kumar, A. 2000. Exotic fishes

List of Research Papers in Peer Reviewed Journals

- and freshwater fish diversity. *Zoos' Print Journal*, 15(11): 363-367.
- 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.
 - Biju Kumar, A. & S. Sushama 2000. Ichthyofauna of Ponnani estuary, Kerala. *Journal of Marine Biological Association of India*, 42 (1&2): 182-189.
 - Biju Kumar, A. & S. Sushama 2001. The fish fauna of Bharathapuzha river, Kerala. *Journal of Bombay Natural History of India*, 98 (3): 464-468.
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Training Courses Attended

■ Attended the International Training Course, "Training Course on Fish Parasites" at the Institute of Parasitology, Academy of Sciences of Czech Republic, Ceske Budejovice, 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

Training Courses Attended

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 24th Kerala Science Congress at the Rubber Research Institute of India, Kottayam on 28th 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 27th and 28th 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.
- Online Workshop cum Orientation Programme on Leadership in Educational Administration for Academic Administrators in Universities and Colleges organized by the Department of Educational Administration of National Institute of Educational Planning and Administration (NIEPA), during Feb. 17-19, 2021.
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- Training on marine ecosystem monitoring at University of Oviedo, Asturias, Spain as part of Erasmus+ Capacity Building in Higher Education project grant titled Ecosystem and Life from the Negative Consequences of Climate Change and the Disposal of Plastic Debris –ECOMARINE; 8-14 December 2022.
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 - Biju Kumar, A. 2022. 'Theeramanayunna Thimingala Sravukal'. *Aranyam*, April 2022; 42 (8): 30-33 (in Malayalam)
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■ Biju Kumar A. 2023. 'Parinama Sasthram: Enthidupadikkanam'. Desabhimani Daily- Kilivathil, May 8, 2023.

Seminars/ workshops Organized

From 2008 onwards

■ 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).

■ 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).

■ 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)

■ 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).

■ Indian Science Congress hosted by Indian Space Research Organisation and University of Kerala held at Thiruvananthapuram during 3-7 January

2010 (Committee member).

■ National Seminar on "Health, Food and Agro-biodiversity Changing Paradigms. 12-14 February 2010, Calicut, Kerala (Secretary).

■ National Seminar on "Future of Indian Fisheries: Emerging Policy Paradigms" 19th March 2010 (Organising secretary)

■ 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).

■ "Let us Talk Biodiversity" workshop for school children at Science and Technology Museum, Thiruvananthapuram on 5th June, 2010 (Organising Secretary).

■ 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).

■ 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)

Seminars/ workshops Organized

- 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.
- One day workshop on Malayalam Names for Freshwater Fishes of Kerala christened “MeeninuOru 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.
- 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”.
- 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).
- 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)
- Workshop on “Emerging Statistical Tools in Life Sciences”, Department of Aquatic Biology and Fisheries, University of Kerala during 11-13 April 2012 (Chairman).
- 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)
- Training Workshop on Taxonomy of Brachyuran Crabs organized by the Department of Aquatic Biology and Fisheries during 9-11 January 2013 (Co-ordinator)
- 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)
- Workshop on Fisheries Data Analysis Using R Statistical Package during 21 – 23 April 2014 (Chairman)
- 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)
- 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.
- 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)

Seminars/ workshops Organized

- One-day seminar on “Water for Sustainable Development” on 30th March 2015 at Department of Aquatic Biology and Fisheries, University of Kerala.
- 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.
- 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).
- International Conference on Aquatic Exotics: Trends, Challenges and Policies” at Thiruvananthapuram, Kerala, India during 28-30 March 2016 (Convenor).
- 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).
- “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).
- 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.
- International Biodiversity Congress held at Forest Research Institute, Dehradun during 4-6 October 2018 organised by CISSA, Forest Research Institute and Navdanya (Organising Secretary)
- International Conference on Rivers for Future (RFF, 2020), 5 – 7 February, 2020, Department of Aquatic Biology and Fisheries, University of Kerala, Thiruvananthapuram.
- Annual National Conference on Sustainable Ecosystems, Aquaculture, Fisheries and Fisherfolk (AN-COSEAFF, 2019). 9-10 January, 2020, Department of Aquatic Biology and Fisheries, University of Kerala.
- 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).
- 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.
- Webinar “VOYO (Voice of Youth for Oceans)” organized by the Department of Aquatic Biology & Fisheries, University of Kerala on June 8, 2020.
- Webinar for School Children for ocean awareness - “KADALARIVU”- organized by the Department of Aquatic Biology & Fisheries, University of Kerala on June 8, 2020.
- 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.

Seminars/ workshops Organized

- Launch workshop titled “Survey and Documentation of Coastal Biodiversity and Traditional Knowledge of Fishers and Traditional Knowledge: A Citizen Science Approach”; University of Kerala February 12, 2021.
- Annual National Conference on Sustainable Ecosystems, Aquaculture, Fisheries and Fisherfolk (ANCOSEAFF, 2021) National University of Kerala March 4 - 5, 2021.
- International webinar “Sustainable Marine Fisheries and Aquaculture: Policies, Packages and Perspectives in Blue Economy Paradigm” (SMART P3BLUEECO-2021) International Indo-Canadian Institute Golden Jubilee Conference and Lecture Series Grant (GJCLSG); March 12-13, 2021.
- International Webinar on CONSERVATION OF LIFE BELOW WATER: Perspectives on Systematics, Sustainable Livelihoods and Citizen Science (COLIBA-2021); International University of Kerala; March 18-20, 2021.
- Online International Training Workshop on Ichthyotaxonomy (IT-WIT), 2021 International University of Kerala and Kerala University of Fisheries and Ocean Studies (KUFOS) March 23-27, 2021.
- Webinar on Biodiversity and Health organized by International Biodiversity Congress (IBC), Centre for Innovation in Science and Social Action (CISSA) and Navdanya; 22 May 2021.
- Online Consultative Workshop on Seashore Erosion in Kerala: Regional Environmental Action Forum, Kerala; 19 June 2021.
- Annual National Conference on Sustainable Ecosystems, Aquaculture, Fisheries and Fisherfolk [ANCOSEAFF 2022]; 28-29 January 2022 (Convenor)
- National Seminar on Restoring Wetlands for People and Nature; Department of Aquatic Biology & Fisheries; 2nd February 2022 (Organising Secretary).
- National Webinar on Surviving the Pandemic through Aquaculture: The Kerala Experience National University of Kerala; 24th and 25th February, 2022.
- Workshop on Biofloc Technology; National workshop; 7-20 February 2022.
- National Webinar on “Riparian Forest for Fish, Rivers and People towards ecological management of rivers Centre for Ecology, Taxonomy, Conservation and Climate change (CEtC) of Western Ghats Hornbill Foundation (WGHF); 21 May 2022.
- Photography Workshop for field biologists and taxonomists organized by the Department of Aquatic Biology and Fisheries, University of Kerala; 13 to 15 January 2023.
- International Workshop titled “Marine Debris and Microplastics Pollution: Assessment and Characterisation” during 29-31 May 2023, supported by Ecomarine Project of the European Union
- International Workshop, “Marine Biodiversity Monitoring and Biogeography: Emerging Trends in the Era of Data Science (MBMB- 2023)”, supported by Ecomarine Project of the European Union; 13th and 14th July 2023
- Seventh International Jellyfish Bloom Symposium, organized jointly with ICAR-Central Marine Fisheries Research Institute; 21 to 24 November 2023 at Arts and Crafts Village, Kovalam.

