Current conjugation strategies for biomedical applications

Special Thematic Issue for Current Medicinal Chemistry

Title of thematic issue

Guest Editors: Thao Truong-Dinh Tran

Aims & Scope:

Conjugated materials securing specific functional groups have attracted increasing attention in recent studies of drug delivery systems for theranostics. A number of nanocarriers have been investigated as promising materials for the conjugation in regards to delivery vehicles with different types of cargo such as hydrophilic drug, hydrophobic drug, protein, DNA, RNA, etc. in biopharmaceutical applications. Additionally, targeting delivery systems have been developed for the aims not only to improve therapeutics but also to deliver the cargo to targeted site selectively for reducing side effects.

This special issue of Current Medicinal Chemistry will provide readers with in-depth reviews on conjugation strategies in treatment and diagnostic of different diseases. This theme issue aims to provide state-of-the-art on conjugation methods, techniques and applications in the field of biomedical applications. The theme will be expected to contribute broad strategies that will support scientists discovering a specific technique in drug development and discovery which include but not limited to studies of polymer conjugates, polymer-drug conjugates, self-assembled nanoparticles.

Keywords: Drug delivery, nanomedicine, targeting, conjugates, theranostics, polymer conjugates, polymer-drug conjugates, self-assembled nanoparticles

Subtopics:

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

- Current challenges in polymer conjugates for drug delivery
- Current challenges in polymer-drug conjugates
- Current conjugated materials in biomedical applications
- Update strategies on improved targeting nanomaterials
- Recent strategies of specific molecules decoration of nanomaterials

Schedule:

- Manuscript submission deadline: June 2019
- Peer Review Due: August 2019
- Revision Due: October 2019
- Notification of acceptance by the Guest Editor: November 2019
- Final manuscripts publication: March 2020

Contacts:

Guest Editor: Thao Truong-Dinh Tran
Ton Duc Thang University
Vietnam
Email: trantruongdinhthao@tdt.edu.vn

Any queries should be addressed to cmc@benthamscience.org.