

Dr. SHEELA S

Associate Professor & HoD

ADMINISTRATIVE DISTINCTION

- National Service Scheme (NSS) Programme Officer
- University examination chief superintendent
- PTA secretary
- Chief coordinator of flood relief camp
- Staff advisor of college union
- Staff secretary
- NCC Care Taker
- Convenor Academic Extension Committee
- Convener Guidance and Counselling
- Convenor women Empowerment cell
- Convener Birds Club International
- Convener of Organ donation camp
- Convener of Vimukti Club
- Convener Bhoomitra Sena Club,
- Convener of National teachers day celebrations
- Convener of Ozone day seminar funded by KSCSTE (two years)
- Convener of KARANEL KRISHI
- Convener of LIFE STYLE DETECTION CAMP
- Coordinator of WEALTH FROM WASTE- paper bag making and paper
- Member - IQAC, Research committee, Admission committee, CLMC, club, PTA, Sree Narayana Study Centre, Entrepreneurship development club, college election, CLMC
- WWS mentor
- SSP faculty

University level

- Member Board of Studies in Microbiology, University of Kerala
- Question paper setter in University of Kerala

College level

- ICC convener
- Returning officer, College union election
- Coordinator of three day National workshop on Invasive species monitoring and management sponsored by Directorate of Environment and Climate Change
- Regional coordinator of beach cleaning activity conducted by Ocean Society of India (OSI)



ADDRESS:

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Harippad, Alappuzha,
Kerala, India

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QUALIFICATIONS:

M.Sc., B.Ed., MPhil, Ph.D.

DATE OF JOINING:

25.02.2010

EXPERIENCE IN YEARS:

15 .5years

AREA OF RESEARCH:

Transgenic fishes Cancer
biology.

ACHIEVEMENTS/AWARDS

- Received NG KURUP GOLD MEDAL from the University of Kerala for securing First Rank in M.Sc. Zoology
- Received K BHASKARAN NAIR GOLD MEDAL from the University of Kerala
- Certificate of excellence in peer – reviewing
- Letter of appreciation for conducting Green auditing
- Letter of appreciation from ANHS (an NGO)
- Letter of appreciation from ESARC Kollam
- Letter of appreciation from Environment Science Dept. University of Kerala
- Letter of appreciation from Ocean Society of India (OSI)
- Letter of appreciation from MLA Harippad
- Letter of appreciation from CEPCI Kollam
- Letter of appreciation from MSM College Kollam

MEMBERSHIP IN EXTERNAL BODIES

- Member, in the IQAC Core team MSM College, Kayamkulam
- NATURE SCIENCE FOUNDATION , Coimbatore, Tamil Nadu, India
- Life long member in Indian science congress
- Life member in ECSA (Estuarine and Coastal Sciences Association}
- Life member in Alappuzha Natural History Society ANHS)
- Member of Board of studies in MICROBIOLOGY. University of Kerala
- General Secretary of Alappuzha Natural History Society - an environmental NGO
- Academic committee member in Kerala sastra Sahitya Parishith

RESEARCH GUIDESHIP

- Research Guide in Zoology, Kerala University, Thiruvananthapuram, Kerala.
- No of research scholars :2

PUBLICATIONS

IN PROCEEDINGS

1. Production of transgenic Rohu by sperm mediation . Sheela S, pp 53-57. UGC sponsored National seminar on BIOSCIENCES IN GENOMIC ERA at SN College Cherthala from 02/07/2015- 03/07/2015. P- 53-57.
2. Sperm mediated gene transfer in *Labeo rohita* and *Trichogaster trichopterus* Sheela S Book of Abstracts- National Seminar on Reaching the Unreached Through Science and Technology (RURTST-2018) February 12-14, 2018. Department of Zoology, S.N.College, Kollam P. 43
3. Microinjection of disease resistant gene to produce transgenic Zebra fish S Sheela and Soosamma Kavumpurat Proceedings of the International seminar on Blue Growth initiative: sustainable Fishery development strategies and advanced technologies for aquaculture (BISFAA) organised by PG & Reserch department of Zoology Fatima Mata National College , Kollam from 7th to 9th august 2019
4. Genetic engineering in fishes: S Sheela and Soosamma Kavumpurath . Research journal of

