

Dr. VIJAYARAJ RADHA

E. mail: vijayradha@gmail.com & vijayarajrradha@gmail.com | Mobile: (+91)-9976826156

ACADEMIC QUALIFICATION

DOCTOR OF PHILOSOPHY IN MARINE BIOTECHNOLOGY

AMET Deemed to be University, Chennai, India.

2016 - 2021

Thesis title: A novel antidiabetic compound from Marine Macroalgae and its hypoglycemic potentials

Research Supervisor: Dr. K. Altuff, Professor, Department of Marine Biotechnology, AMET.

MASTER OF SCIENCE IN MEDICAL BIOCHEMISTRY (6.49 CGPA)

2013 - 2015

Karunya University, Coimbatore, India.

Dissertation title: Studies on silver nanoparticles from *Achyranthes aspera* L Seeds on Antidiabetic, Antiinflammatory and Antioxidants properties in Rats

2010 - 2013 **BACHELOR OF SCIENCE IN ZOOLOGY WITH BIOTECHNOLOGY (72.8%)**

AVVM Sri Pushpam College, Thanjavur, (Bharathidasan University, Tiruchirappalli, India).

PROFESSIONAL EXPERIENCE

March - 2023 to Till Date

Position	Assistant Professor
Department	Department of Marine Biotechnology
Institute	AMET University, Chennai, India.

February - 2020 to September - 2022 (2 years; 7 months)

Position	DBT- Project Associate - II
Institute	Department of Marine Biotechnology, AMET University, Chennai, India.
Project entitled	Up-Scaling Marine Fish Seed Production Using Live Feed (BT/PR30019/AAQ/3/929/2018)
Sponsored by	Department of Biotechnology, Govt. of India

January - 2017 to January - 2020 (3 Years)

Position	University Research Fellow
Institute	Department of Marine Biotechnology, AMET University, Chennai, India.
Reference No	AMET/Fellowship/Bio-Tech/2017 Dt. 06.01.2017
Sponsored by	Management of AMET University, Chennai.

RESEARCH INTERESTS

🌱 Live feed Aquaculture, Bioactive Compounds, Marine Pharmacology & Toxicology

RESEARCH GUIDANCE

Ph.D Students: Ongoing - 1; Completed - 0

SUMMARY OF RESEARCH AND REVIEW ARTICLE PUBLISHED*

Total No. of publications	: 30
No. SCI indexed Journal	: 09
No. of Scopus publications	: 14
Number of other journals	: 07
No. of invited book chapter	: 02
Cumulative impact factor	: 12.986
Total No. of Citation	: 203 (From 2016 to July, 2022) H - index - 10 and i10-index - 10
Google Scholar	: https://scholar.google.co.in/citations?user=WFGdL2sAAAAAJ&hl=en
Scopus	: https://www.scopus.com/authorid/detail.uri?authorId=57194337843
Sequences in NCBI & BOLD	: 16 (3 MT-COX 1; 5 18S rRNA and 8 16S rRNA sequences)

*The detailed publications list are given in Annexure -1

SUMMARY OF CONFERENCES AND WORKSHOPS PARTICIPATION**

Total no. of workshop attended	: 06
International conference	: 10
National conference	: 04
Award received for best presentation in the conference	: 05
Full length article published in conference proceedings	: 03
Travel grant received for attending the workshop	: 01

**The detailed participation and presentation list are given in Annexure -2*

CONFERENCE AND WORKSHOP ORGANIZED

- ✦ Served as an **Organizing Secretary** in the “NATIONAL WORKSHOP ON BIOPROSPECTING OF MARINE RESOURCES FOR COMMERCIAL APPLICATIONS” organized by the Department of Marine Biotechnology, AMET Deemed to be University, Chennai (20.05.2022).
- ✦ Served as an **Organizing Secretary** in the DBT sponsored - National Online Skill Development Workshop on “COMPETENCE OF MEIOBENTHIC TINY COPEPOD LIVE FEED FOR MARINE FINFISH LARVAE” organized by Aquaculture Research Laboratory, Department of Marine Biotechnology, AMET University (08.02.2022).
- ✦ Served as a **Faculty Coordinator** in the “NATIONAL VIRTUAL CONFERENCE ON MARICULTURE IN INDIA - RECENT ADVANCEMENT” organized by the Department of Marine Biotechnology, AMET University (16-06-2021).

