Tentative Outline

Special/Thematic Issue for the Journal
The Open Bioinformatics Journal

Bioinformatics' Impact on Drug Discovery and Pharmacology

Guest Editor: Salman Akhtar

Scope of the Thematic Issue:
The Open Bioinformatics Journal is pleased to announce a special issue focused on the integration of bioinformatics into the fields of drug discovery and pharmacology and its latest applications. This special issue aims to bring together experts from various disciplines to share their recent research and highlight the impact of bioinformatics on these important areas.

Bioinformatics has transformed the way drug discovery and pharmacological studies are conducted, providing newer and innovative approaches for identifying drug targets, discovering & optimizing drug candidates, metabolic modeling and predicting their safety and efficacy. This field has become an indispensable tool for drug discovery and development, enabling researchers to analyze large amounts of biological data and uncover novel targets and newer leads for therapeutic intervention.

We hereby invite original research articles, review articles, and case studies that showcase recent advancements and innovations in bioinformatics-based drug discovery and pharmacological approaches, including but not limited to:

- Bioinformatics-based drug target identification and validation
- Predictive toxicology and safety assessment through bioinformatics
- Machine learning and artificial intelligence in drug discovery and pharmacology
- Bioinformatics in pharmacogenomics and precision medicine
- Network pharmacology and systems biology
- Repurposing and repositioning of drugs with the help of bioinformatics

All submissions must be in accordance to journal guidelines and represent original research/review articles that has not been published or submitted for publication elsewhere. The papers will undergo a thorough peer-review process as per journals guidelines to ensure their quality and impact.

Keywords: Bioinformatics-based drug target, Predictive toxicology, metabolic modeling, Bioinformatics in pharmacogenomics

Sub-topics:

- Bioinformatics-based drug target identification and validation
- Predictive toxicology and safety assessment through bioinformatics
- Machine learning and artificial intelligence in drug discovery and pharmacology
- Bioinformatics in pharmacogenomics and precision medicine
- Network pharmacology and systems biology
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Schedule:

➢ Complete Thematic issue submission deadline: September 30, 2023

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