PUBLISHED PAPERS

1. Moly .B a++ and **Sheela S a#*** Bioaccumulation of Heavy Metals in Fish *Liza parsia* (Hamilton, 1822), from Kayamkulam Estuary, **Uttar Pradesh Journal of Zoology** Volume 46, Issue 3, Page 17-24, 2025; Article no.UPIOZ.4546 ISSN: 0256-971X (P) DOI: <https://doi.org/10.56557/upjoz/2025/v46i34779>
2. Jasmine Anand, H. Byju, **Sheela S**, Mythreyi (2025). A comprehensive review into the three uncommon breeding shorebirds in Peninsular India. **Journal of Experimental Zoology India**. Vol 28no.1.pp13-21,2025. [DOI:1051470/jez.2025.28.1.13](https://doi.org/10.1051470/jez.2025.28.1.13)
3. **Sheela S1***, Sonia John, Temperature modifications as a strategy to control *Tribolium castaneum* infestation .
International Journal of Entomology Research www.entomologyjournals.com ISSN: 2455-4758, Volume 9, Issue 10, 2024, Page No. 1-3
4. . **Sheela S**, Jasmine Anand, Hima and Aneesh Nair (2024) Evaluation of ethnoveterinary properties of *Cardiospermum helicacabum*, *Andrographis paniculata* and *Tribulus terrestris* against Bacterial Abscess of *Felis catus*. CIBTech **Journal of Zoology**. Vol.13, pp.54-6. ISSN: 2319–3883Online, International Journal, Available at <http://www.cibtech.org/cjz.htm2024>
5. D.A. Shahira Banua, **S. Sheela** ^b, N. Muralimohanc, N. Saranyad, Amzad Basha Kolareand V. Sri Santhya . Importance and Benefits of Green Audits to Education Institutions and Industrial Sectors **International Journal of Environment and Climate Change** Volume 13, Issue 12, Page 349-356, 2023; Article no.IJECC.110748ISSN:2581-8627(Past name:British Journal of Environment & Climate Change,PastISSN: 2231–4784)
6. **Sheela S**(1), Prabhakumari C(2),Sonia John(3) Fermented Fruit Juice as a Source of Bacteriocidal Compounds. **Advances in Bioresearch Adv. Biores.**, Vol 14 (6) November 2023: 381-386. ISSN 0976-4585; Online ISSN 2277-1573 Journal's URL:<http://www.soeagra.com/abr.html> CODEN: ABRDC3 DOI: 10.15515/abr.09764585.14.6.381-386.
7. **Sheela S** , Green Synthesis of Silver Nano Particles from *Saraca asoka* and its Antimicrobial Activity Against *Listeria monocytogenes* and *Salmonella typhimurium*. 2019 **JETIR** June 2019, Volume 6, Issue 6 www.jetir.org (ISSN-2349-5162)
8. **Sheela S**, Sperm mediated gene transfer in *Labeo rohita* (hamilton 1822) **Uttar pradesh journal of zoology** 41(22): 31-37, 2020 ISSN: 0256-971X
9. SHEELA S 1 , MOLY B 2 Study on brachyuran crab diversity of Ayiramthengu mangrove Alappuzha 2018 **JETIR** November 2018, Volume 5, Issue 11 www.jetir.org (ISSN-2349-5162)
10. **S Sheela** and Soosamma Kavumpurath, Basic techniques of microinjection, **Uttar Pradesh Journal of Zoology** 28 (1) 00-002008. P. 87-91

