SREYA PK

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 **Planctomycetes associated with algae**.
Supervisor **Prof. Ch. Venkata Ramana**.

- Diversity of environmentally and biotechnologically important Planctomycetes
- 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, EzBioCloud, Phylogenetic tree construction using MEGA 7,Genome annotation
- Software: Microsoft Word, Excel, Latex and PowerPoint

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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

May,2021 Attended **PVC Webinar on Planctomycetes, Verrucomicrobia and Chlamydiae**

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] Kumar Gaurav, Dhanesh Kumar, Jagadeeshwari U, **Sreya PK**, Shabbir A, Sasikala Ch, and Ramana Ch. V. Crateriforma spongiae sp. nov.,a new member in *planctomycetaceae*, isolated from a marine sponge. *Antonie van Leeuwenhoek, 114,341-353*, 2021.

[2] Dhanesh Kumar, Kumar Gaurav, **Sreya PK**, Shabbir A, Jagadeeshwari U, Sasikala Ch, and Ramana Ch. V. 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 70,3647-3655 :ijsem004211*, 2020.

[3] 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.

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References

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