

Tentative Outline (Preliminary Proposal of Thematic Issue)

Special/Thematic Issue for the Journal Current Topics in Medicinal Chemistry

Current Advances in Drug Molecules for Chronic Diseases

Guest Editor: Dr. Yafeng Li

Co-Guest Editor: Dr. Jianbo Qing

Scope of the Thematic Issue:

Chronic diseases encompass a range of bodily systems including the cardiovascular, respiratory, digestive, and urinary systems, among others. In recent years, there has been a significant increase in the incidence of cardiovascular and cerebrovascular diseases, chronic kidney disease, liver cirrhosis, and other related diseases. Consequently, these diseases have emerged as a pressing global public health concern that demands immediate attention.

Pharmaceutical drugs are essential for the primary treatment of chronic diseases. A judicious and effective selection of drug molecules can considerably mitigate the harm caused by these diseases and slow down their progression. Despite the ongoing efforts, the pathogenesis of several diseases remains inadequately understood. This knowledge gap underscores the critical need for in-depth investigations into the mechanisms and targets of drug molecules. Achieving personalized diagnosis and precision medicine necessitates a comprehensive understanding of disease occurrence and progression, as well as the identification of new targets for prevention and treatment, along with the screening and design of novel drug molecules.

In recent years, the advent of biotechnology has revolutionized the study of drug molecules. By employing techniques such as multi-omics approaches, it becomes possible to identify potential preventive and therapeutic targets. Furthermore, computer technology and nanotechnology have emerged as powerful tools to facilitate drug design and delivery. These advancements offer fresh insights into the development of drug molecules, providing a more solid theoretical foundation and more effective means for the prevention and control of chronic diseases.

The special issue will primarily concentrate on the latest advancements in drug molecule research pertaining to the prevention and treatment of chronic diseases. This includes an in-depth exploration of drug targets, the intricate selection and mechanisms of drug molecules, and their innovative design and delivery methods.

Keywords: Drug molecules, chronic diseases, prevention, treatment, Pharmaceutical drugs, biotechnology.

Sub-topics:

- Recent advances in drug molecules for chronic diseases.
- Drug molecules more precisely target new mechanisms of disease.
- Current advances in the design and delivery of drug molecules.

Schedule:

- Complete Thematic issue submission deadline: **29 February 2024**

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