AWARDS/RECOGNITION RECEIVED

- ✦ I have established a state of art of **Aquaculture Research Laboratory** for Copepod Live Feed Culture and involving in marine fish seed production in collaboration with Central Institute of Brackishwater Aquaculture (CIBA), Chennai and Central Marine Fisheries Research Institution (CMFRI), Cochin (As a team member).
- ✦ Received travel grant from University of North Bengal, West Bengal to attend the DST - Sponsored Hand on Training on Various Sophisticated Scientific Instruments and Techniques under the Scheme of Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (STUTI) organized by University of North Bengal, West Bengal (2022).
- ✦ **Best Presentation Award** for the research paper entitled “Molecular Taxonomy of Marine Copepods from Bay of Bengal based on MT-COX1 & 18s rRNA gene barcoding techniques” in the 3rd International Conference on Genome Biology (ICGB-3) and 53rd Annual Aqua-Terr Day held at School of Biological Science, Madurai Kamaraj University, Madurai (2022).
- ✦ **Best Presentation Award** for the research paper entitled “Exploration of Bioactive Compounds from Marine Macro Algae against Diabetic Mellitus” in the National Conference on Biochemistry and Therapeutics of Diabetes and Cancer Treatment & Challenges held at Department of Plant Biotechnology, Loyola College, Chennai (2019).
- ✦ **Best Poster Presentation Award** for the paper entitled “Funding agencies and their research priorities” in the 5th National Workshop on Research Methodology held at Institutional Research Board (IRB) and Medical Education Unit, Trichy SRM Medical College Hospital and Research Center, Trichirapalli (2018).
- ✦ **Best Presentation Award** for the research paper entitled “Identification of Bioactive Compounds and their Invitro Antidiabetic Activity Properties of Marine Macro Algae” in the International Conference on Emerging Areas of Biotechnology for Human Welfare and Bio-Entrepreneurship held at School of Life Science, Crescent Institute of Science and Technology, Chennai (2018).
- ✦ **University Research Fellowship** awarded by Management of AMET University, Chennai (2016).
- ✦ **Best Presentation Award** for the research paper entitled “Green Synthesis of Silver Nano Particles from Ethanolic seed extract of *Leucas aspera* (Linn) and Anti-inflammatory Activity” in the National level seminar on Animal Welfare and Ethics held at School of Biotechnology, Karunya University, Coimbatore (2015).
- ✦ **Best Presentation Award** for the research paper entitled “Biosynthesis of Silver Nano Particles from *Achyranthes aspera* (Linn) and its Anti-diabetic, Anti-inflammatory and Antioxidants Properties in Rats” in the National level conference on Intellectual Property Rights in Biodiversity and Biotechnology held at Department of Zoology, A.V.V.M Sri Pushpam College, Thanjavur.
- ✦ **Third rank** in M.Sc., Medical Biochemistry during the academic year 2013-2015.

INTERNSHIP AND ADD ON COURSE

1. Undergone the internship training in the Department of Clinical Biochemistry Laboratory, Meenakshi Hospital, Thanjavur. Held from March 16th to April 16th, 2016.
2. Undergone the Summer Training Program on Advanced Molecular Biology and Phytochemistry Techniques at Sharmila Institute of Medicinal Products Research Academy, Thanjavur. Held Duration 02nd June 2014 to 02nd July 2014.
3. Undergone the Add-On Course on Computer-Aided Drugs Designing and Docking Studies Organized by Department of Bioinformatics, School of Biotechnology and Health Science, Karunya University, Coimbatore. Held from August 11th to September 22nd, 2014.

