

Dr. JASMIN ANAND.

Assistant Professor of Zoology

ADMINISTRATIVE DISTINCTION

- Co-ordinator - Social Media Champion
- Convener - Health club
- Member- Research committee

AWARDS & ACHIEVEMENTS

- Research Paper Presentation at International Conference held at ASIAN INSTITUTE OF TECHNOLOGY(2017), BANGKOK.
- FLAIR Fellowships – 2018. Order no. P4/39294/2018 DATED 25/09/2018
- TARE FELLOW-2020-2023
- DST-SERB, TARE Fellowship - 2019-2020. Order no: TAR/2019/000186
- NCBI - Gen Bank ACCESSION NO: MW9471771

MEMBERSHIP IN EXTERNAL BODIES

- Life Member-Indian Science Congress
- Member in Energy Management Centre, Kerala and Center for Environment & Development, Thiruvananthapuram

PUBLICATIONS

- 1. Dr.Jasmine Anand and Dr.Ajith Kumar.T.T (2021)**
Study on the diversity of goatfishes (Family: Mullidae) from the Southern coast of India. PROCEEDINGS OF THE “MARINE BIOLOGY RESEARCH SYMPOSIUM” MBRS 2021 On 26 - 30 July 2021, at SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED TO BE UNIVERSITY), Chennai – 600119I. ISBN: 978-93-83409-65-5
- 2. Dr Jasmine Anand and Dr Raghavendra R, (2021).**
Klebsiella pneumonia strain DSM30104 16 S ribosomal RNA partial sequence, GenBank : MW947.177,1. Biology, Indian Institute of Science, Challakere campus, kudapura .Bangalore.
<https://www.ncbi.nlm.nih.gov/nucleotide/MW947177.1>.



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QUALIFICATION

M.Sc., MPhil, Ph.D.

DATE OF JOINING

22.01.2016

EXPERIENCE IN YEARS

06 years

AREA OF RESEARCH

Fisheries Biotechnology
Avian Ecology
Estuarine species diversity

3. Vyshnavi Devi S, [Salitha S](#), [Sheena Jose](#), [Purushothaman Paramasivam](#), [Jasmine Anand](#), [Ajith Kumar T. T.](#) & [Kuldeep Kumar Lal](#) (2021) Molecular Characterization on the Morphotypes of *Amphiprion clarkii* (Bennett, 1830) from Indian Waters with Biogeographic Notes. *Thalassas: An International Journal of Marine Sciences*. <https://doi.org/10.1007/s41208-021-00330>
4. **Dr.JasmineAnand** (2018). Assessment of *Withania Somnifera* Supplemented Diet on Various Parameters of *Oreochromis mossambicus*. *International Journal of Creative Research Thoughts* (IJCRT), Vol 6, issue 1, Paper ID :IJCRT 1872161, ISSN :2320-2882.
5. **Dr.Jasmine Anand** and Dr. C. Biju (2018). **Effect of *Ocimum sanctum* Supplemented Diet on Selected Parameters of Giant Fresh Water Prawn, *Macrobrachium rosenbergii***. *Trends in Biosciences* - An International Journal, Vol.11, No. 7, Pp. 1639.ISSN: 0974-8431, Online-ISSN: 0976-2485. www.trendsinbiosciencesjournal.com.
6. **Dr.JasmineAnand** (2018) - **Microbiological assessment of *Rasterlliger kanagurta* from the local fish markets of punalur**. Proceedings on the national seminar “Innovations and sustainable research in environment and life science”.organized by FMNC Kollam. ISBN 978-81-89152-06-2, Page no 125-129
7. **Dr.JasmineAnand, Dr.Aarif KM, Dr.Riyas K.A & Dr.Biju C** (2018). **Conservation Significance of Kadalundi-Vallikkunnu Community Reserve, A Key Stop-Over & Wintering Station In The South West Coast Of India**. Presented a poster at National Seminar on Conservation of Wetland Ecosystem for Long Term Ecological Security 18TH – 20TH January at S N College for Womens Kollam.
8. **Dr.JasmineAnand** (2018). Effect of *Withania somnifera* Roots Extract Enriched Aquafeed on *Oreochromis mossambicus*. Proceedings on the national seminar emerging challenges in biodiversity conservation with special reference to recent trends in exotoxicology (**ECBCRTET-2018**) organized by MSM College Kayamkulam, Alapuzha, Kerala from 26-27 February. ISBN: 978-93-5291-469-2.
9. **Dr.Jasmine Anand** and Dr.Akhila Thomas (2017). **Evaluation of protein expressions in *Macrobrachium rosenbergii* supplimented with herbal medicine**. Proceedings on the two days National seminar on blue economy: fostering sustainable development and profitable resources utilization on 22 and 23 August. Fatima national college Kollam (Autonomous). ISBN : 978-93-8575256-8
10. **Dr.Jasmine Anand, Dr. S. Radhakrishnan and Dr. Akhila Thomas** (2017). **Relative gene expression studies on *Macrobrachium rosenbergii* Supplemented with Immunomodulatory Medicinal Herbs**. Proceedings on the **International Conference - GAIN T PRAWN-2017 March 20-24, 2017 at Asian Institute of Technology, Thailand**.
11. **Dr.Jasmine Anand and Dr.Akhila Thomas** (2017). Impact of Medicinal Herb - *Ocimum sanctum* Supplementation on Selected Parameters of *Macrobrachium rosenbergii*”. Proceedings on 104th Indian Science Congress, at Sree Venkedeswara University, Thirupathi from 3rd January 2017 to 7th January 2017.
12. **Jasmine Anand** (2017). Immunomodulatory efficacy of dietary administration of medicinal herb extracts on *Macrobrachium rosenbergii* based on relative gene expression in gill tissue”. Proceedings on International Seminar on Coastal Bio-diversity Assessment (COBIA 2017) at St. Gregorious College Kottarakara. Kollam 5-7 January 2017. ISBN: 978-93-5267-385-8
13. **Jasmine Anand, & A.Akhila Thomas,** (2016). Immunomodulatory efficacy of dietary administration of medicinal herb extracts on *Macrobrachium rosenbergii* based on relative gene expression in hemolymph” presented at 103 th Indian Science Congress, at Mysore University, Mysuru from 3rd January 2016 to 7th January 2016

