MARIS STELLA COLLEGE (AUTONOMOUS), VIJAYAWADA DEPARTMENT OF MICROBIOLOGY

Academic Profile

Name: N. Renuka Satya Sree

Educational Qualifications: M.Sc., UGC-NET, AP-SET, TS-SET, GATE

Designation: Assistant Professor (Microbiology)

Department: Microbiology

Areas of interest: PGPR, Biocontrol agents and Antimicrobial metabolites

Date of joining Maris Stella: 01.07.2025

I Academics

Degree	Institution/University	Year
UGC NET		2024
(AP-SET)		2024
(TS-SET)		2023
MSc Microbiology	Jawaharlal Nehru Technological University	2019

II Professional Experience

Positions held	Institution/University	Year
PG Guest Faculty	Siddhartha Degree & PG College, OU, Kukatpally, Hyderabad	2019 - 2021

III Academic Achievements:

- Graduate Aptitude Test (GATE) 2023
- Filed (1): Indian Patent – 2015, 2520/CHE/2015, Analytical kit and method for rapid detection of microbial load of mouth

- Filed (4): Indian Patents 2026: https://drive.google.com/file/d/12ipKtAIji399M_Z8yqkU3rLqsIyyTUsc/view?usp=sharing

1. Rekha Devi P. V., **Renuka Satya Sree Nalam** Sopeti, Hema Sree.

   "StellVita Millet Mocha Bar — A Millet-Based Functional Energy Snack for Active and Health-Conscious Consumers."

   Indian Patent Application No. 202641023321 A, Filed: 27 Feb 2026, Published: 06 Mar 2026.

2. Rekha Devi P. V., Sopeti, Hema Sree, **Renuka Satya Sree Nalam**.

   "StellVita Postpartum Wellness Powder — A Standardized Ayurvedic Herbal Formulation for Maternal Recovery and Lactation Support."

   Indian Patent Application No. 202641023325 A, Filed: 27 Feb 2026, Published: 06 Mar 2026.

3. Sopeti, Hema Sree, **Renuka Satya Sree Nalam**, Rekha Devi P. V.

   "StellVita-Fe Bar: Functional Seed-Based Iron Toffees for Maternal Health."

   Indian Patent Application No. 202641023322 A, Filed: 27 Feb 2026, Published: 06 Mar 2026.

4. **Renuka Satya Sree Nalam**, Sopeti, Hema Sree, Rekha Devi P. V.

   "StellVita NutriPulse Bar — A Clean-Label, Plant-Based Protein Bar for Daily Nutrition."

   Indian Patent Application No. 202641023317 A, Filed: 27 Feb 2026, Published: 06 Mar 2026.

IV Workshops / Conferences:

1. Workshop on – Advanced Technologies in Identification of Bacteria and Rapid Methods for Determination of Quality of Water – 2018, JNTU, Hyderabad
2. BECon 2K18-19 IIT Delhi Event on – Basic Techniques in Molecular Biology, JNTU, Hyderabad
3. Conference on Fundamentals of CRISPR - Applications in Genome Editing, 2018, JNTU, Hyderabad

4. Workshop on - Recent Trends in Optimization Studies for Engineering Applications, 2018, JNTU, Hyderabad
5. Workshop on – Emerging Trends in Patents & IPR & Future Implications, 2018, JNTU, Hyderabad
6. Participated and presented Poster in IISF – Young Scientist Conference, 2015, IIT Delhi
7. Participated in Google Science Fair - 2015

V Publications:

Review Paper (2)

- Kondakindi Venkateswar Reddy, **Nalam Renuka Satya Sree**, Pabbati Ranjit and Maddela Naga Raju, Quorum quenching a sustainable mitigation strategy, Research Journal of Biotechnology, Vol. 17 (5) May (2022). http://dx.doi.org/10.25303/1705rjbt200202

- Venkateswar Reddy Kondakindi, Ranjit Pabbati, **Renuka Satya Sree Nalam**, Gnana Deepu P, Harihara Jogipeta, Naga Raju Maddela, Ram Prasad, Smart drug nanoparticles from microbes and their drug delivery, Next Nanotechnology, Vol. 9 (100481) April (2026). https://doi.org/10.1016/j.nxnano.2026.100481

Review Chapter (1)

Kondakindi Venkateswar Reddy, **Nalam Renuka Satya Sree**, Pabbati Ranjit, Naga Raju Maddela, Vivek Kumar, Priyanka Jha, Ram Prasad, Matteo Radice, Essential oils, herbal extracts and propolis for alleviating *Helicobacter pylori* infections: A critical view, South African Journal of Botany, Vol – 157, 138-150, (2023).

https://doi.org/10.1016/j.sajb.2023.03.056

Book Chapters (4)

1. Kondakindi Venkateswar Reddy, **Nalam Renuka Satya Sree**, Palakeerti Srinivas Kumar & Pabbati Ranjit, Chapter – Microbial enzymes in the biosynthesis of metal nanoparticles, Book – Ecological interplays in microbial enzymology, Springer, 329-350 11 Nov (2022). http://dx.doi.org/10.1007/978-981-19-0155-3_15
2. Chilumoju Sai Pavan, Palakeerti Srinivas Kumar, **Nalam Renuka Satya Sree**, T. Mohammad Munavar – Chapter 16: Emerging techniques for the mitigation of micro and nanoplastics in Soil, Book – Micro and nanoplastics – threat to plant-based food, Springer, (2023). http://dx.doi.org/10.1007/978-3-031-21195-9_16

3. Kondakindi Venkateswar Reddy, **Nalam Renuka Satya Sree**, Pabbati Ranjit, Naga Raju Maddela, Biomass waste and feedstock as a source of renewable energy, Green approach to alternative fuel for a sustainable future. Elsevier, May (2023). http://dx.doi.org/10.1016/B978-0-12-824318-3.00033-3
4. Katherine Georgina Menon, Kondakindi Venkateswar Reddy, Pabbati Ranjit, **Nalam Renuka Satya Sree**, Microbial processes for synthesizing nanomaterials – Chapter 7: Microbial enzymes in nanoparticle synthesis. Springer, September (2023). http://dx.doi.org/10.1007/978-981-99-2808-8