MEMBER IN PROFESSIONAL BODIES

- ✚ Coordinator - Unnat Bharat Abhiyan
- ✚ Member - Board of Studies for Biotechnology, Department of Marine Biotechnology, AMET
- ✚ Advisory committee member - Green Initiatives in the University
- ✚ Member of Examination Squad Committee, AMET
- ✚ NAAC - Criteria - 7: Co-Criterion Manager, AMET
- ✚ Reviewer in International Reputed Journals - Natural Product Research (*Taylor and Francis*), Journal of Hazardous Materials (*Elsevier*), Heliyon (*Elsevier*), Journal of Applied Pharmaceutical Science, Journal of Emerging Technology and Innovative Research, etc.
- ✚ Editorial Board Member in Acta Scientific Biotechnology, European Journal of Biotechnology and Bioscience and Science range publisher.
- ✚ Associate Fellow - Med Clinical Medicine and Therapeutics Association. Lifetime membership in Young Phycological Society, Asia-Pacific Chemical, Biological & Environmental Engineering Society, and International Association of Engineers (*IAENG*).

PERSONAL INFORMATION

Date of Birth : 15/03/1993
Materials Status : Unmarried
Language Known : English & Tamil
Address : Kandhari (ST), Perugavazhndan-614705
Mannargudi (TK), Thiruvarur (DT), Tamilnadu, India.

REFERENCES

1. Dr. KAREEM ALTAFF

Former, Professor and Head - Department of Zoology, The New College, Chennai, India.
Former, UGC – Eminent Professor.
Former, Principal of The New College, Chennai.
Professor – Department of Marine Biotechnology
Academy of Maritime Education and Training (AMET)
(Deemed to be University u/s 3 of UGC Act 1956)
#135, East Coast Road, Kanathur, Chennai - 603 112, Tamil Nadu, India.
E. mail: kaltaff@gmail.com; Mobile: +91 - 9444108110

2. Dr. M. JAYAPRAKASHVEL

Registrar (i/c)
Academy of Maritime Education and Training (AMET)
(Deemed to be University u/s 3 of UGC Act 1956)
#135, East Coast Road, Kanathur, Chennai - 603 112, Tamil Nadu, India.
E.mail: jayaprakashvel.m@ametuniv.ac.in & jayaprakashvel@gmail.com
Mobile: +91 - 9840529274

Place :
Date :

(Vijayaraj Radha)