Seminars/ workshops Organized

- International Jellyfish Bloom Symposium Workshop on Integrative Taxonomy; Department of Aquatic Biology and Fisheries, University of Kerala; 25 to 27 November 2023.

- Basic National Training on “Blue Carbon Ecosystems and ClimateChange: Assessment Protocols”), supported by Ecomarine Project of the European Union; December 8, 2023.

Invited lectures

Selected: From 2007 onwards

- “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.

- “Challenges of Climate Change”. Lecture at the Environment Day Celebrations organized by Department of Civil Engineering, Government Engineering College, Thiruvananthapuram on 5th June 2007.

- “Climate Change and Coastal Ecosystems- Indian Perspective” in the National Seminar on “Global Warming and Coastal Ecosystems” organized by SuganthiDevadason Marine Research Institute in Collaboration with IUCN and CORDIO on June 8, 2007 at Tuticorin, Tamil Nadu.

- “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.

- “Environment and Sustainable Development” in the Seminar “BIOTRENDS 2007-2008” organized by Department of Zoology, SN College, Kollam on July 10, 2007.

- “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.

- “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.

- “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.

- “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.

- “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.

- “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.

Invited lectures

- “Animal Biodiversity” in the State-level Launching of the Eco-clubs and Seminar on Biodiversity” organised by Kerala State Biodiversity Board, Government of Kerala on March 11, 2008.
- “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.
- “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.
- “Environmental Education for Sustainable Development” in the Environment Day Celebrations at Christ Nagar College of Education, Thiruvallam, Thiruvananthapuram on June 26, 2008.
- “Pollution of Water, Rivers and Sea: The impacts of Pollution” in the seminar on “Environmental Protection for Protection of Life” organised by IthihaduShubbanilMhjahideen Kerala State Committee at Press Club, Thiruvananthapuram on 28 June, 2008.
- “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.
- “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.
- “Ornamental Fish Culture” in the training programme for aquaculture co-ordinators, in connection with MatsyaKeralam 2008 programme held at Thiruvananthapuram on December 1, 2008.
- “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.
- “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.
- “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.
- UGC Special Lectures on “Marine Biodiversity Conservation: Challenges and Opportunities” and “Globalisation and Fisheries” at Centre for Advanced Study in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu on 1st April 2009 (UGC Special Assistance Programme).
- “Marine Bioinvasion” – Invited presentation in the National Seminar on “Invasive Alien Species” organized by Kerala State Biodiversity Board at Thiruvananthapuram on 22 May 2009.
- “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

Invited lectures

University College, Thiruvananthapuram on 24 November 2009 in connection with Science Year 2009.

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Training programme on “Marine Ornamental Fish Culture” held at Vizhinjam Research Centre of CMFRI, Thiruvananthapuram on 20-7-2010. Topic: Indigenous Ornamental Fishes.
- 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.
- National Seminar on “Biodiversity and Sustainable Development” organized by SreeAyyappa College for Women, Nagercoil, Kanyakumari on 02 October 2010. Invited presentation: Western Ghats Biodiversity-Challenges for Conservation.
- 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.
- 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.
- 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.
- 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

Invited lectures

Sustainable Management” organised by Department of Zoology, Christian College, Chenagnur, Kerala.

■ 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.

■ 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.

■ 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.

■ 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.

■ 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.

■ 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.

■ 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.

■ 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.

■ Invited presentation on “Sustainable Economy and Development” in the seminar in connection with World Environment Day, 6th June 2012 at BharatheeyaVicharaKendram, Thiruvananthapuram.

■ “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.

■ “Biodiversity Informatics” in the XXI Refresher Course in Environmental Sciences organised by UGC Academic Staff College, University of Kerala on 5th October 2012.

■ 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.

■ Chaired technical session on “My

Invited lectures

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.

- 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 .

- 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.

- 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.

- 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.

- “Climate Change: Implications on Biodiversity and Ecosystems”. Invited presentation at SN College, Varkala, Kerala on 18th January 2013.

- 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.

- Invited talk on “Marine Biodiversity and DNA Barcoding” at Temasek Polytechnic, Singapore on 1st June 2013.

- 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.

- Modern tools in biodiversity conservation (Refresher course in Life Sciences). UGC-Academic Staff College, University of Kerala on 2.7.2013.

- 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.

- 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.

- Lecture on “Western Ghats, Environment and Development” in the Interdisciplinary Refresher course at UGC-Academic Staff College, University of Kerala on 11. 09.2013.

- 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.

- 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-

Invited lectures

Neelakanta Govt. Sanskrit College, Pattambi, Kerala on 4th December 2013.

■ 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, Tanjavoor, Tamil Nadu on 6th December 2013.

■ 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.

■ 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.

■ 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.

■ Invited presentation on “Main-streaming 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.

■ Introductory lecture in the Workshop on Conservation of Western Ghats organized by BharatheeyaVicharaKendram, Thiruvananthapuram on 01 June 2014.

■ 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).

■ 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).

■ 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.

■ 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.

■ 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.

■ Served as the resource person of the XXIII Refresher Course in Environmental Sciences on 22 January 2015

■ “Wetlands for Future” at the Wetland Day Celebrations organised by the Nature Club, Department of Zoology, University of Kerala on 2nd February 2015.

■ 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.

■ “The Future We Want: Sustainable

Invited lectures

Solutions for Conservation” in the National Seminar on Environment and Development Issues in Kerala organized by the Department of Economics on 30th March 2015.

■ 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.

■ 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.

■ Lecture on Research Ethics and Plagiarism at the Workshop on Research Methodology organised by the Research Students’ Union and IQAC on 29th May 2015.

■ Lecture on “Oceans Around Us” at St Roch’s School, Sanghumughom on 8th June 2015.

■ 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.

■ 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.

■ 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.

■ 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.

■ 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, Kozhencherry on 30 September 2015.

■ “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.

■ “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.

■ Keynote address on the topic “Mainstreaming climate change in marine biodiversity conservation: Scope and challenges for India” in the national seminar on “Marine Biore-sourcess: Prospects and Threats” organised by St. Mary’s College, Tuticorin, Tamil Nadu on 11 February 2016.

■ “Environmental DNA for biomonitoring” in the National Seminar on “Recent Trends in Wetland Pollution Studies using Bio-Monitoring Proto-

Invited lectures

- col” organised by P.G. and Research Department of Zoology, N.S.S. College, Pandalam on 23 February 2016.
- “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.
 - 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.
 - 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.
 - 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).
 - Climate change and livestock productivity: the role of indigenous breeds. Invited paper presented in Kapila Fest 2016, CMS College, Kottayam on 28 May 2016
 - Environment day lecture on “Environmental Concerns and Our Common Future” organised by TKM College of Arts and Science on 6th June 2016.
 - Lecture on “Environmental Crisis Our Common Future” organised by St. Xavier’s College, Thumba on 8th June 2016.
 - 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 2nd February 2017.
 - Biju Kumar, A. (2017). Sasthravum-manavikathayum- Vibhavasamahanathintekaivazhikal (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 16th February 2017 (oral)
 - Biju Kumar, A. (2017). Biodiversity for sustainable development. 3rd National Biodiversity Conference jointly organized by Kerala State Biodiversity Board, National Biodiversity Authority of India, KSCSTE and NABARD during 24h February 2017 (oral).
 - 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).
 - 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 1March 2017 (oral).
 - 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)
 - Biju Kumar, A. (2017). Climate

Invited lectures

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 23rd March 2017 (oral).

