Chapter II

SCOPE OF THE PRESENT INVESTIGATION

The present research study was undertaken to identify potential drug targets from bacterial genome. A novel computational method was designed to predict these drug targets based on organisms’ genome data. Using this approach targets were identified from 80 pathogenic organisms (Annexure-I: List of pathogenic organisms). The targets identified were critically analyzed and validated. The targets identified from these organisms were organized in a web-based database which will facilitate research and development in this arena.

THE OBJECTIVES

1. To utilize the available genomic information to explore new drug targets.
2. To design novel computational approaches for finding drug target from bacterial genome.
3. To identify novel drug targets using the approach for a selected list of pathogenic organisms especially drug resistant microbes.
4. To validate the predicted drug targets.
5. To develop a web based database which contains the drug targets of various microbes to facilitate drug discovery of new class of antibiotics.