

Education

- 2019–Present : **PhD**, Department of Plant Science, University of Hyderabad, Hyderabad .
- 2017–2019 : **MSc**, Plant Biology and Biotechnology, University of Hyderabad, Hyderabad.
CGPA: **8.8/10**
- 2014–2017 : **BSc**, Botany, Kannur University, Kerala , CGPA: **9.153/10**.

Research Experiences

- 2019–Present **Phd**, University of Hyderabad.
- Area of work **Planctomycetota associated with algae.**
- Supervisor **Prof. Ch. Venkata Ramana.**
- Diversity of environmentally and biotechnologically important Planctomycetota
 - Isolation and characterization of noval taxa.
 - Insights into anammox bacterial diversity and interactions
- 2018–2019 **MSc Project**, University of Hyderabad.
- Dissertation **Diversity of anammox Planctobacteria across the eastern regions of India.**
- Supervisor **Prof. Ch. Venkata Ramana.**
- Diversity analysis of unexplored and difficult to cultivate group of bacteria called anammox Planctobacteria.
- 2016–2017 **BSc Project**, Kannur University.
- Dissertation **Biochemical analysis of road side plants and their response to vehicular pollution.**
- Supervisor **Dr. K N Ajoy Kumar.**
- Elucidation of vehicular stress in plants by physio-biochemical comparison
 - Resulted in one publication in an international journal.

Technical skills

- Microbial cultivation and characterization: Isolation and maintenance of microbial cultures, Substrate utilization tests, Polar lipid analysis
- Imaging techniques: Basic knowledge in Confocal microscopy, Fluorescent insitu hybridization, Scanning electron microscopy.
- Biochemistry: Basic knowledge in assays of proteins, sugar and enzymes
- Molecular biology: DNA/RNA isolation, Agarose gel Electrophoresis, PCR amplification
- Genomics and Computational: Nucleotide sequence alignment using BLAST, EzBio-Cloud, Phylogenetic tree construction using MEGA 7, Genome annotation
- Metagenomics: Mothur, MG-RAST
- Metagenome assembled genome construction

- Software: Microsoft Word, Excel, Latex and PowerPoint

Awards/Fellowships

- Aug,2020 Selected for **Prime Minister's Research Fellowship**
- Mar,2020 Qualified **GATE Life Sciences** with **Score of 575** and All India Rank 474
- Jun,2019 Qualified for **CSIR-Junior Research Fellowship(JRF)** in Life Science with All India Rank 59
- Mar,2019 Qualified **GATE Life Sciences** with **Score of 650** and All India Rank 177
- Jun,2019 Qualified for **ICMR funded project JRF** in Life Sciences
- Dec,2018 Qualified for **CSIR-Naional Eligiblity test (NET)** for Lectureship (LS) in Life Sciences with All India Rank 42
- Dec,2018 Awarded **Post-Graduate Merit Scholarship** for University Rank Holders for PG Program by UGC.
- Mar,2017 Qualified **Joint Admission Test for MSc.(JAM)** with All India Rank of 698 for Biological Sciences and 442 for Biotechnology
- Jun,2017 Secured **Second rank in BSc Botany** from Kannur University.
- Mar,2013 Selected among **top 1 % in Higher Secondary Examination**

Workshops/Conference attended

- Mar,2024 Chaired a session on Stress Biology in **International Symposium on Plant Biology and Functional Genomics(ISPBFG 2024)** held at University of Hyderabad, India
- Feb,2023 Presented in **International Conference on Current Trends and Future Prospects of Plant Biology** held at University of Hyderabad, India
- Sep,2022 Presented poster at **69th Association of Microbiologists of India**, held at Mysuru,India
- May,2022 Attended **V PVC** meeting conducted on the theme 'From Nature to Genomes'
- May,2021 Attended **IPVC Webinar** on Planctomycetes, Verrucomicrobia and Chlamydiae (PVC) conducted by PVC V Scientific Committee.
- Jan,2020 Attended **National conference of Frontiers in Plant Biology 2020** held at University of Hyderabad
- Dec,2018 Attended and volunteered in **59th Annual Conference of Association of Microbiologists of India (AMI-2018)** held at University of Hyderabad
- Oct,2017 Attended in International Conference on **Photosynthesis and Hydrogen Energy Research for Sustainability-2017** held at University of Hyderabad
- Sep,2017 Attended **NanoBioEngineering of BioInspired BioPolymers (Nano3Bio)** –The future of chitosan held at University of Hyderabad
- Jan,2014 Attended **National Seminar on Environment, Development And Sustainability with special reference to Biodiversity of Western Ghats**, held at Nirmalagiri College