■ 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).

■ 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).

■ 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)

■ 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 14th December 2017.

■ National Seminar on Interdisciplinary Approaches in Materials and Biological Research (IAMBR- 2018) organised by Mahatma Gandhi College, Thiruvananthapuram on 17th February 2018 and delivered a keynote address on "The Fun of Being a Biologist".

■ Lecture at UGC-Human Resource Development Centre of University of Kerala in the Short Term Course in Research Methodology on 22nd February 2018 on the topic "Research Methodology for Science".

■ Invited theme presentation on the topic "Science and Technology for Sustainable Development" in the National Science Day celebrations organised by University College, Thiruvananthapuram on 26th February 2018.

■ World Ocean Conference 2018 organised by Ocean Love and Bond Safari at Hotel Udaya Samudra, Kovalam on 8th June 2018 and delivered a lecture on "Ocean Awareness: The Way Forward".

■ 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".

■ Lecture at UGC-Human Resource Development Centre of University of Kerala in the Refresher Course in Life Sciences on 10th September 2018 on the topic "United Nations Sustainable Development Goals: New Biology and the Role of Biologists".

■ 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.

■ 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 21st

Invited lectures

Century organized by Mahatma Gandhi College, Trivandrum on January 25, 2020.

■ 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.

■ 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.

■ 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.

■ 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.

■ Invited lecture on “Plastic pollution and Marine Life” in the webinar in connection with the Celebration of SwachhtaPakhawada 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

■ 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, Kozhikode on 29 July 2020

■ 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.

■ 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.

■ 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

■ 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.

■ 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

■ 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

■ 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.

Invited lectures

Jayalalithaa Fisheries University, Thoothukudi District. Tamil Nadu on 21.11.2020.

- Invited talk on “The Fun of Being a Zoologist” in the International Webinar Series organized by PRNSS College, Mattannur, Kannur on 11 December 2020.
- 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.
- “Aliens in Indian Aquascapes and Strategies for Management” in the webinar on the same topic, organised by MoEFCC’s ENVIS Resource Partner on Biological invasion at Amrita Vishwa Vidyapeetham, Coimbatore on 20th of January 2021.
- “Deep Sea Crustaceans” in the National Conference on Deep Sea Bioresources in Indian Ocean organised by Zoological Survey of India, Ministry of Environment, Forest and Climate Change on 26th February 2021.
- “Climate change, coral reefs and fisheries sustainability: emerging paradigms” on the “International Symposium on Coastal Agriculture: Transforming Coastal Zone for Sustainable Food and Income Security” organised by Indian Society of Coastal Agricultural Research, ICAR - Central Soil Salinity Research Institute during 18 March 2021.
- World Environment Day lecture on 3rd June 2021 at the Azadi Ka Amrit Mahotsav organised by the National Green Corps and Kerala State Council for Science, Technology and Environment.
- Ecorestoration in the Webinar on Ecosystem Restoration organised by St. Thomas College, Bhilai on 5th June, 2021.
- “Research gaps in Taxonomy” in the Marine Biology Research Symposium - MBRS 2021 organised by the Centre for Climate Change Studies, Sathyabama Institute of Science and Technology, Chennai on 27th July 2021.
- Aquatic alien species of Kerala in the “Conference on Bioresources and Commercial Utilization - Trends, Supply Chain and Sustainability” organised by the Kerala State Biodiversity Board on 28th September 2021.
- “Environment and Human Rights” in the Refresher Course in Human Rights organised by the Human Resource Development Centre on 16.09.2021
- “Sustainable Marine Fisheries and Marine Biodiversity Conservation in Blue Economy Paradigms” in the India – Russia Scientific Conference, “Marine Biology Biodiversity and Blue Economy” organised by Embassy of Russia in India, Ministry of Earth Science, Russian Academy of Sciences and CSIR on 27th October 2021.
- Climate Crisis and Nature-based solutions. Biju Kumar, A. State-level Online Climate Leadership Training Programme with Special Focus on Mitigation and Adaption, organized by Christian College, Kattakada on 6th March 2022
- Ecology of rivers with special reference to Kerala and aquatic biodiversity at River Health Monitoring and Restoration: A Training Programme using Biological indicators for River health and restoration on organised by M. S. Swaminathan Research Foundation, at Tarangam Mission Action Centre, Chengannur on March 14, 2022.
- Framework for River Life Awareness and Management and Establishment of Best Management Practices (BMPs) to reduce vulnerabilities with respect to Catchment health, Chan-

Invited lectures

nel health, Flow health, and Flood plain health” at Training Programme using Biological indicators for River Health and Restoration” organised by M. S. Swaminathan Research Foundation and Asia Pacific Network for Global Change Research at Tarangam Mission Action Centre, Chengannur on April 18, 2022.

■ Sustainable Marine Fisheries: The Way Forward: at National conference on “Freshwater and Marine Fisheries in India” organized by St. Aloysius College, Managaluru (Abstract Book Page No. 16); May 10, 2022

■ From DNA Barcodes to Conservation Genomics: How molecules Define Sustainable Development Paradigms at National Symposium on Biotechnology for Sustainable Development organised by Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram; July 27, 2022.

■ Impact of climate change on ecosystems and biodiversity at Shri C. Achutha Menon memorial lecture, organized by C. Achutha Menon Centre, Thiruvananthapuram; 16th August 2022.

■ Climate change and Kerala at March for Science programme organized by India March for Science, at Sathyan memorial Hall; August 27th 2022.

■ Sea and Life at Workshop on Clean Ocean safe Ocean organised by Kerala State Science and Technology Museum with Vigyan Prasar at Priyadarshini Auditorium; September 5th 2022.

■ Marine Debris and UN Sustainable Development Goals: A framework for integrating the plastic and carbon neutrality concepts in Education for Sustainable Development (ESD) for 2030 at 7th International Marine Debris Conference (7IMDC), Busan, the Republic of Korea, organised by Ministry of Oceans and Fisheries (MOF)

and the United Nations Environment Programme (UNEP) and organized by Korea Marine Environment Management Corporation (KOEM; 18th-23rd of September, 2022

■ Marine biodiversity conservation. Lecture at Ram Hattikudur Advanced Training in Conservation by Zoo Outreach Organization, Coimbatore, October 21 and 22, 2022

■ Nobel Prize in Physiology and Medicine 2022; Laurels to Nobel Laureates” organised by Mar Ivanios College, Thiruvananthapuram; November 3rd 2022

■ Options for Sustainable Marine Fisheries in India in the Context of Blue Economy and Climate Change Paradigms at International Conference on Aquatic Life and Mitigation Measures for Sustainable Blue Economy – 2022 (ICCAMS- 2022) organized by Department of Zoology, FMN College, Kollam, Kerala November 24th 2022 (Abstract Book, Page No. 10).

■ Status of biological invasions in the Arabian Coast at National Conference “Bioinvasions: Trends, Threats and Management. Organised by Kerala State Biodiversity Board at Kerala Arts and Crafts Village, Kovalam December 3rd 2022

■ Mainstreaming climate change and sustainability in higher education: the way forward; Refresher Course in Environmental Sciences” organized by UGC-Human Resource Development Centre (HRDC), University of Kerala; December 5th 2022.