ANNEXURE -1: RESEARCH, REVIEW AND BOOK CHAPTER PUBLISHED

Papers from Impact Factor/ SCI Indexed

1. Nawaz, M. A., Kandhasamy, S., Gurunathan, B., & **Radha, V.** (2023). Diversity rhythm in pontellid copepods (Pontellidae: Copepoda) from the Covelong coast pre-and post-COVID-19 lockdown, Bay of Bengal. *Turkish Journal of Zoology*, 47(2), 71-80. **(Impact factor - 3.4)**.
2. **Radha Vijayaraj**, Mani Jayaprakashvel and Kareem Altaff (2022). Inhibitory Activity of Chitin, 2-Acetamido-2-Deoxy-Hexopyranose against Penicillin Binding Proteins of *Staphylococcus aureus*, **MDPI - Coatings. 2022; 12(12):1854 (Impact factor - 1.0)**.
3. **Radha Vijayaraj**, Sri Kumaran, N., & Altaff, K. (2022). Toxicity evaluation of novel antidiabetic compound (11-methoxy-2-methyltridecane-4-ol) from marine macro alga, *Gracilaria edulis*. **Taylor and Francis - Journal of Biologically Active Products from Nature, 1-9**.
4. Vijayaraj, R., Altaff, K., & Kumaran, N. S. (2022). Volatile bioactive compounds from marine macroalgae and their pharmacological properties. *Indian Journal of Geo-Marine Sciences*, 51(10), 832-842. **(Impact factor - 0.553)**
5. **Vijayaraj, R.**, Kurinjinathan, P., Rajesh, K., Anandan, K., Thayanithi, V., & Devendran, P. (2022). Investigation on Photocatalytic Activity of Copper (II) Oxide Nanoparticles for the Bio Fabrication and Industrial Applications. **Springer - Chemistry Africa, 1-7 (Impact factor - 2.6)**.
6. **Vijayaraj, R.**, Altaff, K., Rosita, A. S., Ramadevi, S., & Revathy, J. (2021). Bioactive compounds from marine resources against novel corona virus (2019-nCoV): in silico study for corona viral drug. **Taylor and Francis - Natural Product Research, 35(23), 5525-5529. (Impact factor - 2.488)**.
7. Avarave, S., Thomas, J., **Vijayaraj, R.**, & Altaff, K. (2021). Synergistic protective effect of *Camellia sinensis* leaf buds and *Camellia sinensis* flowers against cisplatin-induced nephrotoxicity in rats and characterization of its bioactive compounds. **Taylor and Francis - Natural Product Research, 1-5 (Impact factor - 2.488)**.
8. **Vijayaraj, R.**, Sri Kumaran, N., Altaff, K., Ramadevi, S., & Sherlin Rosita, A. (2019). In Silico pharmacokinetics and molecular docking of novel bioactive compound (11-methoxy-2-methyltridecane-4-Ol) for inhibiting carbohydrates hydrolyzing enzyme. **Taylor and Francis - Journal of Biologically Active Products from Nature, 9(6), 445-456**.
9. Kumaran, N. S and **Vijayaraj, R.** (2017). Biosynthesis of silver nanoparticles using *Abutilon indicum* (Link): An investigation of anti-inflammatory and antioxidant potential against carrageen induced paw edema in rats. *Asian Journal of Pharmaceutics*. 11(02) **(Impact factor - 0.46)**.

Papers from SCOPUS/ Web of Science Indexed Journal

1. Sivakumar K., Begum D. I., **Vijayaraj R.** and Altaff K.: Reproductive biology of the calanoid copepod *Eucalanus monachus*. *Intern. J. Zool. Invest.* 9(1): 681-689, 2023. **(WoS indexed)**.
2. Altaff, K., & **Vijayaraj, R.** (2021). Micro-Algal Diet for Copepod Culture with Reference to Their Nutritive Value—A Review. *Int J Cur Res Rev.* Vol, 13(07), 86 **(Scopus indexed)**.
3. **Vijayaraj, R.**, Sri Kumaran, N. S., Aarthi, N., & Kumaresan, M. (2018). A Novel Approach to Synthesis and Characterization of Silver Nanoparticles from Gorgonian *Primnoa* Spp. and Their Biomedical Approach: An *In Vitro* Studies. *Journal of Bionanoscience*, 12(6), 827-835 **(Scopus indexed)**.
4. **Vijayaraj, R.**, Sri Kumaran, N (2018). In vitro anti-inflammatory activity of silver nanoparticle synthesized *Avicennia marina* (Forssk.) Vierh.: A green synthetic approach. *International Journal of Green Pharmacy*, 12(03) **(Scopus indexed)**.
5. **Vijayaraj, R.**, Sri Kumaran, N (2018). Protective effect of *Lamsonia inermis* Linn. on chronic inflammation in rats. *International Journal of Green Pharmacy*, 12(03) **(Scopus indexed)**.
6. **Vijayaraj, R.**, Sri Kumaran, N (2018). Evaluation of in vivo antidiabetic and antioxidant activity of *Achyranthes aspera* Linn. seeds by streptozotocin induced diabetic rats. *International Journal of Green Pharmacy*, 12(01) **(Scopus indexed)**.
7. Nadarajah, S. K., **Vijayaraj, R.**, & Mani, J. (2017). Therapeutic significance of *Loligo vulgaris* (Lamarck, 1798) ink extract: A biomedical approach. *Pharmacognosy research*, 9(Suppl 1), S105 **(Scopus indexed)**.
8. Kumaran, N., **Vijayaraj, R.**, Kumaresan, M., & Jayaprakashvel, M. (2017). Eco-Friendly Synthesis of Silver Nanoparticles from Marine Ascidian, *Didemnum psammathodes* and Its In Vitro Anti-Inflammatory Properties. *Journal of Bionanoscience*, 11(6), 560-566 **(Scopus indexed)**.
9. Kumaran, N., **Vijayaraj, R** Importance of Barcoding and Molecular Systematics of Marine Ascidians: A Mini Review, *Indian Journal of Forensic Medicine & Toxicology* 11 (2), 551-554 **(Scopus indexed)**.

