Tentative Outline

Special Thematic Issue for Current Topics in Medicinal Chemistry

Current advances in drug design and cancer research
Guest Editor: Jian Zhang

Aims & Scope:

Despite rapid developments in the recent pharmaceuticals industry, the launch of a successful drug is still slow, expensive, and risky. Research focusing on different drug discovery stages, exemplified by the identification, validation, and optimization of druggable targets or lead compounds, preclinical testing, and clinical trials, contributes a lot to accelerate the progress of drug design and vaccine development especially in the epidemic like COVID-19. The explosion of genetic, transcriptomic, and proteomic data provides a large number of new targets and opportunities for the prognosis, diagnosis, and treatment of diseases. Different from other diseases, cancer usually causes some fatal and irreversible impairments in the human body, thus has becomes one of the major threats to public health in the world. According to the recent survey from the World Health Organization (WHO), about 18 million new cancer cases were diagnosed in 2019. WHO also warns that, if current trends continue, the world will see a 60% increase in cancer cases over the next 20 years. The diagnosis and screening in the earliest possible stage significantly help increase the chances of cure among all current cancer treatments. The main aim of this thematic issue is to collect and summarize the recent review of all aspects of drug design and discovery, biological and medicinal chemistry, and cancer prognosis, diagnosis, and treatment.

Keywords: Drug design, drug discovery, medicinal chemistry, cancer prognosis, cancer diagnosis, cancer treatment

Subtopics:

The subtopics to be covered within this issue are listed below:

- ☐ Wet lab- or dry lab-based drug design
- ☐ Drug discovery and virtual drug screening
- ☐ Biological and medicinal chemistry
- ☐ Cancer diagnosis, prognosis and treatment

Schedule:

- ■ Manuscript submission deadline: Jan. 20, 2021
- ■ Peer review due: Feb. 20, 2021
- ■ Revision due: Feb. 30, 2021
- ■ Announcement of acceptance by the guest editor: Mar. 10, 2021
- ■ Final manuscripts due: Mar. 20, 2021

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