14. Salini, M.P., **Jasmine Anand***, A.Akhila Thomas (2014). **Comparative Efficacy of *Curcuma longa* and *Centella Asiatica* on the nutritional status of *Macrobrachium rosenbergii***. Marine and coastal biodiversity. Neena Suzzan Joshua. A.P.H.Publishing Corporation. 443-36/7 Ansari Road Daraya Ganji .New Delhi. ISBN.No.978-93-313-2566-2:172-179.
15. Salini, M.P., **Jasmine Anand***, A.Akhila Thomas (2014). **Nutritional efficacy of *Centella Asiatica* supplemented diet on *Macrobrachium rosenbergii***. Journal of Aquatic Biology and Fisheries Vol.2/2014/pp/589-593.
- 16 Salini, M.P., Akhila Thomas.A and **Jasmine Anand***. (2014). **Feed utilization and assimilation in *Curcuma longa* supplemented *Macrobrachium rosenbergii***. Proceedings of the International Seminar on Ornamental fish Breeding, Farming and Trade by Govt.of Kerala at Bolgati Palace,Kochi from Jan 26 &27.
- 17 Salini ,M.P., **Jasmine Anand***, A.Akhila Thomas (2014). **Comparative efficacy of *Curcuma longa* and *Centella asiatica* on the nutritional status of *Macrobrachium rosenbergii***. Proceedings of National seminar on Marine and Coastal Bio-diversity and its Conservation and Future Generations. St. Stephan's College Pathanapuram. Kollam 22-23 September 2014.
- 18 Salini, M.P., **Jasmine Anand***, A.Akhila Thomas (2014). **In vivo antimicrobial efficacy and biochemical turn over in *Macrobrachium rosenbergii***. Proceedings of National Seminar on Impact of Climate change on fish and fisheries (ICCF).SN College Cherthala, Alappuzha 26-27 June 2014.
- 19 Salini M.P, **Jasmine Anand***, & A.Akhila Thomas,(2013), **Alterations in the microbial load at certain non-specific immune site of *M. rosenbergii* supplemented with *Centella asiatica***. *THE BIOSCAN*, AN INTERNATIONAL QUARTERLY JOURNAL OF LIFE SCIENCE: Vol 8(2):701-704.
- 20 **Jasmine Anand***, Salini M.P. & A.Akhila Thomas,(2011), “ **Fluctuations in the microbial load at certain non-specific immune site of *M. rosenbergii* supplemented with *Ocimum sanctum***. *THE ECOSCAN*, AN INTERNATIONAL QUARTERLY JOURNAL OF ENVIRONMENTAL SCIENCE: SPECIAL ISSUE, VOL.1; 389-392.
- 21 A.Akhila Thomas, A.Juby, **Jasmine Anand*** and Sheena Rahuman, (2009).**The immunomodulatory potentials of *Emblica officialis* fruit extract on *Oreochromis mossambicus***. *Uttar Pradesh J. Zool.* 29(1): 23-31.
- 22 **Jasmine et al** (2003) **Studies on the antagonistic streptomycetes in fauna associated with the sea weeds, *Ulva fasciata* and *Sargassum wightii* from Kovalam coast, *Sea Weed journal***.

