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Assistant Professor,

PG Department of Plant Biology & Plant Biotechnology,

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EDUCATIONAL QUALIFICATION

- 2009 Ph.D., Botany (Highly commended), Centre for Advanced Studies in Botany, University of Madras, Chennai, India.
- 2002 M.Phil, Marine Biotechnology, Centre for Marine Science and Technology, Manonmaniam Sundaranar University, India.
- 2001 M.Sc., Botany, Annamalai University, Annamalai Nagar, India.
- 1997 B.Ed., Natural Science, University of Kerala, Kerala.
- 1995 B.Sc., Botany, V.T.M.N.S.S College, University of Kerala, Kerala.

Academic contributions

- Possessing **10 years of teaching experience** as an Assistant Professor in PG Department of Plant Biology and Plant Biotechnology and 8 years of experience as Head.
- **Staff club Secretary** for the year 2014-2015.
- **Valuation Camp Member** for the year 2016- 2017.
- **Placement Co-ordinator** 2017-2018.
- **College Admission Co- ordinator** for the academic year 2018-2019.

Research Experience

Ph.D., Thesis : PRODUCTION, PURIFICATION AND CHARACTERIZATION OF AGARASE FROM *EXIGUOBACTERIUM AESTUARII*

St. TF-19 - ITS ROLE IN DEGRADATION
OF *GELIDIELLA ACEROSA* WASTE

M.Phil., dissertation : Phytotherapeutic Characteristics of Ayurvedic Products against Bacterial Microflora isolated from infected grouper *Epinephelus tauvina*.

Research activities

2010-2020: Guided **38 M.Sc** and **5 M.Phil** students of S.D.N.B Vaishnav College, Chrompet, India for their dissertation work.

Research Interest/Specialization:

Algology, Microbiology, Plant and microbial metabolites, Nanotechnology, Bioremediation, Microbial enzymes.

Publications (12)

1. Devi Mari S., **Sheeja L** and Aishwariyaa Lakshmi V, 2020. Screening and Evaluation of Melanogenic Enzyme Tyrosinase Producing Bacterium from Different Crop Soil. *International Journal on Recent Advancement in Biotechnology & Nanotechnology*, Vol. 3, pp. 18-33.
2. Aishwariyaa Lakshmi V., **Sheeja L** and Devi Mari S, 2020. Screening and Identification of Asparaginase and Glutaminase Producing Halophilic Bacterium from Different Natural Saline Habitats. *International Journal on Recent Advancement in Biotechnology & Nanotechnology*, Vol. 3, pp. 34-53.
3. **Sheeja Leela**, Jayapriyan Kothimozhian, Ramesh Kannan and R.Rengasamy(2019). Characterization of struvite produced by an algal associated agarolytic bacterium *Exiguobacterium aestuarii* St. SR- 101. **J. J.Pure Appl Microbiol**, 13(2): 1227-1234.
<https://dx.doi.org/10.22207/JPAM.13.2.64>
4. Shruthi Bharadwaj, **Sheeja. L**, Lakshmi. D and Sajidha Parveen (2017). ¹H NMR Analysis and Bioautography Screening of Methanol Extract of *Sargassum*

wightii by Chromatographic Separation. **Research J. Pharm. and Tech.** 10(2): 473-479. [10.5958/0974-360X.2017.00095.6](https://doi.org/10.5958/0974-360X.2017.00095.6)

