Tentative Outline

Special Thematic Issue for Current Drug Targets

The Computational Methods in Drug Targets Discovery

Guest Editor: Hao Lin

Aims & Scope:

With the development of high-throughput sequencing techniques, more and more sequencing data is available, including genomics reads, transcriptomes data, and proteomics sequences, which provide us an opportunity for disease treatment and prevention that takes into account individual variability in environment, lifestyle and genes for each person. Thus, it is critical to develop various methods in the identification of drug targets. Application of computational methods in drugs targets discovery is more and more popular because these techniques can extract the essential characteristics of research object and improve accuracies of models, which is needed by all biological scholars. This special issue will focus on various aspects of the development and application of machine learning techniques in drug targets recognition analysis.

Keywords: Drug targets, Machine learning, Recognition

Subtopics:

The subtopics to be covered, but not limited, within this issue are listed below:

- The development of computational techniques in drug data analysis.
- The application of machine learning techniques in ion channel identification.
- Enzyme types prediction using machine learning techniques.
- The classification of G protein coupled receptor.
- The comparison of performance among machine learning approaches on drug targets identification.
- Sequence and structure features in drug targets.

Schedule:

- Manuscript submission deadline: Aug. 1 2018
- Peer Review Due: Sep. 1 2018
- Revision Due: Oct. 1 2018
- Announcement of acceptance by the Guest Editors: Nov. 1 2018
- Final manuscripts due: Dec. 1 2018

Contacts:

Guest Editor: Hao Lin
Affiliation: Center for Informational Biology, University of Electronic Science and Technology of China
Email: hlin@uestc.edu.cn

Any queries should be addressed to cdt@benthamscience.org