- Ammu S P, **Sheela S** and Sreejaya S B. *Acorus Calamus L.: A Review*. National Conference on Emerging Opportunities and Challenges, Management of Aquaculture and Aquaculture Productivity and Economic Resilience (ECOMAA 2024)” Sponsored by ICAR & “Marine Bioresource Conservation and Sustainable Utilization of Marine Products (MBCSUM-2024)” Sponsored by MoES, On March 15 & 16. ISBN - 978-93-340-240-2448-7
- Ammu S P, **Sheela S** and Sreejaya S B. Screening of Phytochemical and Free Radical Scavenging Activity of *Acorus Calamus* L. Rhizome, National Conference on Emerging Opportunities and Challenges, Management of Aquaculture and Aquaculture Productivity and Economic Resilience (ECOMAA 2024)” Sponsored by ICAR & “Marine Bioresource Conservation and Sustainable Utilization of Marine Products (MBCSUM-2024)” Sponsored by MoES, On March 15 & 16. ISBN - 978-93-340-240-2448-7
- Moly B, Amina. S & **Sheela.S**, GEOCHEMICAL CHARACTERISTICS OF HEAVY METALS CONCENTRATION IN SEDIMENTS OF KAYAMKULAM BACKWATER ALAPPUZHA DISTRICT KERALA National Conference on Emerging Opportunities and Challenges, Management of Aquaculture and Aquaculture Productivity and Economic Resilience (ECOMAA 2024)” Sponsored by ICAR & “Marine Bioresource Conservation and Sustainable Utilization of Marine Products (MBCSUM-2024)” Sponsored by MoES, On March 15 & 16. ISBN - 978-93-340-240-2448-7
- Remya A, Jasmine Anand & **Sheela S**. (2024). Finfish Diversity and Spatial Distribution Patterns in the Kallada River, Kerala. National Conference on Emerging Opportunities and Challenges, Management of Aquaculture and Aquaculture Productivity and Economic Resilience (ECOMAA 2024)” Sponsored by ICAR & “Marine Bioresource Conservation and Sustainable Utilization of Marine Products (MBCSUM-2024)” Sponsored by MoES, On March 15 & 16. ISBN - 978-93-340-240-2448-7

PUBLISHED BOOKS/ BOOK CHAPTERS:

1. Compendium on Non-native Organisms of India (2024). Jayachandran K V, **Sheela S**. Jasmine Anand, Vinod Haridas. DOI: 10.69483/lera.9788195442881 Publisher: LORE & ED Research Associates Pvt. Ltd. ISBN: 978-81-954428-8-1 (eBook); ISBN 978-81-954428-4-3.
2. **Sheela s**, Environmental science research (2023), Book chapter- Disaster management. pp. 139-150, Integrated publications ISBN: 978-93-95118-34-7, DOI <https://doi.org/10.22271/int.book.222>

3. **Sheela s**, Energy and environment management audits , Book chapter – Biodiversity conservation pp 75-84, Akinikmpublications 2021 ISBN 978-93-91538-26-2, DOI <http://doi.org/10.22271/ed.book.1370>
4. Co- author of Text book CELL BIOLOGY core course Zoology for Fourth semester B.Sc,. Degree programme published by Manjusha Publications. ISBN No. 978-93-86218-21-6. First Edition; 2016 (Kerala University)
5. Co- author of Text book METHODOLOGY AND PERSEPECTIVES OF ZOOLOGY core course Zoology for Third semester B.Sc,. Zoology (Kerala University) published by Manjusha Publications. First Edition; 2016 (in the reference book list of Kerala University)
6. Co- author of Text book NON CHORDATE ZOOLOGY for complementary course first semester B.Sc . Zoology (in the reference book list of Kerala University. First Edition; 2016 (Kerala University)

INVITED LECTURES (as Resource Person)

- Resource person in international women’s day celebration in 2025 conducted by All kerala Photography Association
- Resource person in Zoology association inauguration in SN College cherthala
 - As subject expert for the selection of Biology teachers in SN Trust Central School Nangiarkulangara
 - In association with KSSP, Kollam took classes for the public on the importance of invertebrates.
 - Awareness class on the importance of mangroves for the kudumbasree unit of Valiazheekkal
 - Awareness class on blood donation for the public on 14/06/2016 in association with Samabhavana samskarika Samithi Harippad
 - Resource person in LEARN IN LOCKDOWN PROGRAMME 2019, organized by AKPCTA, Kerala