5. **Sheeja L**, D. Lakshmi, Shruthi Bharadwaj* and K. Sajidha Parveen (2016). Anticancer activity of phytol purified from *Gracilaria edulis* against human breast cancer cell line (MCF-7). **Int J Curr Sci.**, 19(4): E 36-46. **ISSN 2250-1770.**
6. Sangeetha A, Kavitha V, **Sheeja L** and Lakshmi D (2016). DNA Barcoding of Selected Red algae. **International Journal of Current Science and Technology.** 4(7): 234-239. **ISSN: 2320-8090.**
7. Lakshmi D, **L Sheeja**, Shruthi Bharadwaj and K Sajidha Parveen (2016). In vitro antiviral activity of *Sargassum wightii* against human simplex virus. **International Journal of Current Science.** 19(3): E 93 – 100. **ISSN 2250-1770.**
8. Hilda S, **Sheeja L** and Rani G (2014). In vitro antioxidant activity of freshwater green macroalgae, *Nitella tenuissima* (Desv.) Kiitz. **Nature of Pharmaceutical Technology.** 4(3)11- 15. [Article ID: npt151214103.](#)
9. Hilda S, **Sheeja L** and Rani G (2014). Phytochemistry and anti bacterial activity of fresh water green algae *Nitella tenuissima* (Desv.) Kiitz. **Int. J. Biol. Technology.** 5(3): 46-51. [Article ID: ijbt151214107](#)
10. K.R. Jayappriyan, R. Rajkumar, **L. Sheeja**, S. Divya and R. Rengasamy (2010). Optimization study in *Dunaliella salina* EU5891200 isolated in salt pans of Tamil Nadu South India. **Recent Research in Science and Technolog,** 2(4): 54-62. **ISSN: 2076-5061.**
11. Jayappriyan, K.R., Rajkumar, R., **Sheeja, L.**, Nagaraj, S., Divya, S. and Rengasamy, R. 2010. Discrimination between the morphological and molecular identification in the genus *Dunaliella*. **International Journal of Current Research,** 8: pp.073-07. **ISSN: 0975-833X**
12. Arunachalam Palavasam, Leela Sheeja and Grasian Immanuel 2006. Antimicrobial properties of medicinal herbal extracts against pathogenic

bacteria isolated from the infected grouper *Epinephelus tauvina*. *Journal of Biological research*, 6: 167-176.

SYMPOSIA/CONFERNCES PRESENTATION

Presented more than 16 papers in various International & National Conferences and has **7 GenBank submissions** with accession Nos.: **EU 847143, KT943567, KT943568, KT943569, KT943570, KT943571, and KT943572.**

PAPER PRESENTATIONS (16)

1. Aishwariyaa Lakshmi V and **Sheeja. L, 2020**. Screening and identification of asparaginase and glutaminase producing halophilic bacteria from natural saline habitats. **International Conference** on Recent Innovations in Multidisciplinary Studies (RIMS) on 4th March, organized by St.Joseph's College, Kovur, Chennai.
2. Devi Mari S and **Sheeja. L, 2020**. Screening and identification of Melanogenic enzyme tyrosinase producing bacterium from different crop soil. **International Conference** on Recent Innovations in Multidisciplinary Studies (RIMS) on 4th March, organized by St.Joseph's College, Kovur, Chennai.
3. Srimathi K and **Sheeja. L, 2020**. Pharmacological activities and compound characterization of essential oil extracted from fruits of *Illicium verum*. **International Conference** on Recent trends in Lifestyle Disease Management (RTLDM) on 5th and 6th March, organized by School of Life Science Vistas, Vels University, Chennai.
4. Rehma Shahanaz S and **Sheeja. L, 2020**. Pharmacological and anticancer activity of *Carica papaya* flower. **International Conference** on Recent trends in Lifestyle Disease Management (RTLDM) on 5th and 6th March, organized by School of Life Science Vistas, Vels University, Chennai (**Won Best paper presentation award**).
5. **Sheeja. L**, Gouthami M and Bhuwaneshwari K, **2018**. Photocatalytic dye degradation efficiency of silver nanoparticle biosynthesized from exopolysaccharide produced from seaweed associated bacteria. **International conference** on emerging areas of biotechnology for human welfare and bio-entrepreneurship (ICEBHE) held on 11th and 12th September, organized by

Crescent Institute of Science and Technology (**Won Best paper presentation award**).