■ Biju Kumar A. 2023. Ecosystem services, restoration of coastal ecosystems, and United Nations Sustainable Development Goals. In: International Seminar on Biodiversity Conservation and Management” organized by Women’s Christian College, Nagercoil on 22 February 2023.

Invited lectures

- Biju Kumar A. 2023. The Crucial Role of Biologists in Shaping a Sustainable Future for Biodiversity” MC Gopinathan Lecture 2023-24, organised by Government Victoria College, Palakkad on 2nd November 2023.
- Biju Kumar A. 2023. Addressing Wallacean and Eltonian Shortfalls in shortfalls of biodiversity knowledge: Challenges and Way Ahead. In: Animal Taxonomy Summit organized by Zoological Survey of India, Kolkata; 1-3 July 2023 (ISBN: 978-81-8171-615-6)
- Biju Kumar A. 2023. Nature-Based Solutions and Climate Change Mitigation: Challenges and Way Forward. National Conference on Environmental management towards sustainability [NCEMS 2023], Nesamony Memorial Christian College, Marthandam, Tamilnadu, 14 April 2023.
- Biju Kumar A. 2023. Ecological significance and Biodiversity values of the Periyar riverscape. In: National River Conservation Plan- Periyar Initiative: Inception Cum Training Workshop For Stakeholders Of Periyar Riverscape, organized by Kerala Forests and Wildlife Department and Wildlife Institute of India, at Periyar Tiger Reserve on 6th February 2023.
- Biju Kumar A. 2023. Science writing in Malayalam: Opportunities and Challenges. In: Workshop on Academic Writing organized by Kerala State Institute of Languages and Govt. College for Women, Thiruvananthapuram on 24 July 2023.

List of PhDs Awarded

Name of Student	Title of the Thesis	Year awarded
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
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
Sreeja, V.	Taxonomy and diversity of cephalopods (Mollusca: Cephalopoda) of Kerala coast (No.Ac.E.I.B2/9292/2008 dated 27.05.2008)	2014
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
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
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
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
Reshmi R.	Taxonomy and Diversity of Anomuran Crabs (Decapoda: Anomura) of Kerala Coast (No. Ac.E.I.B1/34579/2008 dated 22/08/2009)	2015
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

List of PhDs Awarded

Name of Student	Title of the Thesis	Year awarded
Preetha Karnaver	Taxonomy and diversity of gastropods (Mollusca: Gastropoda) of Kerala coast (No.Ac.E.I.B1/2284/07 dated 13.11.2007)	2017
Ravinesh R.	Biodiversity of mollusan fauna of the Union Territory of Lakshadweep (AcE1.B/113/AQB/14442/1 dated 11/07/2013)	2017
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
Sneha Chandran B.K.	Molecular Taxonomy and Phylogeny of Opisthobranchs (Mollusca: Gastropoda) of Lakshadweep and West Coast of India (Ac.E.II/3/6080/18)	2019
Arathi, A.R.	Taxonomy and Diversity of Bivalve Molluscs of Lakshadweep and West Coast of India (Ac.E.II/1/6129/18)	2019
Smrithy Raj	Survey and Mapping of Exotic Freshwater Flora and Fauna in Kerala (AcE1.B/713/AQB/10502)	2022
Sri Riyas, A.	Taxonomy of Neritic Jellyfishes(Cnidaria: Scyphozoa and Cubozoa) and Studies on Jellyfish Blooms from the Kerala Coast, India (AcEV1 (1)/116/AQB/13887/2016 dated 10.2.2017)	2022
Mr Mosab Ali Mohamad Ali Alzahaby (Foreign Student)	Diversity and Reproductive Biology of Wrasses (Perciformes: Labridae) of Southwest Coast of India (Ac.D/1/016430/RO/2018/ dated 05.01.2019)	2022
Smt Bhagyalekshmi Venugopal	DNA Barcoding and Phylogeny of Batoid Fishes (Chondrichthyes: Batoidea) of Southwest and Southeast Coasts of India (AcEV1 (1)/116/AQB/14110/2016 dated 9.1.2017)	2023

Post doctoral fellows

- Dr Dhaneesh KV (UGC Kothari Post Doctoral Fellow; 2014-2018)
- Dr Aneesh PT (UGC Kothari Post Doctoral Fellow; 2017-2021)
- Dr Ravinesh R (Kerala University PDF; 2019-2021)
- Dr Swetha S. (Kerala University PDF; 2020-2022)
- Dr Jini Jacob (KSCSTE Back-to-Lab Post-Doctoral fellowship; 2023-25)
- Dr Smrithy Raj (Kerala University PDF; 2023-2025)

Details of current PhD students

Name (specify whether foreign/SC/ST/OBC)	Title of thesis	U.O. Number and date	Effective date of registration	Availing fellowships (specify UGC JRF/I)
Sri Rajesh L	Taxonomy and Diversity of Freshwater Crabs (Crustacea: Brachyura) of Kerala	Ac.E1.B/713/AQB/10502 26.10.13	26.10.13	Kerala University
Sri Nisanth, H.P.	Biodiversity and Foraging Ecology of Seabirds of Lakshadweep and Kerala Coast Using Satellite Telemetry and Data Loggers	No. AcEVI (1)/717/AQB/15794/2017 dated 07.12.2017	07.12.2017	INSPIRE
Sri. Vishnuraj R.S	Diversity and Distribution of Fishes and Frogs of the Agasthyamala Biosphere Reserve	AcEVI (1)/118/AQB/16600/2018/ dated	03.06.2017	RGNF
Smt Soumya KR	Phytotelmata: Biodiversity Survey of Hidden Freshwater Habitats of the Southern Western Ghats, With Special Focus on Ethology of The Phytotelm-Inhabiting Arboreal Crab, <i>Kani Maranjandu</i> Kumar, Raj & Ng, 2017.	Ac.EVI(1)/119/AQB/19099/2019	27.6.2019	INSPIRE
Smt Chinnu Vishwanathan	Diversity and Distribution Patterns of the Molluscs of Ashtamudi Lake, Kerala, India	Ac.EVI(1)/120/AQ/21687/2020	21.01.2020	Joint CSIR-UGC JRF
Sri Vishnu H.	Integrative Taxonomy of Sharks in Kerala and Tamil Nadu Coasts of India, with a focus on Deepsea Species	Ac.EVI/6164/2022/UOK dated 1.8.2022	20.07.2022	Kerala University
Arun CR	Intertidal Biodiversity Mapping of Selected Rocky Shore Regions of Kerala Coast, India	Ac E VI/4584/2023/UOK dated 29.05.2023	25.05.2023	Kerala University

