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Educational Qualification: M. Pharm/M.Sc/M.tech

Year of Registration: 2015

Project Supervisor: Dr. MD. Afzal Azam, Professor and Head, Dept. of Pharmaceutical Chemistry, JSS College of Pharmacy, Ooty.

Research Abstract (Not more than 100 words: Please work on this space creatively to brand your Portfolio)

The increasing incidence of bacterial resistance to most of the available antibiotics has necessitated the discovery of novel efficacious antibacterial agents targeting unexploited enzymes. MurD ligase, is second enzyme of Mur ligase family which catalyses the addition of D-Glutamic acid to the growing peptidoglycan intermediate UMA, is ubiquitous to bacteria. The present investigation aims for *in silico* HTVS identification of novel compounds having high binding affinity with the enzyme. The compounds will be synthesized and subjected to *in vitro* screening against a panel of pathogenic bacterial strains followed by *in vitro* enzyme inhibition studies.

Fellowships: Govt/Non-Govt: DST-SERB

Awards & Scholarships (Top 5 of your achievements in short bullet points)

- Senior Research Fellow under DST- SERB scheme, sponsored by Govt. of India.
- Project associate for 3 months under project entitled "GENESIS" from CSIR-National Chemical Laboratory (Pune).
- GATE-2009 qualified with 404 score and 91 percentile.

Way Forward: (Drop few line (NMT 50 words) to describe where do you position yourself in 5 years)

To become a computational scientist along with renowned IR, NMR and Mass spectral interpreter.