10. **Radha, V.**, Jayaprakashvel, M. & Altaff, K. (2022). Role of Heat Shock Protein Influencing Bioactive Compounds from Mangrove Tropical Estuarine Microalgae for Enhancement of Copepod Egg Production in Culture System. *Marine Science and Technology Bulletin*, 11, 280-287 (**WoS indexed**).
11. Altaff, K., & **Vijayaraj, R.** Influence of Heat Shock Protein (HSP-70) Enhancing Compound from Red Alga (*Porphyridium cruentum*) for Augmenting Egg Production in Copepod Culture—A New In Silico Report. *Marine Science and Technology Bulletin*, 10(2), 186-192 (**WoS indexed**).
12. **Vijayaraj, R.**, & Kumaran, N. S. (2017). Biosynthesis of silver nanoparticles from Hibiscus rosa sinensis: An approach towards antimicrobial activity on fish pathogen aeromonas hydrophila. *Int J Pharm Sci Res*, 8, 5241-6 (**WoS indexed**).
13. Sri Kumaran, N., & **Vijayaraj, R.** (2017). Biosynthesis of silver nano particles from Leucas aspera (willd.) link and its anti-inflammatory potential against carrageen induced paw edema in rats. *Int. J. Pharm. Sci. Res*, 8, 2588-2593 (**WoS indexed**).
14. Vijayaraj, R., Jayaprakashvel, M., & Altaff, K. (2022). Efficacy of *Apocyclops royi* (Cyclopoida, Copepoda) Nauplii as Live Prey for the First Feeding Larvae of Silver Pompano, *Trachinotus blochii* (Lacepède, 1801). *Asian Journal of Fisheries and Aquatic Research*, 20(4), 29-34 (**WoS indexed**).

Papers from Non Indexed Journal

- 1 Karen, K. K., Jesse Joel, T., Lalitha, S., Shabeena, M., & Rex, J. **R. Vijayaraj.** (2016). Efficacy and Comparative Evaluation of Antimicrobial Properties from the Peel of Citrus Fruits used to Treat Diabetic Foot Ulcer. *Asian Journal of Biochemical and Pharmaceutical Research*, 1(6), 151-166.
- 2 **Vijayaraj, R.**, Kumar, K. N., Mani, P., Senthil, J., Jayaseelan, T., & Kumar, G. D. (2016). Hypoglycemic and antioxidant activity of *Achyranthes aspera* seed extract and its effect on streptozotocin induced diabetic rats. *Int J Biol Pharm Res*, 7, 23-8.
- 3 **Vijayaraj, R.**, Kumar, K. N., Mani, P., Senthil, J., Kumar, G. D., & Jayaseelan, T. (2016). Green synthesis of silver nanoparticles from ethanolic seed extract of *Acranythes aspera* (Linn.) and its anti-inflammatory activities. *Int J Pharm Ther*, 7, 42-8.
- 4 **Vijayaraj, R** and Sri Kumaran. (2019). In vivo and In vitro Models for Biological Screening of Anti-Diabetic Drugs, *International Journal of Pharmacy and Biological Sciences* 9 (2), 294-298 (**UGC - Indexed**).
- 5 **Vijayaraj, R** and Sri Kumaran. (2018). Bioprospecting of snake venoms: a mini review, *The Pharma Innovation Journal* 7, 163-165.
- 6 **R. Vijayaraj** and R Vidhya (2016). Biological activity of *Achyranthes aspera* Linn: A review, *Asian J Biochem Pharm Res* 6, 2231-2560.
- 7 **Vijayaraj, R** and Sri Kumaran. (2018). A Mini Review On Bioprospecting Of Fish Venom, *International Journal of Creative Research Thoughts*, 6 (2) 1177-1181.