6. Samundeeswari and **Sheeja L, 2016**. Biodecolorization of a textile dye by moderately halotolerant bacteria. Presented a paper in **National Conference** on Biomaterials from Micro Organisms and Medicinal Plants for Human Welfare held on 29th & 30th September, organized by Department of Biotechnology, School of Life Sciences, Vels University, Chennai.
7. Ragavi A and **Sheeja L, 2016**. Isolation and optimization of cellulolytic bacteria and Bioethanol production. Presented a paper in **National Conference** on Biomaterials from Micro Organisms and Medicinal Plants for Human Welfare held on 29th & 30th September, organized by Department of Biotechnology, School of Life Sciences, Vels University, Chennai.
8. Janani S and **Sheeja L, 2016**. Seaweed associated bacteria of Kovelong coast and screening of industrial enzymes. Presented a paper in **National Conference** on Biomaterials from Micro Organisms and Medicinal Plants for Human Welfare held on 29th & 30th September, organized by Department of Biotechnology, School of Life Sciences, Vels University, Chennai.
9. Shruthi Bharadwaj and **Sheeja L, 2016**. ¹H NMR analysis and autography screening of methanol extract of *Sargassum Wightii* by chromatographic separation. Presented a paper in **National Conference** on Biomaterials from Micro Organisms and Medicinal Plants for Human Welfare held on 29th & 30th September, organized by Department of Biotechnology, School of Life Sciences, Vels University, Chennai.
10. Sangeetha A, **Sheeja L**, Kavitha V and Lakshmi D, **2015**. DNA barcoding of selected red algae. Presented a paper in **National Conference** on “Algal Taxonomy and Application conducted by Krishnamoorthy Institute of Algology on 27th and 28th of November 2015.
11. Kavitha V, Lakshmi D, Sangeetha A and **Sheeja L, 2015**. DNA barcoding of selected green macroalgae using 18s rDNA Diversity. Presented a paper in **National Conference** on “Algal Taxonomy and Application conducted by Krishnamoorthy Institute of Algology on 27th and 28th of November 2015.
12. **Sheeja L** and Sangeetha A, **2015**. Isolation and Screening of phosphate solubilizing bacteria from different field. Presented a Poster in **National seminar** on New vistas in Marine Biotechnology held on 28th February 2015

organized by the Department of Biotechnology, School of Life Sciences, Vels University.

13. Sugirtha S and **Sheeja L, 2013**. Anticancer activity of phytol purified from *Gracilaria edulis* against human breast cancer cell line (MCF-7). **National Seminar** on Recent Trends in Applied Algal Research conducted by Krishnamoorthy Institute of Algology on 21st and 22nd September at Centre for Advanced Studies in Botany, University of Madras.
14. Sasikala Kasi and **Sheeja L, 2012**. Optimization of **Protease** producing bacteria from market soil. UGC Sponsored **National Conference** on Statistics in Life Sciences, Organized by PG and Research Department of Plant Biology and Plant Biotechnology and Department of Statistics and by PG Department of Biostatistics on 25th January at SDNB Vaishnav College for Women, Chromepet.
15. Gayathri C and **Sheeja L, 2012**. Optimization of Amylase producing bacteria from soil. UGC Sponsored **National Conference** on Statistics in Life Sciences, Organized by PG and Research Department of Plant Biology and Plant Biotechnology and Department of Statistics and by PG Department of Biostatistics on 25th January at SDNB Vaishnav College for Women, Chromepet.
16. K.R. Jayapriyan, R. Rajkumar, **L. Sheeja**, S. Divya and R. Rengasamy, 2009. Significance of molecular taxonomy in the genus *Dunaliella* In: **7th Asia-Pacific Conference on Algal Biotechnology**, Algal: Biotechnology in the Asia-Pacific regions: New Challenges and Opportunities for the 21st Century -Under the Auspices of Asia-Pacific Society for Applied Phycology.

Proceedings:

Sheeja, L., Palavesam, A., Immanuel, G., Peter Marian, M., 2003. Phytotherapeutic antimicrobial characteristics of ayurvedic compounds against bacterial microflora isolated from infected grouper *Epinephelus* sp. In: Balakrishnan Nair, N., Natarajam, P., Abdul Azis, P.K, Lipton, P. (Eds.), Proceedings of ICON-DMSF 2003. Department of Aquatic biology, University of Kerala, pp. 149– 150.

Additional qualifications in Computer education

- Diploma in Computer Applications and Office Management –Institute of Human Resources and Development for Electronics (Established by Govt. of Kerala).
- Diploma in Executive Secretary – Datamatics Institute of Management, Chennai.
- Certificate on Internet & Email – Regional Computer College, Affiliated to NCVT – Govt. of India.