PUBLISHED BOOKS/ BOOK CHAPTER:

- ❖ **Current Status of Researches in Biosciences (2020)** Today & Tomorrow's Printers and Publishers, New Delhi. Book (Chapter) pp 267-274.
- ❖ **"Contemporary Trends In Fisheries And Aquaculture"**, (2018) Book (Chapter) – ISBN 81-7019-603-4.
- ❖ **"Developmental Biology And Experimental Biology"** (2017) (B.Sc. Core Course Zoology) ISBN: 978-93-86218-55-1

INVITED TALKS/RESOURCE PERSONS :

- Resource person for **World International Yoga Day 2017** at S.N College Punalur.
- Resource person for **World International Yoga Day 2018** at S.N College Punalur.

RESEARCH GUIDESHIP

- Research Guide in Zoology, Kerala University, Thiruvananthapuram, Kerala.

•No of PhD students : 2 Ongoing

SL.NO	NAME	TITLE	ORDER/DATE
1	NEENA NARAYANAN	Diversity, habitat preference and assemblages of water birds in selected sites at central kerala	AcEVI1002/202/UOK 27-01-2021
2	ANJU KRISHNAN G	Barcoding and biosystematic studies on eulopidae (chalcidoidea:eulophidae) associated with the agro-ecosystems of kerala.	AcEVI4851/2021UOK 1-09-2021

PROJECTS (MAJOR):

Year	Order .no	Title	Amount	Funding
2019-2020	TAR/2019/000186	Phylogenetic relationships of Indian species of Goat fishes (Family: Mullidae) inferred from genetic and morphologic data.	18,30,000/-	DST- SERB (TARE Fellow at ICAR- National bureau of fish Genetic Research, Kochi)

PROJECTS (MINOR):

Year	Order .no	Title	Amount	Funding
2010	No. Ac.EII/ASP/10 SPYTiS-II	Alterations in the probiotic microbial flora at certain non-specific immune sites of <i>Macrobrachium rosenbergii</i> supplemented with <i>Tinospora cordifolia</i>	16,000/-	KSCSTE
2011	No. Ac.EII/ASP/11 SPYTiS-II	Fluctuations in the protein profile at certain non-specific immune sites of <i>Macrobrachium rosenbergii</i> supplemented with <i>Ocimum sanctum</i>	16,000/-	KSCSTE
2017	No.203 SPYTiS-II/2017	Microbiological assessment of fishes collected from the local markets of punalur	10,000/-	KSCSTE
2018	SPYTiS-II	Microbiological assessment of <i>Sardenella longiceps</i> collected from the local fish markets	10,000/-	KSCSTE

FDP/ORIENTATION/REFRESHER COURSE ATTENDED:

Name of the Course /Summer School	Place	Duration	Sponsoring Agency
Faculty Development Programme on "The Contemporary Issues & Challenges Faced By Modern Jammu & Kashmir: Socio-Cultural And Political Scenario" 2020	ONLINE	13 DAYS	TLC- Ramanujan College University of Delhi UGC-MHRD
ORIENTATION PROGRAMME-2019	UNIVERSITY OF KERALA	21 DAYS	UGC-HRDC
UGC-MHRD, Degree Teachers Training Program -2019.	INDIAN INSTITUTE OF SCIENCE BANGALORE (TDC)	21 DAYS	UGC- MHRD
FLAIR - Induction Training Programme – 2019	IIT - MADRAS	10DAYS	UGC-FLAIR
UGC-Networking Resource Centre, Fifth Teacher / Researcher Training --Workshop in Biological Sciences-2012	INDIAN INSTITUTE OF SCIENCE BANGALORE (TDC)	21 DAYS	UGC- MHRD

