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In-silico Drug Designing Methods

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ABSTRACT

Objective: To introduce new *in-silico* drug designing methods.

Methods: *In-silico* drug designing is the identification of the drug target molecule by employing bioinformatics tools. Ligand based drug designing and Structure based drug designing are the two different types of *in-silico* drug designing, absorption, distribution, metabolism and excretion properties based drug delivery system models visualized by scientist yields real time monitoring and control over the duration of drug discovery process. It acts as an in silico tool for investigating the therapies of the different types of rare diseases. The basic steps in *in-silico* drug designing are (a) disease related genomics (b) target identification and validation (c) lead optimization (d) preclinical trials (e) clinical trials. In this the selection of a disease determines the biochemical basis of the disease process. The present compilation provides an overview of the various i*n-silico* drug designing models for the drug delivery system.

Result: *In-silico* technology alone cannot guarantee the identification of new, safe and effective lead compound but more realistically future success depends on the proper integration of new promising technologies with the experience and strategies of classical medicinal chemistry.

Conclusion: Safe and effective, *in-silico* drug designing methods are crucial for investigating and producing the new, specific therapies for the treatment of a wide range of rare diseases.

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Research

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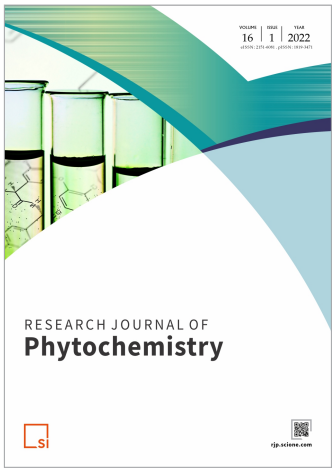

Aims & Scope

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