

5th International Conference on
**Medicinal Chemistry &
Computer Aided Drug Designing and Drug Delivery**
December 05-07, 2016 Phoenix, USA

Current topics in computer-aided drug design technologies: Future aspects

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Drug discovery is a process aiming at identifying compound useful in curing certain disease by interacting with certain biological target molecule. Since it may take years to develop a new drug that can be introduced into the market, the process of drug discovery is a tedious, time consuming one. This led to the introduction of computer aided drug design (CADD) technologies in the field of drug discovery, as CADD enables the pharmaceutical researcher to reduce the number of compounds to be synthesized and tested and reduce up to 50% in the cost of drug design as well; also it increases the probability of design of compounds with acceptable biological activity. Advances in computational techniques and hardware solutions have enabled *in silico* methods to speed up lead optimization and identification.

Biography

Reham F Barghash is an Associate Professor at National Research Centre (NRC), Egypt. She has received her PhD degree in Applied Organic Chemistry from Ain-Shams University, Cairo, Egypt. Through several research grants, she got the opportunities to carry out her research work in Italy at Ferrara University from 2006-2008 and Post doctorate at University of British Columbia's Okanagan Campus, Kelowna, BC, Canada (2011). She has been the recipient of NRC Award for the best PhD (2009) in Chemical Sciences and their Applications and Encouragement NRC Award (2013). She has published more than 20 papers in reputed journals and has been serving as peer Reviewer of international journals.

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