Student projects: M.Sc

Sl.No	Title	Year
1	Molecular Characterisation of 3 Morphotypes of <i>H.magnifica</i> from Lakshadweep Using Mitochondrial and Nuclear Markers	2018-2019
2	Molecular Characterisation of <i>A. clarkii</i> from Andaman, Gulf of Mannar and Lakshadweep Using Mitochondrial Markers	2018-2019
3	Production of Industrial Enzymes from Insect Gut Microflora	2018-2019

Student projects: B.Sc

Sl.No	Title	Year
1	Microbiological assessment of fishes collected from the local markets of punalur	2018-2019
2	Microbiological assessment of <i>Sardinella longiceps</i> procured from road side fish vendors	2018-2019
4	Microbiological assessment of <i>Rastrelliger kanagurta</i> procured from road side fish vendors	2018-2019
5	Fish diversity of Ranganathittu bird sanctuary.	2017-2018
6	Avian fauna of Ranganathittu bird sanctuary	2017-2018
7	Ant diversity of the Sree Narayana college campus punalur	2016-2017

SEMINARS/CONFERENCES/WORKSHOPS /INVITED TALK CONDUCTED:

1. Co-coordinator - World **Environment Day Celebrations** -2020 organized on June 21 st by department of zoology T.K.M.M College Nangiarkulangara.
2. E-DARSHAN WEBINAR SERIES
3. Co-coordinator - World **Environment Day Celebrations** -2019 organized on June 21 st 2019 by the post graduate department of zoology and botany S.N.College Cherthala
4. Co-ordinated **Energy Conservation Rally** in connection with **Energy Conservation Awareness Campaign-2018** on **14th December 2017** by Department of Zoology, Sree Narayana College, Punalur, Energy Management Centre, Kerala and Center for Environment & Development, Thiruvananthapuram at Punalur Assembly Constituency.
5. Co-ordinated **Energy Conservation Rally** in connection with **Energy Conservation Awareness Campaign-2017** on **14th December 2016** by Department of Zoology, Sree Narayana College, Punalur, Energy Management Centre, Kerala and Center for Environment & Development, Thiruvananthapuram at Punalur Assembly Constituency.
6. Co-ordinated **Energy Conservation Awareness Campaign** in connection with **Energy Conservation Awareness Campaign-2017** on **4nd February 2017** by Department of Zoology, Sree Narayana College, Punalur, Energy Management Centre, Kerala and Center for Environment & Development, Thiruvananthapuram at Punalur Assembly Constituency.

WORKSHOPS/TRAININGS ATTENDED:

1. INTERNATIONAL TRAINING WORKSHOP ON ICHTHYOTAXONOMY (ITWIT 2021)
March 23-27, 2021
2. Attended Seven Days Entrepreneurship Skill Development Online Course on Ornamental Fish- Production, Trade and Technology Transfer Organized by Department of Zoology (Diploma in Ornamental Fish- Production and Trade) Koundunanadu Arts and Science College, Coimbatore on 3rd – 9th August 2020
3. Undergone training at **TDC, INDIAN INSTITUTE OF SCIENCE, BANGLORE (IISc)-UGC-MHRD, Degree Teachers Training Program from November 22-December 12, 2019.**
4. Attended **National workshop on Ornamental Fish Farming** on 20-22 June 2019 organized by M.S.M.College kayamkulam and KSCSTE .
5. Attended an **International Workshop** on Identification of Gobioid fishes. (IWGF-2018) At Vivekananda college kanyakumari, TN .
6. Attended 10 days **FLAIR Induction Training Programme** from January 15 to 25, 2019 (FDP) at **IIT Madars.**
7. Attended 1day **FLAIR Orientation programme on November 21, 2018**
8. Attended workshop on **Energy Conservation Awareness Campaign** on **24th August, 2017** at St. Teresa college, Ernakulum conducted by Centre for Environment & Development and Energy Management Centre, Kerala
9. Attended workshop on **Energy Conservation Awareness Campaign** on **29th December, 2016** at Centre for Environment & Development and Energy Management Centre, Kerala
10. Attended **UGC-Sponsored National Workshop on Statistical Application In Biology, at S.N College Varkala. From February 11 and 12, 2016.**
11. Undergone training at **INDIAN INSTITUTE OF SCIENCE, BANGLORE (IISc)-UGC-Networking Resource Centre, Fifth Teacher / Researcher Training --Workshop in Biological Sciences (IISc) from May 1-May 25, 2012.**
12. Training on **Molecular Biology Techniques** at **RAJEEV GANDHI CENTER FOR BIOTECHNOLOGY (RGCN), Thiruvananthapuram** from January 1- June 31, 2013.
13. Undergone training on **REAL-TIME PCR** at **REGIONAL CANCER CENTER (RCC), Thiruvananthapuram, 2013.**
14. Attended Training on **4th National level training workshop on IMMUNOLOGICAL TECHNIQUES** from January 27 to February 5, 2009 at **Centre for fish immunology.** PG and Research, Dept. of Zoology and Biotechnology, Lady Doak, College, Madura, Tamilnadu.
15. Hands on Training on **Ornamental Fish Breeding Program** at Pulimugham Aqua Farms and Hatcheries, on 11-16 April 2015, Thakazhy Alappuzha.
16. State level workshop on, **Research Methodology, Writing Practices and Language Skills** from 15th and 16th December 2012, held at KSCSTE, Shastra Bhavan Thiruvananthapuram.
17. Undergone training on **“Sea food Quality Assurance”** at **CIFT Cochin** from 16th September 28th September, 2002.
18. State level workshop on **Captive breeding of fish** for conservation and income generation for fish farmers and socially weaker sections on September 24-26 2009 at F.M.N.C Kollam.
19. Workshop on **Value Added Fish by Product** for income generation February 10 - 11, 2011 at F.M.N.C Kollam
20. Workshop on **Breeding and Management of Ornamental Fishes** from 7 to 9 February 2008 at **School of Industrial Fisheries, CUSAT, Cochin.**
21. National Workshop on **Statistical Applications in Biology, On February 11 and 12, 2016** at S.N.College, Varkala.