ORAL / POSTERS PRESENTED / ATTENDED IN NATIONAL AND INTERNATIONAL CONFERENCES

- Ammu SP¹, **Sheela S²**, Sreejaya S B³. LCMS Screening and Molecular Docking of Acorus Calamus L. RHIZOME. International conference on Facets of Basic Sciences and applications (FBSA) January 3rd and 4th 2025 organized by R& D Cell & Department of pure and bio sciences Bijoy Krishna Girls College, Howrah
- National seminar on Impact of climate change on fish and fisheries at SN college Cherthala from 26/06/2014 to 27/06/2014
- NAAC sponsored national seminar on Institutionalising quality and accountability in higher education through autonomy on 26th and 27th August 2016.
- Environment science and human rights xxlxAGB at Department of Zoology CMS College, Kottayam on 29/09/2018
- National seminar on impact of climate change on fish and fisheries from 26/6/2014 to 27/6/2014 at Post Graduate and Research Department of Zoology at Sree Narayana College,

- Cherthala, Alappuzha, Kerala.
- National seminar on biotechnology vs biodiversity challenges and options from 21/11/2012 to 22/11/2012 at Sree Narayana College, Kollam, Kerala.
 - State level seminar on life style and cancer, on 28/6/2012 at St. Michaels College, Cherthala, Alappuzha, Kerala.
 - Seminar on INTELLECTUAL PROPERTY RIGHTS on 21/3/2012 at Sree Narayana College, Kollam, Kerala.
 - State Level seminar on DATA MINING on 3/2/2011-5/2/2011 at Sree Narayana College, Cherthala, Alappuzha, Kerala.
 - National seminar on ENERGY CONSERVATION on 29/3/2011-30/3/2011 at Sree Narayana College, Cherthala, Alappuzha, Kerala. 7) Swadeshi Science Congress on 6/11/2010-8/11/2010 at CMFRI, Kochi, Kerala
 - Training programme in GENERAL INFORMATICS from 7/12/2010 to 9/12/2010 at Sree Narayana College, Cherthala, Alappuzha, Kerala.
 - National seminar on Environmental pollution -modern chemicals techniques industrial effluent management from 27/2/2007 to 28/2/2007 at Fatima Mata National College, Kollam
 - National seminar on molecular medicine for cancer on 4/1/2007 at Bishop Moore College, Mavelikara, Kerala.
 - PHYTOTECH-2006 On 10/8/2006 at MACFAST, Thiruvalla, Kerala..
 - National seminar on Current trends in Biotechnology on 23/9/2004 at Mar Ivanios College, Thiruvananthapuram, Kerala.
 - National seminar on recent trends in biotechnology on 5/2/2002 at Fatima Mata National College, Kollam.
 - 9 th Swadeshi science congress from 5/11/1999 to 7/11/1999 at Fatima Mata National College, Kollam.

PARTICIPATION CONFERENCES

- “Emerging Opportunities and Challenges, Management of Aquaculture and Aquaculture Productivity and Economic Resilience (ECOMAA 2024)” Sponsored by ICAR & “Marine Bioresource Conservation and Sustainable Utilization of Marine Products (MBCSUM-2024)” Sponsored by MoES, On March 15 & 16.
- Attended five day residential workshop on preparation of syllabus for Four Year UG Programme in Microbiology from 19th March to 23rd March 2024.
- Attended two day workshop on taxonomy of prawns and crabs organized by IQAC, SN College, Kollam. on 8th&9th April 2024.
- Ammu SP¹, **Sheela S²**, Sreejaya S B³. LCMS Screening and Molecular Docking of Acorus Calamus L. RHIZOME. International conference on Facets of Basic Sciences and applications (FBSA) January 3rd and 4th organized by R& D Cell & Department of pure and bio sciences Bijoy Krishna Girls College, Howrah

- “Emerging Opportunities and Challenges, Management of Aquaculture and Aquaculture Productivity and Economic Resilience (ECOMAA 2024)” Sponsored by ICAR & “Marine Bioresource Conservation and Sustainable Utilization of Marine Products (MBCSUM-2024)” Sponsored by MoES, On March 15 & 16.
- Attended five day residential workshop on preparation of syllabus for Four Year UG Programme in Microbiology from 19th March to 23rd March 2024.
- Attended two day workshop on taxonomy of prawns and crabs organized by IQAC, SN College, Kollam. on 8th&9th April 2024