Manuscript Communicated (Under Review)

- 1 **Radha Vijayaraj** and Kareem Altaff (2022). Hypoglycemic Potential of a Novel Antidiabetic Compound (11-methoxy-2-methyltridecane-4-ol) from Marine Macroalga, *Gracilaria edulis*, **Springer - Journal of Food Measurement and Characterization (3.006)**.
- 2 **Radha Vijayaraj**, Mani Jayaprakashvel and Kareem Altaff (2022). *Apocyclops royi* (Cyclopoida, Copepoda) – A potent upscale feed for finfish larval rearing with reference to high density culture and nutritive value. **Aquaculture - Elsevier (5.135)**.
- 3 **Radha Vijayaraj**, Mani Jayaprakashvel and Kareem Altaff (2022). Influence of microalgal diets in the mass production and nutrient enrichment of *Apocyclops royi* (Cyclopoida, Copepoda) - A potential live food for marine fish larvae. **Russian Journal of Marine Biology - Springer (Impact factor - 0.746)**.
- 4 **Radha Vijayaraj**, Mani Jayaprakashvel and Kareem Altaff (2022). Molecular Taxonomy of Marine Copepods from Bay of Bengal Based on MT-COX 1 and 18S rRNA Gene Barcoding Techniques. **Indian Journal of Geo-Marine Sciences, (Impact factor - 0.553)**.
- 5 **Radha Vijayaraj**, Mani Jayaprakashvel and Kareem Altaff (2022). Evaluation of Microalgal Diet (*Chloroidium saccharophilum*) For the Intensive Cultivation and Nutritive Value of the *Pseudodiaptomus serricaudatus* (Copepoda: Calanoida), **Taylor and Francis - Journal of Applied Aquaculture**.
- 6 G. Dharani, B. Dilshad Begum , R. Vijayaraj and K. Altaff (2022). Reproductive Potential of Male Calanoid Copepod *Sinodiaptomus (Rhinediaptomus) Indicus* Kiefer – A Potential Live Prey for Fish Larvae. *International Journal of Aquatic Biology*.

Book Chapter

1. Radha Vijayaraj and Kareem Altaff (2021). Pharmacokinetics properties of novel antiviral compound Esculetin ethyl ester from marine sponge *Axinella corrugate* for SARS-CoV-2 therapy - An *in Silico* Approach. *The Current Pandemic Covid -19*, pp. 1-9.
2. Radha Vijayaraj and Kareem Altaff (2023). Zinc in Marine Ecology and Environment. Taylor & Francis - Zinc. In press.
3. Radha Vijayaraj and Kareem Altaff (2023). Bioactive Molecules From Marine Macroalgae For The Management Of Diabetes Mellitus With Reference To Their Inhibitory Activity: An Overview. Bentham Publisher. (In press).