List of MPhil dissertations

Name of Student	Title of the Dissertation	Year
Smt. Apsara S. Krishnan	Biodiversity of shrimps associated with trawl fishery at Neendakara and Sakthikulangara fishing harbours, Kerala	2009
Sri. Baiju, P.T.	Marine ornamental fish diversity of Vizhinjam Bay, Lakshadweep Sea	2009
Sri. Ravinesh, R.	Comparison of intertidal biodiversity of artificial sea wall and natural rocky shores: a case study	2009
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
Sri. Ratheesh, R.	Diversity of aquatic insects in Vellayani Lake, Kerala	2010
Smt. Raji, M.P.	Food and feeding analyses and food spectrum of fish fauna of Sasthamkotta Lake, Kerala	2011
Smt. Ambili, T.	Benthic Ecology and sediment texture of upper Chittar river, Kerala	2011
Smt. Akhila, G.L.	Water quality and Planktonology of upper Chittar river, Kerala	2011
Smt. Renjini, M.R.	Ectoparasites of selected marine ornamental fishes of Kerala Coast	2011
Smt. Anila, A.S.	Shell selection by the hermit crab <i>Coenobita rugosus</i> H. Milne Edwards (Crustacea: Decapoda: Coenobitidae)	2012
Smt. Souji, S.	Taxonomy and diversity of bivalve molluscs (Mollusca: Bivalvia) of South Kerala Coast	2012
Sri Apreshgi, K.P.	Diversity of Brachyuran Crabs in Selected Mangrove Ecosystems of Kerala	2013
Smt. Binsha, R.	Diversity of hermit crabs (Crustacea: Anomura) of Lakshadweep	2013
Smt. Lekshmi, S.	Biodiversity of Brachyuran Crabs of the Rocky Shores of Southern Kerala	2013
Sri Arun, K.S.	Taxonomy of sponges (Phylum: Porifera) of southern west coast of India	2016
Anjana, V.L	Biodiversity of molluscan fauna of Ashtamudi estuary, Kerala	2017
Salini S Pillai	Shell polymorphism and taxonomy of <i>Babylonia</i> Schlüter, 1838 (Gastropoda: Babyloniidae) from south India: a morpho-molecular study	2017
Araya Sudhakaran	Biodiversity and Associations of Selected Marine Alpheid Shrimps (Crustacea: Alpheidae) of South India	2018
Geethu, M.	Integrative Taxonomy of Sea Anemones (Cnidaria: Anthozoa) of Kerala Coast	2018
Anupama, V.S.	Gut Content Analysis of Exotic Red Bellied Pacu [<i>Piaractus Brachypomus</i> (Cuvier 1818)] from Vembanad-Kole Wetland, Kerala	2019
Arya Raj, D.	Taxonomy of Rocky Shore Sponges of Southern West Coast of India	2019
Amrutha Prakash	Taxonomy of Brachyuran Crabs on Rocky Shore Habitats of South Kerala	2019
Archana Satheesh	Diet Spectrum of Guppy, <i>Poecilia reticulata</i> (Family: Poeciliidae) Invading Streams of the Southern Western Ghats	2021
Sruthi S.R.	Food and Feeding Ecology of Native Paradise fish <i>Pseudosphromenus dayi</i> (Köhler, 1908) and Alien Three-Spot Gourami <i>Trichopodus trichopterus</i> (Pallas, 1770) Coexisting in a Coastal Wetland in Kerala	2021
LAXMIKA ANIL, A.	The Diversity and Abundance of Finfish in Ashtamudi Lake, A Ramsar Site in Southwest Coast of India	2022
ARUN C.R.	Documentation of Macrofaunal Biodiversity of The Coastal Waters of Alappuzha District, Kerala and Traditional Environmental Knowledge of Marine Fishers	2022

Research Contributions (new species/ records)

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, Sesarimidae) described from Kannur, Kerala by Devi and Peter, 2020.
- *Renocila bijui* Aneesh, Bruce, Nashad, Bineesh & Hatha, 2020- Parasitic isopod of fish (Isopoda: Cymothoidae) described from Andaman and Nicobar Island, India

New Family

- Family URANOSCOPICOLAIDAE Helna, Aneesh, Biju Kumar and Ohtsuka 2023 (under Order CYCLOPOIDA Burmeister, 1834; Suborder ERGASILIDA Khodami et al., 2019): a new family of parasitic copepod infesting deepsea fish.

New Genera described

- *Furcophaptor* Biju Kumar and Kearn 1996 (Monogenea: Dactylogyridae)
- *Baculochondria* Ho, Kim & Biju Kumar 2000 (Copepoda: Chondracanthidae)
- *Karkata* Pati, Rajesh, Smrithy, Sheeja, Biju Kumar and Sureshan 2017 (Decapoda:Brachyura)
- *Kani* Biju Kumar, Smrithy and Ng 2017 (Decapoda: Brachyura: Gecarcinucidae)
- *Brucethoa* Aneesh, Hadifield, Smit, Kumar 2020 (Crustacea: Isopoda: Cymothoidae)
- *Rajathelphusa* Smrithy, Biju Kumar and Ng 2021 (Decapoda: Brachyura: Gecarcinucidae)
- *Pavizham* Smrithy, Biju Kumar and Ng 2022 (Decapoda: Brachyura: Gecarcinucidae)
- *Hiroadai* Aneesh, Helna, Biju

Kumar and Ohtsuka 2023 (Crustacea: Isopoda: Cymothoidae)

- *Glyptothoa* Helna, Aneesh, Biju Kumar and Maran 2023 (Crustacea: Isopoda: Uranoscopicolidae)

New Species discovered

- *Furcophaptorcynoglossi* Biju Kumar and Kearn 1996 (Monogenea: Dactylogyridae)
- *Monorcheideshafeezullahi* Biju Kumar 1997 (Digenea: Monorchidae)
- *Baculochondria papilla* Ho, Kim and Biju Kumar 2000 (Copepoda: Chondracanthidae)
- *Acanthochondria zebriae* Ho, Kim and Biju Kumar 2000 (Copepoda: Chondracanthidae)
- *Heterochondria petila* Ho, Kim and Biju Kumar 2000 (Copepoda: Chondracanthidae)
- *Ciliopagurus grandis* Komai, Reshmi and Biju Kumar 2012 (Crustacea: Decapoda: Anomura: Diogenidae)
- *Rhabdochona* (*Rhabdochona*) kerala ensis Moravec, Sheeba and Biju Kumar 2012 (Nematoda: Rhabdochonidae)
- *Diogenes canaliculatus* Komai, Reshmi and Biju Kumar 2013 (Crustacea: Decapoda: Anomura: Diogenidae)
- *Pagurus spinossior* Komai, Reshmi and Biju Kumar 2013 (Crustacea: Decapoda: Anomura: Diogenidae)
- *Mursia arabica* Bijukumar, Sushilkumar and Galil 2013 (Crustacea: Decapoda: Brachyura: Mursidae)
- *Paguristes luculentus* Komai, Reshmi and Bijukumar 2015(Crustacea: Decapoda: Anomura: Diogenidae)
- *Afropinnotheres ratnakara* Ng and Biju Kumar 2015 (Crustacea: Decapoda: Brachyura: Pinnotheridae)
- *Moloha tumida* Ng and Biju Kumar 2015 (Crustacea: Decapoda: Brachyura: Homolidae)

Research Contributions (new species/ records)

