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

The ATP binding sites in these subunits have been less successfully exploited as antibacterial targets with the exception of the natural product coumarins, e.g., novobiocin and cyclothialadines. Inhibitors that target the ATP binding sites in both the GyrB and the ParE subunits would be useful for treating bacterial infections and treating nosocomial infections in hospitals where the formation and transmission of methicillin resistant Staphylococcus aureus resistant bacteria are becoming increasingly prevalent In vitro GyrB and ParE ligase inhibitory activities of the synthesized compounds will be assayed by Malachite green assay method using commercially available S. aureus GyrB and ParE ligase assay kits. Bacterial reverse mutation test will be employed to screen for the genotoxicity of the synthesized compounds using strains of Salmonella typhimurium (OECD 471). Data set will be generated and 3D-pharmacophre models will be generates to further optimize the lead molecules. Optimized lead molecules will be synthesized and biological evaluation will be performed as described above. The outcome of this study will result in cost effective and socially acceptable therapeutic options for the multidrug resistant bacterial diseases.

Fellowships: Govt : QIP-AICTE.

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

- PG Rank 177 at state level and got scholarship.

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

After Successful completion of my PhD, I will be looking forward for higher studies i.e Post doctorate in any of the distinguished university of India or abroad .I want to carry forward my intensity of research and development which will contribute in progress of me and my Nation.