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Computer aided drug design of pharmaceuticals: An valuable tool in the drug discovery and development

Paranjeet Kaur and **Gopal L Khatik**
Lovely Professional University, India

In this fast growing era, advanced technologies have been emerged as a unique databank in transforming high throughput data into datasets which stores the information in order to optimize the hypothesis. It plays greater role in the field of medicinal chemistry involving the computer applications to find the solution of interesting chemical problems. To facilitate drug discovery process, computational approaches have set landmark in whole drug discovery process pipeline from target identification and mechanism of action to identification of lead and drug candidate. These approaches are highly reliable in making cost effective personalized medicines. We searched the scientific database using relevant keywords. Among the searched literature, only peer-reviewed papers were collected which addresses our questions. The retrieved quality papers were screened and analyzed critically. The key findings of these studies included along with the importance. The quality research papers are included in this review, particularly the computational approaches which account for design and development of cost effective personalized medicines. Researchers came up with several approaches which facilitate gaining in-depth knowledge of disease mechanism which offers new concept for developing new drug candidates. This review discusses the important aspects of information technologies and chemoinformatics as a tool in the drug design and discovery process.

Biography

Paranjeet Kaur has completed her Masters in Pharmacy in year 2015 from Lovely Professional University and pursuing PhD in Pharmaceutical Chemistry from Lovely professional University. She has published 7 papers in reputed journals and is working as Junior Research Fellow under Science and Engineering Research Board (SERB act 2008) Department of Science and Technology, Government of India in Lovely professional University.

paran.pharma@gmail.com

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