ANNEXURE -2: LIST OF CONFERENCE AND WORKSHOP PARTICIPATION

International

1. Presented Scientific research paper entitled “Molecular Taxonomy of Marine Copepods from Bay of Bengal based on MT-COX1 & 18s rRNA gene barcoding techniques” for the 3rd International Conference On Genome Biology and 53rd Annual Aqua-Terr Day held during 28th – 2nd February, 2022 organized by School of Biological Science, Madurai Kamaraj University, Madurai.
2. Presented Scientific research paper entitled “Heat Shock Protein -70 Influencing Bioactive Compounds from Mangrove Tropical Estuarine Microalgae and Their Role on Copepod Egg Production - A New Insilico Report” for the International Conference on Conservation of Mangrove Ecosystem: Synergies for fishery Potential held during 19th – 21st November, 2020 organized by Department of Environmental Science, University of Kerala, India & Estuarine and Coastal Science Association, UK.
3. Presented Scientific research paper entitled “Tetrapyrrole Derivative: A Promising Novel Compound against Type-II Diabetes Mellitus” for the International Conference on Frontiers Marine Science challenges and Prospects (Maricon-2019) held during 16-20 December 2019 organized by School of Marine Science, Cochin University of Science and Technology, Kerala, India.
4. Presented Scientific research paper entitled “Identification of Bioactive Compounds and their *In vitro* Antidiabetic Activity Properties of Marine Macro Algae” for International Conference on Emerging Areas of Biotechnology for Human Welfare and Bio-Entrepreneurship. Held during 11th and 12th, September 2010, Organized by School of Life Science B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai.
5. Presented a scientific research paper entitled “Identification of Bioactive Compounds and Synthesis of Silver Nanoparticles from *Avicennia marina* (Forssk.) Vierh and Its Anti-inflammatory Properties - In vitro Studies” for the International conference on Herbal and Natural Compounds as the Future of Pharmacology and 7th Annual Meet of the national society of Ethanopharmacology. Held during 27th February to 1st March 2017, Organized Department of Biochemistry and Biotechnology, Avinashilingam University, Coimbatore.
6. Presented a scientific research paper entitled “Green Synthesis of Silver Nanoparticles and Anti-inflammatory Activity of *Achyranthes aspera* (Linn.) In Carrageenan induced paw edema” for the International conference on Frontiers in Life Science (ICFLS- 2016). Held during 7th and 8th January 2016, organized by the Department of Botany, School of Biological Science, St. Joseph’s College (Autonomous), Tiruchirappalli.
7. Presented a scientific research paper entitled “Green Synthesis of Silver Nanoparticles and Anti-inflammatory Activity of *Leucas aspera* (Linn.)” in Carrageenan induced paw edema” for the International conference on Frontiers in Life Science (ICFLS- 2016). Held during 7th and 8th January 2016, organized by the Department of Botany, School of Biological Science, St. Joseph’s College (Autonomous), Tiruchirappalli.
8. Presented a scientific research paper entitled “Green Synthesis of Silver Nanoparticles and Antidiabetic Activity of *Achyranthes aspera* (Linn.)” for the international conference on Converging Biotechnological Innovation for Health, Food and Environmental Welfare (ICCB-2015) held during 2nd to 4th November 2015, organized by the Department of Biotechnology, school of Biotechnology and Health science, Karunya University, Coimbatore.

National

1. Presented Scientific research paper entitled “Characterization of Anti - Diabetic Compound (11-Methoxy-2- Methyltridecane-4-Ol) From Marine Macro Algae” for the National Conference on Bioprospecting from Marine Resources for Biotechnological Applications: Opportunity and

Challenges held on 24th and 25th July 2019 organized by the Centre for Drug Discovery and Development, Sathyanama Institute of Science and Technology, Chennai.