- *Cistopus platinoidus* Sreeja, Norman and Biju Kumar, 2015 (Mollusca: Cephalopoda: Octopoda: Octopodiidae)
- *Carcinoplax fasciata* Ng and Biju Kumar, 2016 (Crustacea: Decapoda: Brachyura: Goneplacoidea)
- *Karkata ghanarakta* Pati, Rajesh, Smrithy, Sheeja, Biju Kumar and Sureshan 2017 (Decapoda: Brachyura) (Pati et al., 2017)
- *Karkata kusumbha* Pati, Rajesh, Smrithy, Sheeja, Biju Kumar and Sureshan 2017 (Decapoda: Brachyura) (Pati et al., 2017)
- *Pilarta aroma* Pati, Rajesh, Smrithy, Sheeja, Biju Kumar and Sureshan 2017 (Decapoda: Brachyura) (Pati et al., 2017)
- *Pilarta punctatissima* Pati, Rajesh, Smrithy, Sheeja, Biju Kumar and Sureshan 2017 (Decapoda: Brachyura) (Pati et al., 2017)
- *Cylindrotelphus abbreviphallus* Pati, Rajesh, Smrithy, Sheeja, Biju Kumar and Sureshan 2017 (Decapoda: Brachyura) (Pati et al., 2017)
- *Cylindrotelphusa longiphallus* Pati, Rajesh, Smrithy, Sheeja, Biju Kumar and Sureshan 2017 (Decapoda: Brachyura) (Pati et al., 2017)
- *Kani maranjandu* Biju Kumar, Smrithy and Ng 2017 (Decapoda: Brachyura: Gecarcinucidae) (Biju Kumar et al., 2017)
- *Typhlocarcinus kerala* Ng, Suvarna Devi and Biju Kumar, 2017 (Crustacea: Brachyura: Pilumnidae) (Ng et al., 2017)
- *Petrarctus jeppiaari* Yang, Biju Kumar and Chan, 2017 (Crustacea, Decapoda, Scyllaridae) (Yang et al., 2017)
- *Oziotelphusa ravi* Raj, Kumar and Ng 2017 (Crustacea: Decapoda: Brachyura: Gecarcinucidae) from Tamil Nadu, southern India (Raj et al., 2017)
- *Heterocarpus fascirostratus* Yang, Chan and Biju Kumar 2018 (Crustacea: Decapoda: Panalidae) from western Pacific Ocean (Yang et al., 2018)
- *Diogenes spongicola* Komai, Ravinesh and Kumar 2018. (Crustacea: Decapoda: Diogenidae) from southwest and southeast coasts of India (Komai et al., 2018)
- *Parilia pattersoni* Ng, Suvarna Devi and Biju Kumar 2018 (Crustacea: Decapoda: Leucosiidae) from the eastern Indian Ocean (Ng et al., 2018)
- *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)
- *Polybranchia burni* Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018
- *Polybranchia jannae* Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018
- *Polybranchia jensenae* Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018
- *Polybranchia mexicana* Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018
- *Polybranchia samanthae* Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018
- *Polybranchia schmekelae* Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018
- The Signal fish *Pteropsaron indicum* Victor and Kumar, 2019 (Teleostei: Trichonotidae: Hemerocoetinae) from Indian coast (Victor and Kumar, 2019)
- *Elthusa uranoscopus* Aneesh, Helna, Kumar & Trilles, 2020. <http://www.marinespecies.org/aphia.php?p=tax-details&id=1453573>
- *Elthusa pseudorhombus* Aneesh, Helna, Kumar & Trilles, 2020; <http://>

Research Contributions (new species/ records)

www.marinespecies.org/aphia.php?p=taxdetails&id=1453572

- *Ethusa fistularia* Aneesh, Helna, Kumar & Trilles, 2020. <http://www.marinespecies.org/aphia.php?p=taxdetails&id=1453571>.
- *Acanthochondria krishnai* Aneesh, Helna & Kumar, 2020. <http://www.marinespecies.org/aphia.php?p=taxdetails&id=1442656>.
- *Chondracanthus kabatai* Aneesh, Helna & Kumar, 2020. <http://www.marinespecies.org/aphia.php?p=taxdetails&id=1442661>.
- *Brucethoa baratha* Aneesh, Hadfield, Smit, Kumar 2020
- *Nephropsis pygmaea* Chan, Chan and Kumar 2020 (Lobster from Thailand and Philippines)
- *Paramunida bineeshi* Macpherson, Chan, Kumar & Rodriguez-Flores, 2020 (Squat lobster from
- *Anilocra grandmaae* Aneesh, Hadfield, Smit and Kumar 2021; Parasitic isopod (Crustacea: Isopoda: Cymothoidae) from fish *Tenualosatoli* (Aneesh et al., 2021)
- *Lernaenicus megalaspis* Aneesh, Helna, Kumar and Maran 2021; parasitic copepod (Siphonostomatoida: Pennellidae) from fish *Megalaspiscordyla* (Aneesh et al., 2021)
- *Lobothorax nicosmiti* Aneesh, Bruce and Kumar 2021; Parasitic isopod (Crustacea: Isopoda: Cymothoidae) from fish *Promethichthys promethicus* from India) (Aneesh et al., 2021)
- *Rajathelphusa ala* Smrithy, Biju Kumar and Ng 2021; Land crab from Idukki district of Kerala (Decapoda: Brachyura: Gecarcinucidae)
- *Rajathelphusa muni* Smrithy, Biju Kumar and Ng 2021; Land crab from Idukki district of Kerala (Decapoda: Brachyura: Gecarcinucidae)
- *Norileca hathai* Aneesh, Nashad and Kumar, 2021; parasitic copepod

(Crustacea: Isopoda: Cymothoidae) from fish *Caranx heberi* (Bennett, 1830) (Carangidae) from off Burmanallah, South Andaman, India (Aneesh et al., 2021)

- *Pavizham gavi* Smrithy, Biju Kumar and Ng 2022; Land crab from Gavi, Pathanamthitta district of Kerala (Decapoda: Brachyura: Gecarcinucidae)
- *Rajathelphusa brunnea* Smrithy, Biju Kumar and Ng 2022 Land crab from Idukki district of Kerala (Decapoda: Brachyura: Gecarcinucidae)
- *Hiroadai ohtsukai* Aneesh, Helna, Biju Kumar and Maran 2023 (Parasitic isopod from fish *Uranoscopus guttatus* collected from Colachal, Tamil Nadu coast; Crustacea: Isopoda: Uranoscopicolidae)
- *Glyptothoa sagara* Helna, Aneesh, Biju Kumar and Ohtuska, 2023, parasitic isopod infesting deep-sea fish *Glyptothidium macropus* collected from Neendakara, Kollam-district, Kerala (Crustacea: Isopoda)

New records/rediscovers

- Recorded the Khaki flounder *Laeops natalensis* Norman (Pisces: Bothidae) for the first time from Indian coast (2008; Indian Journal of Fisheries)
- 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)
- Hermit crabs *Coenobita brevimaus* and *Coenobita rugosus* (Crustacea: Decapoda: Anomura) from the Indian Coast (2010; Marine Biodiversity Records (Marine Biological Association of United Kingdom).
- Reported the sea cucumber *Trachasina crucifera* (Semper) (Echinodermata: Holothuroidea: Cucumariidae) from India (Deepa and Biju Kumar, 2011)

Research Contributions (new species/ records)

