

Tentative Outline

Special Issue for Current Medicinal Chemistry

Guest Editor: Dr. Hao Lin

Computational methods and resources in biological and medical data

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. Therefore, computational methods and resources are playing a significant role in many biological and medical studies. Big data in biological and medical sciences are waiting for better curation, more efficient analysis, precise interpretation, accurate modelling and prediction. This thematic issue will focus on various aspects of the development and application of computational techniques and resources in biological and medical data analysis.

We invite authors to contribute review articles on computational methods and resources for all aspects of biological and medical studies. The special issue aims to provide an open, multidisciplinary forum for biological databases, web services, stand-alone programs, artificial intelligent algorithms and theoretical models for data mining and knowledge discovery in biology and medicine.

Keywords:

high-throughput sequencing techniques, biological databases, artificial intelligent algorithms, multidisciplinary forum.

Subtopics:

- New biological and medical database or lasting database with substantial updates;
- New or updated biological and medical webservers;
- New or better standalone biological and medical programs and tools;
- New or better pipelines and workflows for biological and medical data processing and mining;
- Algorithms and methods for biological and medical studies.

Schedule:

Manuscript Due Date

Nov 1, 2020

Final Decision Date

Dec 1, 2020

Publication Date

Jan 1, 2021