

Curriculum Vitae

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Education

- **Ph. D (August 2015-April 2021):**
From Department of Biotechnology, Kakatiya University, Warangal, Telangana State, India.
- **Thesis title:** Isolation, characterization and molecular identification of protease producing bacteria from industrial effluents.
- **Master of Science (M.Sc) (May 2014):** In Biotechnology from Kakatiya University, Warangal, Telangana State, India.
- **Bachelor of Science (June 2012):** In Biotechnology, Botany and Chemistry, Kakatiya University, Warangal, Telangana State, India.

Research summary

The focal aim of my Ph.D. work is to identify the Protease Enzyme and Isolation, Identification, characterization. As part of the study, I isolated various bacterial strains from samples of biologically diverse locations and further processed them using advanced techniques. The 16S rRNA sequencing experiments were used to identify and construct a phylogeny for the strain TWSS-P-2. Basic microbiological studies such as culture characterization (physiological and biochemical) as well as culture optimization were also performed. The Protease was partially purified and studied. Conducted SSF



fermentation and it is being considered for large scale production and commercialization. The 16S Rna gene sequence of isolate TWSS-P-2 was further submitted to the NCBI gene bank. As a result, the NCBI authenticated and assigned the accession number MN163058.1.

Research and Professional Experience

- **Honerory Lecturer (August 2017 - July 2020):** In the Department of Biotechnology Kakatiya university College, Warangal, Telang
- **Project Fellow (May 2013–June 2013):** A novel hull shell media for the production of bio ethonal from *Saccharomyces Cerevisiae*, S4BIO Pvt Ltd, Hasthinapuram, Hyderabad.
- **Research Fellowship (April 2016-March 2021):** National Fellowship for Ph.D. Students, University Grants Commission, India.

Technical proficiency

Microbial techniques: Isolation and identification of bacteria, maintenance of microbiological strains, enrichment, plasmid isolation from microbial cells, cloning and transformation.

Molecular analysis: Isolation and estimation of genomic DNA/RNA, cDNA synthesis, PCR amplification, Restriction digestion, carried out agarose and polyacrylamide gel electrophoresis, quantitative real-time PCR of expression analysis of specific genes.

Proteomics: Isolation and estimation of purification of proteins, PAGE-SDS & Native and protein blotting.

Analytical and Purification systems: UV- Vis spectrophotometry, HPLC& GC-MS.

Bioinformatics and computer skills: Knowledge on computational analysis of



biological systems by using Bio-informatics tools such as Multiple sequence alignments, NCBI, BLAST, FASTA, CLUSTALW, MEGA X, PYRE2, UniProt, Expasy and Primer designing.

Stastical analysis: SPSS software.

Publications

1. International Journal of Pharmaceutical Sciences and Nanotechnology,. (2021, July–August). *Enhanced Protease Production from Rummeliibacillus Stabekisii (TWSS-P-2) Strain through Mutagenesis and Optimized Culture Conditions*, Vol 14 No 4 (2021)(Jul 1, 2021). <https://doi.org/10.37285/ijpsn.2021.14.4.5>
2. Suresh, L. (2020, March). Journal of Pure and Applied Microbiology 14(1):461–472. *Isolation and Molecular Characterization of Rummelii Bacillus Stabekisii: An Efficient Protease Producing Bacterial Strain Identified from Environmental Waste Samples of Warangal District in Telangana*. <https://doi.org/10.22207/JPAM.14.1.48>
3. Proteus (Shippensburg, Pa.). (2020, November). Isolation, Molecular Identification, and Characterization of Thermophilic Bacteria from Ushnagundala HotSpring, 11(11,2020). https://www.researchgate.net/publication/346309880_Isolation_Molecular_identification_and_Characterization_of_Thermophilic_Bacteria_from_Ushnagundala_hot_springs_of_Telangana_State_Bacillus_sp_ANRPSA3_as_Potential_Thermostable_lipase_producer
4. J Pure Appl Microbiol.(2020);14(3). (2020, August 27). *Optimization and Molecular Characterization of Lipase Producing Bacillus Subtilis Strain Rcps3 and Bacillus Fumarioli Strain Rcps4 from Oil-Contaminated Soils of Warangal*. <https://doi.org/10.22207/JPAM.14.3.47>
5. International Journal of Pharmacy and Biological Sciences. (2020, January). *Isolation and Characterization of Lipase Producing Bacillus Sonorensis and Bacillus Halotolerans from Oil Contaminated Soil of NorthTelangana*. <https://doi.org/10.21276/ijpbs.2019.10.2.1>

References



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Declaration: I hereby declare that the particulars furnished herein by me are true to the best of my knowledge and belief.

Place:

Date:

(Dr. Lapaka Suresh)