2. Presented Scientific research paper entitled “Exploration of Bioactive compounds from marine macroalgae against Diabetic Mellitus” for the National Conference on Biochemistry and Therapeutics of Diabetes and Cancer Treatment & Challenges. Held during February 28 & March 1, 2019, organized by Dept. of Plant Biology & Biotechnology, Loyola College, Chennai.
3. Presented Scientific Research Paper entitled “Evaluation of invitro Antidiabetic and Antioxidant activity of *Achyranthes aspera* Linn. Seeds on Streptozotocin-Induced Diabetic Rats” for the National Conference on “Innovation and Future Challenges in Biotechnology”, Held during 26-28, March-2018 Organized by Department of Biotechnology, Sri Venkateshwara University, Tirupati, A.P.
4. Presented a scientific research paper entitled “Biochemical and Lipid Profile Evaluation of *Achyranthes aspera* L Seeds in Streptozotocin-Induced Diabetic Rats.” for the National level Conference on Trends in Healthcare and Biotechnology: Opportunities & Challenges, Held during the period of 22nd and 23rd January 2016, organized by PG and Research Department of Zoology with Biotechnology, A.V.V.M Sri Pushpam College (Autonomous), Poondi, Thanjavur.
5. Presented a scientific research paper entitled “Green Synthesis of Silver Nano Particles from Ethanolic seed extract of *Leucas aspera* (Linn.) and Antiinflammatory Activity.” for the National level seminar on Animal Welfare and Ethics. Held during 11th and 12th December 2015 organized at the Department of Biotechnology, School of Biotechnology and Health science, Karunya University, Coimbatore.
6. Presented a scientific research paper entitled “Biosynthesis of Silver Nano Particles from *Achyranthes aspera* (Linn) Seeds on Antidiabetic, Antiinflammatory and Antioxidants Properties in Rats.” for the National level conference on Intellectual Property Rights in Biodiversity and Biotechnology (IPRBB - 2015). Held during the period of 15th and 16th September 2015 organized by PG and Research Department of Zoology with Biotechnology, A.V.V.M Sri Pushpam College (Autonomous), Poondi, Thanjavur.
7. Presented a scientific research paper entitled “Phytochemical Screening and GC-MS evaluation of *Achyranthes aspera* (Linn.)” for the National level technical symposium EVOGEN-14 held during 19th and 20th September 2014 organized at Department of Biotechnology, School of Biotechnology and Health Science, Karunya University, Coimbatore.
8. Presented a scientific review paper entitled “Advanced rDNA Technology and its Application of Drug Developments - A Review.” for the National level conference on Advanced Developments of Medical Chemistry in Target Drugs Design (MCTD-2014). Held on 11th and 12th September 2014, organized by Department of Chemistry, Kongunadu arts and science college, Coimbatore.

Workshops Attended

1. Participated in the DST sponsored “Hands-on Training Program on Various Sophisticated Scientific Instruments and Techniques” Under the Scheme of Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (STUTI), Department of Science and Technology (DST), Govt. of India, held on 22.11.2022 to 28.11.2022 organized by University of North Bengal (NBU), West Bengal. (**Received travel grants from NBU & fully funded by NBU**).
2. Participated in the DBT sponsored Five Days Hands-on Training on "Mass Production of Marine Live Feeds" held on 22nd -26th August 2022 organized by Marine Planktonology & Aquaculture, Department of Marine Science, Bharathidasan University, Tiruchirappalli.
3. Participated in one-week DBT Sponsored National Workshop on Hands on Training on “Fish Cell Culture Techniques: Development and Applications” held on 25th to 30th January 2021 organized by Aquatic Animal Health Laboratory, C.Abdul Hakeem College, Melvisharam.
4. Participate in two days of Hands-on training on “Electrophoresis techniques” held on 11th & 12th December 2020 Organized by OPRL Bioscience Pvt. Ltd. Chennai.
5. Participate two days workshops on “Advanced Chromatography Techniques - GCMS & HPLC” held on 22nd & 23rd February 2019 organized by Periyar Technology Business Incubator (PTBI), Periyar Maniammai Institute of Science and Technology, Thanjavur.
6. Participate as a Delegate in the 5th National Workshop on Research Methodology held from 26th-29th September 2018 Organized by Institutional Research Board (IRB) and Medical Education Unit, Trichy SRM Medical College Hospital and Research Center, Trichirappalli.
7. Participate in two days workshop in “Recent Advance in Biological Science” held during 8th and 9th December 2017 Organized by Center for Advanced Studies in Botany, University of Madras, Chennai.

8. Participate ICMR sponsored Workshop on "Experimental Animal Ethical Guidelines and Bioefficacn Studies for Biotechnical Application" held during January 9th and 10th, 2014, organized at the Department of Biotechnology, School of Biotechnology, Karunya University, Coimbatore.
9. Participate in Hands-on training on "Advanced Immunology and Immunotechnology" held on 20th to 26th October 2014, conducted by Sharmila Institute of Medicinal Products Research Academy, Thanjavur.