Tentative Outline

Thematic Issue for Current Pharmaceutical Design

“Current Pharmaceutical Innovations and Implementation of In-silico Models with Designs of Promising Lead Molecules and Formulations.”

Aims and Scope:

In earlier days; the finding and establishment of the lead drug molecule and pharmaceutical product need plenty of time, manpower and expenditure. The increasing demand for personalized dosage form necessitates the production of easily customizable with less cost, affordable and scientific approach. But recently in early twenty-first century drug discovery and evolution of novel dosage form has witnessed the implementation of scientific tools and mathematical models for a compound or product development likely to be successful, and also conversely enable identification of associated liabilities at an earlier stage of development. These concepts need the integration of mathematical modeling and in-silico designs from large available theoretical and web database as well as informatics tools to find out the desired candidate and results. Hence, a mathematical description of an in-silico approach of these systems is the only feasible way to manage such diverse properties of different products or pharmaceutical dosage formulations. The proposed thematic issue will keep a focus on the involvement and implementation of in-silico models and design in pharmaceutical dosage and drug design. It will explore the application of computational tools that can be utilized for theoretical background and methodologies of a pharmaceutical properties, compositions, formulation techniques, ADME, drug interactions and network modeling and discuss the various applied strategies to systematically retrieve, integrate and analyze datasets from the diverse sources.

This thematic issue aims at featuring the latest design and developments of drug research utilizing informatics tools and to encourage design, prediction, and development of leads and new drug formulations. This special thematic issue is an effort to provide the recent updates through good-quality review papers including most recent patents filed in the relevant areas.

Keywords: Computer-aided drug delivery, prediction of novel dosage formulations, mathematical model, in-silico designs, drug design and discovery.

Subtopics:
1. Computational modeling of drug delivery and disposition
2. In-silico approaches in preclinical development
3. In silico models of drug metabolism and drug interactions
4. Optimization techniques in pharmaceutical formulation
5. Drug design and discovery

Schedule:
- Manuscript submission deadline: 15 May 2019
- Peer Review Due: 15 July 2019
- Revision and final manuscript submission by the authors: 15 August 2019
- Announcement of acceptance by the Guest Editors: 5 September 2019
- Final Manuscript Due: 10 September 2019

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