ORAL PRESENTATIONS:

- Sperm mediated gene transfer in *Labeo rohita* and *Trichogaster trichopterus* in National seminar reaching the unreached through science & technology RURST 2018, 12-14 February 2018 at SN College Kollam in association with The Indian Science congress
- Transgenic Fishes- in National seminar on future India: Science Technology Advances in Integrated Scientific Research at MSM College Kayamkulam in association with Indian Science Congress Cochin chapter
- Effect of coconut oil on lipid metabolism in *Anabas testudineus*, 1999. 9th Swadeshi Science congress
- Production of transgenic Rohu by sperm mediation . Sheela S, pp 53-57. UGC sponsored National seminar on BIOSCIENCES IN GENOMIC ERA at SN College Cherthala from 02/07/2015- 03/07/2015. P- 53-57.
- Microinjection of disease resistant gene to produce transgenic Zebra fish S Sheela and Soosamma Kavumpurath Proceedings of the International seminar on Blue Growth initiative: sustainable Fishery development strategies and advanced technologies for aquaculture (BISFAA) organised by PG & Research department of Zoology Fatima Mata National College , Kollam from 7th to 9th august 2019

ORIENTATION/REFRESHER COURSES

1. Participated in UGC sponsored **special summer school programme conducted by** UGC-HRDC, University of Kerala, Kariavattom from 28/05/2015 to 17/06/2015 and obtained 'A' grade.
2. Participated in the UGC sponsored **Orientation Programme** conducted by UGC-HRDC, University of Kerala, Kariavattom from 28/02/2018 to 27/03/2018 and obtained 'A' grade.
3. Participated in the UGC sponsored **refresher course in Life sciences** conducted by UGC-HRDC, University of Kerala, Kariavattom from 11/07/2019 to 24/07/2019 and obtained 'A' grade.

TRAINING PROGRAMME

- National workshop on advances in instrumental techniques for nanometrical characterization from 7/3/2004 to 8/3/2004
- 2) A perspective on biotechnology from 12/11/2013 to 14/11/2013 at The CEPC-NAIP-ICAR PROJECT CEPCLAB AND TECHNICAL DIVISION, Cashew Bhavan, Kollam-Kerala,

- India.
- 3) Training programme on molecular markers in fisheries research from 12/9/2013 to 19/2013 at NBFGR Kochi unit, CMFRI campus Kochi-Kerala.
 - 4) Training in counselling skills on 4/1/2007 -5/1/2007 at Fatima Mata National College, Kollam
 - National workshop on ADVANCE IN INSTRUMENTAL TECHNIQUES FOR NANOMETRICAL CHARACTERIZATION on 7th and 8th March 2014 at MG University

 - INTERMEDIARY WORKSHOP ON VIRTUAL LAB AND ONLINE LEARNING MANAGEMENT ON 8th march at Amrita Viswa Vidyapeetham University of Amrithapuri on 08/03/2015
 - Workshop on Biostatistics at CEPC Kollam from 29/07/2016 to 30/07/2016
 - Workshop on Conservation education , the Sahyadri fresh water Biodiversity conservation on 25/11/2016 at SN College Cherthala
 - International workshop on Human Chromosome on 9th & 10th January 2018 at university College Thiruvananthapuram
 - Orientation programme in documentary making organized by Birds club International on 11/08/2018 at SN College Cherthala
 - Well water analysis training at Bishop Moore College Mavelikkara on 06/09/2018

RESEARCH EXPERIENCE

- **Research Fellow** at PG and Research Department of Zoology, Fatima Mata National College under the supervision of Dr. Soosamma Kavumpurath from 1999-2004

Subject expert

- Subject expert in the interview board for the selection of guest teacher in Zoology for the academic year 2023-2024 in SN Trust HSS Nangiarkulangara.
- As Rewiever- Dr Sheela S
- Reviewer - Journal of Uttar pradesh journal of Zoology

Consultancy

Lead auditor for green auditing

MOU

MOU with Nature Science Foundation Coimbatore for green auditing