INTER NATIONAL SEMINARS ATTENDED:

1. Participated in International Conference on “**Innovations and sustainable research in environment and life science**”. F.M.N.C.Kollam on 7-9, August 2018
2. **International Conference - GAIN PRAWN-2017 March 20-24, 2017 at Asian Institute of Technology, Bangkok, Thailand.**
3. Participated in - International seminar on “**Recent trends in best management practices in aquaculture**” organized by KUFOSE held on November 25 2017.
4. **The 11th Indian Fisheries and Aquaculture Forum (11th IFAF) hosted by the ICAR-Central Institute of Fisheries Technology (ICAR-CIFT), at Cochin, Kerala during 21-24 November 2017.**
5. **International Seminar on Coastal Bio-diversity Assessment (COBIA 2017) at St. Gregorious College Kottarakara. Kollam 5-7 January 2017.**
6. **3rd International Conference on Climate Change, Forest Recourses and Environment and 6th National Environmental Congress. Dec 9-11, ICCFRI- 2011. Department of Environmental Science, University of Kerala, Thiruvananthapuram.**

NATIONAL SEMINARS ATTENDED:

- Attended National level Workshop on **Climate change, Crisis Management & Biodiversity** on 28-1-2019 & 29-1-2019 at S. N College Cherthala supported by Department of Environment and Climate change, Govt. of Kerala
- Attended National level Workshop on **Research Methodology, Academic Writing and Softskills for Researchers** on 15-3-2019 & 16-3-2019 supported by Women Scientific Division, KSCSTE
- Attended **Urjakiran-2018-19** Center for energy management center and EMC (conducted at S N College, Cherthala, supported by KSCSTE.
- Attended **World wetland Day Celebrations-2019, conducted** at S. N College Cherthala, supported by KSCSTE.
- Attended **National science Day Celebrations-2019**, conducted at S. N College Cherthala, supported by KSCSTE.
- Attended **World Environment Day Celebrations-2018**, conducted at S. N College Cherthala, supported by KSCSTE.
- National Seminar on **Insight into Interdisciplinary Perspectives of Chemical and Biosciences**, on 26th-28th Feb. 2018, At Govt Arts College, Thiruvananthapuram.
- The National Seminar on “**Emerging challenges in biodiversity conservation with special reference to recent trends in exotoxicology**” (ECBCRTET-2018) organized by MSM College Kayamkulam, Alapuzha Dt Kerala on 26-27 February 2018.
- NATIONAL SEMINAR ON **Conservation of Wetland Ecosystem for Long Term Ecological Security** 18TH – 20TH 2018 -January at S N College for Womens Kollam.
- Participated in - National Seminar on **Plant Taxonomy –A Tool For Biodiversity Conservation** Held at University College Thiruvananthapuram on 14 th -15th December 2017.
- National seminar on **Blue economy: fostering sustainable development and profitable resources utilization** on 22nd and 23rd August 2017. Fatima National College Kollam (Autonomous).
- **Indian Science Congress, at Venkedeswara University, Thirupathi** from 3rd January 2017 to 7th January 2017

