Tentative Outline

Special Thematic Issue for Current Topics in Medicinal Chemistry

Current Advances in Computational and Experimental Approaches for Nanoparticle-Drug Conjugates

Guest Editors: Xubo Lin

Aims & Scope:

In the past decade, nanomedicines have shown great potential in treating a series of diseases including cancers. Especially, nanoparticle-drug conjugates (NDC), which may combine the advantages of both nanoparticles and drugs in the diagnosis and therapy, have attracted many attentions. Molecular details about the interactions between nanoparticle-drug conjugates and target proteins, which are hot research topics in the field of nanomedicines, will be essential for the safer and more precise biomedical applications of nanoparticle-drug conjugates. Medicinal chemistry has witnessed a great success in drug discovery and drug-protein interactions. It is also promoting the better design of nanoparticle-drug conjugates for better applications in diagnosis and therapy. This special issue aims to cover current progresses of both computational and experimental approaches for the better design of nanoparticle-drug conjugates.

Keywords: Nanoparticle-Drug Conjugates; Computation and Experiments; Nano-Bio Interactions; Molecular Mechanism; Optimal Design

Subtopics:

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

- ➢ Chemical synthesis of nanoparticle-drug conjugates
- ➢ Nanoparticle-drug interactions
- ➢ The protein corona formation on the surface of nanoparticle-drug conjugates
- ➢ Optimal design of multifunctional nanoparticle-drug conjugates
- ➢ Action mechanism of nanoparticle-drug conjugates

Schedule:

- ✧ Manuscript submission deadline: April 15, 2020
- ✧ Peer Review Due: May 01, 2020
- ✧ Revision Due: May 20, 2020
- ✧ Announcement of acceptance by the Guest Editors: May 28, 2020
- ✧ Final manuscripts due: June 01, 2020

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