- Rediscovered and redescribed endemic Kerala mud snake, *Enhydryis dussumierii* (Duméril, Bibron & Duméril, 1854) from India (2011; Current Science).
- Reported hermit crabs, *Calcinus morgani* and *Diogenes klaasi* (Crustacea: Anomura: Diogenidae) from India (2011; Journal of Threatened Taxa)
- Reported reticulated moray, *Muraena retifera* (Fishes: Anguilliformes: Muraenidae) from the Indian coast (2011; Marine Biodiversity Records of Marine Biological Association of the United Kingdom).
- Reported octopuses *Amphioctopus neglectus* and *A. rex* (Mollusca: Cephalopoda) from the Indian coast (2012; Molluscan Research).
- Reported Sawspinespikefish, *Paratriacanthodes retrospinis* Fowler, 193 (Pisces: Tetraodontiformes: Triacanthodidae) from Indian waters (Check List, 8(4): 752–753, 2012)
- The slug *Dendrodoris coronata* (Kay & Young, 1969) recorded from Lakshadweep is the first report in Western Indian Ocean (Ravinesh et al., 2013).
- 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).
- 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).
- The brachyran crab *Arcania brevifrons* Chen, 1989 is reported for the first time in India (Biju Kumar et al., 2013)
- The brachyran crab *Myra pernix Galil*, 2001 is reported for the first time in India (Biju Kumar et al., 2013)
- Recorded the hermit crab *Ciliopagurus liui* Forest, 1995 for the first time from Indian Ocean (Komai et al., 2013a)
- Recorded the hermit crab *Dardanus lagopodes* (Forsk., 1775) for the first time from Indian Ocean (Reshmi and Biju Kumar, 2013)
- Recorded the hermit crab *Oncopagurus monstrosus* (Alcock, 1894) for the first time from Indian Ocean (Reshmi and Biju Kumar, 2013)
- Recorded the hermit crab *Paguristes miyakei* Forest & McLaughlin, 1998 for the first time from Indian Ocean (Reshmi and Biju Kumar, 2013)
- Reported gastropod mollusc *Granulifusus poppei* (Mollusca: Fasciolaridae): First report from Indian coast (Preetha et al., 2014)
- Reported the sea slug *Polybranchia orientalis* (Mollusca: Sacoglossa: Caliphyllidae) for the first report from west coast of India (Ravinesh et al., 2014)
- Reported *Propeamussium arabicum* Dijkstra & Janssen, 2013 (Mollusca: Bivalvia: Propeamussiidae) for the first report from west coast of India (Arathi et al., 2014)
- Reported Sea anemone *Anthopleura buddemeieri* (Cnidaria: Actiniaria: Actiniidae) from India (Bijukumar et al., 2015)
- Reported the octopus *Cistopus tawanicus* Liao & Lu, 2009 (Cephalopoda: Octopodidae) from the Indian Coast (Sreeja et al., 2015)
- Black-ringed *Aplysia dactylomela* Rang, 1828 recorded and confirmed from India (Sheha Chandran et al., 2016)
- Reported *Anteaeolidiella fijensis* (Mollusca, Nudibranchia, Aeolidiidae)

Research Contributions (new species/ records)

from India (Carmona et al., 2017)

- Reported Indian hagfish *Eptatretus* sp. (Cyclostomata: Myxinidae) from India (Fernholm et al. 2013).
- 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).
- Recorded slugs *Goniobranchus rufo-maculatus* and *Volvatella ventricosa* for the first time from the western Indian Ocean (Mollusca, Gastropoda) (Sneha Chandran et al., 2017b).
- Recorded two crabs- *Cycloes maris-rubri* Galil & Clark, 1996 (Calappidae) and *Dorippoides nudipes* Manning & Holthuis, 1986 (Dorippidae) from India (Suvarna Devi and Biju Kumar, 2017)
- Recorded the crab *Liomeris triolata* (family Xanthidae) and thalassinid *Axiopsis serratifrons* (family Axiidae) for the first time from India (Anu et al., 2017)
- The zig zag venus clam *Lioconchurumphii* van der Meij, Moolenbeek & Dekker, 2010 was collected for the first time from Lakshadweep, India, Central Indian Ocean (Samuel et al., 2017).
- Reported seven species of stomatopods from India *Lysiosquilla lisa* Ah Yong & Randall, 2001, *Odonodactylus cultrifer* (White, 1951), *O. japonicus* (De Haan, 1844), *Faughnia formosae* Manning & Chan, 1997, *Busquilla plantei* Manning, 1978, *Carinosquilla spinosa* Ah Yong &

Naiyanetr, 2002, and *Quollastriaka pala* Ah Yong, 2001. (Ah Yong and Biju Kumar, 2018)

- Reported brachyuran crabs *Naxioides robillardii* (Miers, 1882) (Epiplatidae) and *Lupocyclus tugelae* Barnard, 1950 (Portunidae) from India (Devi et al., 2019)
- Reported the Mollusc *Liotina cycloma Tomlin*, 1918 (Gastropoda: Liotiidae) for the first time from the Central Indian Ocean (Ravinesh et al., 2020).
- First Record of Rhizostome Jellyfish *Catostylus perezii* Ranson 1945 (Cnidaria: Scyphozoa) from the Indian Coast (Riyas et al., 2019)
- First record of molluscs *Desmaulus edgarianus* (Melville, 1898), *Pilosabia trigona* (Gmelin, 1791), *Nassarius javanus* (Schepman, 1891) and *Jorruna labialis* (Eliot, 1908), from India (Ravinesh et al., 2021)
- *Profundiconus neotorquatus* (de Motta, 1985) (Mollusca: Gastropoda) from Kerala coast (Ravinesh et al., 2022).

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)

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

Gen Bank Submissions

Networking


- Uploaded majority of research papers in <https://www.academia.edu/> and www.researchgate.net

Informatics

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

Consultancy

- 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 (Virginiamy-cin) 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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Online Public Lectures

E-Contents, as Online Lectures in YouTube

- Learning Management System of University of Kerala
<https://lms.keralauniversity.ac.in/my/>

The following e-contents were uploaded in YouTube:

- Research and Publication Ethics
https://www.youtube.com/watch?v=rQnk_z48p-8
- Svante Peabo and Nobel Prize in Medicine 2022 (Dr A Biju Kumar)
https://www.youtube.com/watch?v=oCd-rLKi_LE&t=263s
- Climate change and Kerala (Dr. Biju Kumar)
https://www.youtube.com/watch?v=lizt_356_yl&t=236s
- Human evolution: The stories told by DNA
<https://www.youtube.com/watch?v=R-8VMI00BMk>
- Species Discoveries & the Relevance of Taxonomy
<https://www.youtube.com/watch?v=CT0uX9rlhK0>
- Climate Change: Being Aware and Prepared
<https://www.youtube.com/watch?v=qHyH4kc4fm0>
- Freshwater crabs of the Western Ghats
<https://www.youtube.com/watch?v=94JKxoTjfRQ>
- Oceans and our Lives
<https://www.youtube.com/watch?v=gmsRo0bVMoU>
- Marine Biodiversity of India
https://www.youtube.com/embed/VbQ2fvbyA_s
- 'Kadalarivu' (Ocean Awareness) Webinar for children
https://www.youtube.com/watch?v=WGckP_HmPRU
- Seashore Erosion in Kerala: Online Consultative Workshop
<https://www.youtube.com/watch?v=kGttS8mJWQc&t=591s>
- How the Oceans are Polluted? (Doordarshan)
<https://www.youtube.com/watch?v=wn6aT8AWw5s>
- Framework for River Life Awareness and Management
<https://www.youtube.com/watch?v=ni22U25mCZw>
- A policy gaps for accessing the river health indicators
<https://www.youtube.com/watch?v=ryrXt-oHeng>
- My Octopus Teacher: Conservation Ethos & Life Below Water | Swati Foster Meena T Pillai A Biju Kumar
<https://www.youtube.com/watch?v=BMXusqsL9Rc>
- Writing Research Papers in Science: All You Need to Know!
<https://www.youtube.com/watch?v=9lx7-ds05FA>

Innovative Programme- Three Minutes PhD

- Introduction to 3 minutes thesis: Researcher's communication to public in three minutes as part of science week celebrations
https://www.youtube.com/watch?v=Cl_88DO_4qg
- Three minutes PhD presentations by PhD students
<https://www.youtube.com/@opendayuniversityofkerala2390>
- Recording of Blue Whale Sound (News in Channels)
<https://www.youtube.com/watch?v=dEvpWTCCcks> (ASIANET)