Publications

- [1] Kohli Pragya, **Sreya PK**, Lakshmanan Vighnesh, Dhurka Mahima, Mallick Sushmita, Chintalapati Sasikala, and Chintalapati Venkata Ramana. Phylogenomic analysis of

metagenome-assembled genomes indicates new taxa in the order *Spirochaetales* and proposal of *Thalassospirochaeta sargassi* gen. nov. sp. nov. from seaweeds. *Systematic and Applied Microbiology*. pages 47(2–3), 126502, 2024.

- [2] G Kumar, N Kallscheuer, M Kashif, S Ahamad, U Jagadeeshwari, **Sreya PK**, T Hauf-schild, M Kabuu, Ch Sasikala, C Jogler, and Ch V Ramana. *Gemmata algarum*, a novel planctomycete isolated from an algal mat, displays antimicrobial activity. *Marine Drugs*. page 22:10, 2024.
- [3] **Sreya PK**, Kumar Gaurav, Shabbir Ahmed, Ch Sasikala, and Ch V Ramana. *Blastopirellula sediminis* sp. nov. a new member of *Pirellulaceae* isolated from the andaman and nicobar islands *Antonie van Leeuwenhoek*. (2023).
- [4] **Sreya PK**, Gandham Suresh, Anusha Rai, Biswas Ria, L Vighnesh, Vaibhav Chandrakant Agre, U Jagadeeshwari, Ch Sasikala, and Ch Ramana. Revisiting the taxonomy of the genus *Rhodopirellula* with the proposal for reclassification of the genus to *Rhodopirellula sensu stricto*, *Aporhodopirellula* gen. nov., *Allorhodopirellula* gen. nov. and *Neorhodopirellula* gen. nov. *Antonie van Leeuwenhoek*. 2022.
- [5] Anusha Rai, Gandham Suresh, Biswas Ria, L Vignesh, **Sreya PK**, Ipsita S, Ch Sasikala, and Ch V Ramana. Phylogenomic analysis of the genus *Alcanivorax*: proposal for division of this genus into the emended genus *Alcanivorax* and two novel genera *Alloalcanivorax* gen. nov. and *Isoalcanivorax* gen. nov. *International Journal of Systematic and Evolutionary Microbiology* 73(1). 2023.
- [6] Gaurav Kumar, Uppada Jagadeeshwari, **Sreya, PK**, Ahmed Shabbir, Chintalapati Sasikala, and Chintalapati Venkata Ramana. A genomic overview including polyphasic taxonomy of *Thalassoroseus pseudoceratinae* gen. nov., sp. nov. isolated from a marine sponge, *Pseudoceratina* sp. *Antonie van Leeuwenhoek*, pages 1–14, 2022.
- [7] Gaurav Kumar, Dhanesh Kumar, U Jagadeeshwari, **Sreya, PK**, A Shabbir, Ch Sasikala, and Ch V Ramana. *Crateriforma spongiae* sp. nov., isolated from a marine sponge and emended description of the genus “*Crateriforma*”. *Antonie Van Leeuwenhoek*, 114(4):341–353, 2021.
- [8] Dhanesh Kumar, Kumar Gaurav, **Sreya, PK**, A Shabbir, Jagadeeshwari Uppada, Sasikala Ch, et al. *Gimesia chilikensis* sp. nov., a haloalkali-tolerant planctomycete isolated from chilika lagoon and emended description of the genus *Gimesia*. *International Journal of Systematic and Evolutionary Microbiology*, 70(6):3647–3655, 2020.
- [9] Ajoykumar KN and **Sreya PK**. Bio-monitoring of roadside plants and their response to vehicular pollution- A physiochemical appraisal. *International Journal of Advanced Research* 6,715-725, 2018.