Computer Aided Drug Design (CADD)

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Abstract

The demand for new drugs is accelerated as a surge in novel diseases and infections. The traditional process of drug discovery and development is an expensive process in terms of money, time and manpower. It takes an average of 10 to 15 years with an appropriate cost of 800 million US dollar. This process can be accelerated with development of various computational tools and methods. Computer aided drug design (CADD) is a powerful technique due to its use in different stages of drug discovery. The most commonly and widely used approaches are Structure based drug design and Ligand based drug design. Structure and ligand-based approaches are in principle analogous to high-throughput screening in that both target and ligand structure information is imperative These approaches involve molecular docking, pharmacophore, and ligand design methods. structure-based and ligand-based drug design suggest that their complementary use, and their integration with experimental methods, has a strong impact on rational designing of a drug.

Biography:

Kunchala Gopi Krishna is from Pharmaceutical student at Greenwich University. He has handful of Knowledge on Analytical equipment like HPLC, GC, and UV. Meticulous Approach to work, Good communication skills and Teamwork are my strengths.