Documentary

- Jellyfish Bloom: A Boon or Bane (Produced by Dr Biju Kumar)
<https://www.youtube.com/watch?v=pGFgKXsbjYA>

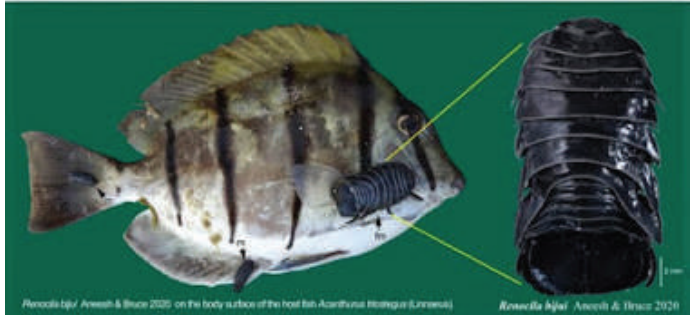
NEW SPECIES NAMED AFTER **BIJU KUMAR**



***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 bijui* 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 (Isopoda: Cymothoidae) described from Andaman and Nicobar Island, India

**New Species Discoveries
(2015-2023)**



Paguristes luculentus Komai,
Reshmi and Bijukumar 2015



Afropinnotheres ratnakara
Ng and Biju Kumar 2015



Moloha tumida
Ng and Biju Kumar 2015



Cistopus platinoidus
Sreeja, Norman and Biju Kumar, 2015



Carcinoplax fasciata
PKL Ng & AB Kumar, 2016



Karkata ghanarakta Pati, Rajesh, Smrithy Raj,
Sheeja, Biju Kumar and Sureshan 2017



Karkata kusumbha Pati, Rajesh, Smrithy Raj,
Sheeja, Biju Kumar and Sureshan 2017



Pilarta aroma Pati, Rajesh, Smrithy Raj,
Sheeja, Biju Kumar and Sureshan 2017



Pilarta punctatissima Pati, Rajesh, Smrithy
Raj, Sheeja, Biju Kumar and Sureshan 2017



Cylindrotelphusa breviphallus Pati, Rajesh, Smrithy
Raj, Sheeja, Biju Kumar and Sureshan 2017



Cylindrotelphusa longiphallus Pati, Rajesh,
Smrithy Raj, Sheeja, Biju Kumar and Sureshan 2017



Kani maranjandu Biju Kumar, Smrithy
and Ng 2017



Typhlocarcinus kerala
Ng, Suvarna Devi and Biju Kumar, 2017

**New Species Discoveries
(2015-2023)**



Petrarctus jeppiaari Yang, Biju Kumar and Chan, 2017



Oziotelphusa ravi Raj, Kumar and Ng 2017



Pleistacantha kannu Ng, Ravinesh and Ravichandran, 2017



Laleonectes kuriya Mendoza and Suvama Devi, 2017



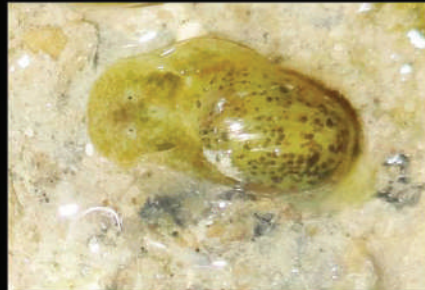
Heterocarpus fascirostratus Yang, Chan and Biju Kumar 2018



Diogenes spongicola Ng, Ravinesh and Kumar 2018



Parilia pattersoni Ng, Suvama Devi and Biju Kumar 2018



Haminoea aptei Bharate, Oskars, Narayana, Ravinesh, Biju Kumar & Malaquias, 2018



Pteropsaron indicum Victor and Biju Kumar, 2019

Polybranchia burni Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018

Polybranchia jannae Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018

Polybranchia jensenae Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018

Polybranchia mexicana Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018

Polybranchia samanthae Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018

Polybranchia schmekelae Medrano, Krug, Gosliner, Biju Kumar & Valdés, 2018



**New Species Discoveries
(2015-2023)**

Parasitic Cymothoids

Brucethoa
Aneesh, Hadifield, Smit, Kumar 2020



Brucethoa baratha
Aneesh, Hadifield, Smit, Kumar 2020



Joryma malabaricus
Aneesh, Helna & Trilles, 2019



Norileca hathai
Aneesh, Nashad & Kumar 2021



Elthusa uranoscopus
Aneesh, Helna, Kumar & Trilles, 2020



Elthusa pseudorhombus
Aneesh, Helna, Kumar & Trilles, 2020



Elthusa fistularia
Aneesh, Helna, Kumar & Trilles, 2020



Lobothorax nicosmiti Aneesh, Bruce & Kumar 2021



Anilocra grandmaae Aneesh, Hadifield, Smit & Kumar 2021



Renocila trillesi
Aneesh & Kumar 2021



Renocila bijui Aneesh & Bruce, 2020



New Species Discoveries
(2015-2023)



Chondracanthus kabatai Aneesh, Helna & Kumar 2020



Acanthochondria krishnai Aneesh, Helna & Kumar 2020



Lernaenicus megalaspis Aneesh, Helna, Kumar & Maran 2021



Nephropsis pygmaea Chan, Chan and Kumar 2020



Paramunida bineeshi Macpherson, Chan, Kumar & Rodriguez-Flores, 2020 (Representative photo)



Rajathelphusa muni Raj, Kumar and Ng 2021



Leptarma biju Ng and Devi, 2020



Rajathelphusa ala Raj, Kumar and Ng 2021

**New Species Discoveries
(2015-2023)**



Pavizham gavi Smrithy,
Biju Kumar and Ng 2022

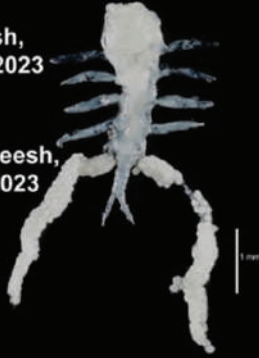


Rajathelphusa brunnea Smrithy,
Biju Kumar and Ng, 2022

Family: **Uranoscopicolaidae** Aneesh,
Helna, Kumar & Maran, 2023

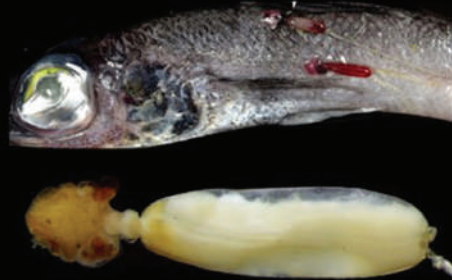
Genus: **Hirodai** Aneesh,
Helna, Kumar & Maran, 2023

Hirodai ohtsukai Aneesh,
Helna, Kumar & Maran, 2023



Genus: **Cardiodectes** Wilson C.B., 1917

Cardiodectes vampire Aneesh,
Helna, Kumar & Maran, 2023



Genus: **Glyptothoa** Helna, Aneesh, Kumar & Ohtsuka, 2023

Glyptothoa sagara Helna, Aneesh,
Kumar & Ohtsuka, 2023



Elthusia aquabio Aneesh,
Helna, Raj & Kumar, 2023



Elthusia nemo Aneesh, Helna, Raj & Kumar, 2023