- 13. National seminar in connection with **National Science Day Celebrations- February 28, 2017** by Department of Botany and Zoology, S N College Punalur, Kollam and Kerala State Council for Science, Technology and Environment.
- National seminar in connection with **World Wetland Day Celebrations- February 10, 2017** by Department of Botany and Zoology, S N College Punalur, Kollam and Kerala State Council for Science, Technology and Environment.
- National seminar on **Intellectual Property Rights on February 22, 2017** by Department of Botany and Zoology, S N College Punalur, Kollam and Kerala State Council for Science, Technology and Environment and Patent information center.
- National seminar in connection with **International Ozone Day Celebrations- 2016 on 28th September 2016** by Department of Botany and Zoology, S N College, Punalur, Kollam and Kerala State Council for Science, Technology and Environment.
- National seminar in connection with **World Environment Day Celebrations - 2016** on 17th June 2016 by Department of Botany and Zoology, S N College Punalur, Kollam and Kerala State Council for Science, Technology and Environment.
- **Indian Science Congress, at Mysore University, Mysore-** from 3rd January 2016 to 7th January 2016.
- **National Conference on Recent Trends in Molecular Biology (RTMB 2012)** on Dec 12th – Dec 14th at Dept Botany and Biotechnology, Bishoop Moore College Mavelikara.
- **National Seminar on Biotechnology Vs Biodiversity Challenges and Options,** on 21st and 22nd Nov 2012 at S.N.College Kollom.
- **Emerging Trends in Biodiversity Conservation and Sustainable Management** held at Christian College, Chengannur from 25-26 August 2011
- National Seminar on “**Climate change : Global Risks, Challenges and Decisions**” held at F.M.N. College, Kollam on January 6 and 7, 2011.
- **Dhishana 2008** held at Rajiv Gandhi Centre for Biotechnology, Tvm from May 23-25 2008 connected by Amity Institute for Herbal and Biotech Products Development, Trivandrum.
- National symposium on **Biotechnology of 21st century** held during 2nd & 3rd 2006, F.M.N.College, Kollam.
- Participated in **R.Sankar birth centenary seminar series** held on 30.9.2008 of S.N.College, Kollam
- **Emerging Trends in Green Biotechnology** from September 24-25 2009 at SN Womens, Kollam.
- **KUNSED 2009, Emerging trends in Environment and development, with a focal theme on climate change and water resources** from 8-9 October, 2009 at, Dept.of Environmental Science, University of Kerala, Trivandrum.
- Seminar on Biotechnology, **BIODREAMS-2006** organized by Dept. Of Zoology, S.N.College for Womens, Kollam in February 24, 2006

- National Symposium on **Recent Trends in Biodiversity Conservation and Environmental Technology** held during January 11 & 12 2007 at F.M.N.C.College, Kollam
- National Seminar on **Bio-medicines in Aquaculture** on March 17-18, 2006 at Centre of Marine Sciences and Technology MS University, Rajakkamangalam, Kanyakumari and Aquaculture Foundation of India, Chennai.
- 3rd National Seminar on **Phytochemicals and Nutrition** on 16th February 2009 at F.M.N.College, Kollam.
- National Seminar on **Environmental Management for Sustainable Livelihood** on 13th – 14th of December 2007 at S.N.College Cherthala.
- **21st Kerala Science Congress**, Kollam at 28-31 January 2009.
- Seminar on **Biotechnology for a Clean Environment** on 15-16 October, 2008 at S.N.College, Kollam
- Attended the **All Kerala Science Conference on Applications of Isotopes and Radiation Technology** on 24th 25th of November 1995 at Bishop Moore College, Mavelikkara.
- National Seminar on **World Environmental Day Celebrations On 17th June, 2016** at S.N.College PUNALUR.
- **BIOSPECTRUM-2011, International Seminar on “Phytomedicine”**. MACFAST, Tiruvalla on Nov. 25 - 27, 2011.
- **Asian Pacific Aquaculture 2011**, Jan 17-20 Cochin. International Conference on **Biodiversity conservation and management BIOCAM-2008** from 3-6 February at CMFRI, Cochin.
- International conference on **“Disease Management for Sustainable Fisheries “**at 25-28 August 2003 at Department of Aquatic Biology and Fisheries, University of Kerala, Thiruvananthapuram.