Tentative Outline

Special Thematic Issue for Current Medicinal Chemistry

Title of thematic issue: Armamentrum of PEGylated Nanotherapeutics: Drug Delivery of Small to Supramolecules

Guest Editors: Jitender Madan, Ramesh Chandra and Ravi Tomar

Aims & Scope: Polymer based drug delivery has augmented the breadth of research for renovating drug delivery. In this framework, PEGylation has improvised the therapeutic efficacy of a wide category of pharmacons including proteins, enzymes, small molecular drugs, liposomes, nanoparticles, micelles, and dendrimers by harmonizing their retention time and defending them against various derogatory mechanisms allianced with cellular machinery. The multiple benefits of PEGylated conjugates resulting in bolstering up of pharmacokinetic profile and safeguarding from reticuloendothelial cells as well as proteolytic enzymes. Moreover, PEGylation also diminishes the evolution of neutralizing antibodies by masking the antigenic sites on a protein. Hence, the accustomed proposal will envelope the succeeding affairs to climax the perturbed issue.

Keywords: Drug Delivery, Poly (ethylene glycol), Pharmacokinetics, Pharmacodynamics, Proteins, Macromolecules, Adjuvants

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

1. Chemistry and synthesis of PEGylated conjugates
2. Pharmacokinetics and biodistribution of PEGylated drugs
3. PEGylation concept and applications in cancer
4. Peptide and Protein PEGylation
5. POEGMALation, a next generation PEGylation technology
6. Clinical aspects of PEGylated drugs

Schedule:

- Manuscript submission deadline: January 10, 2018
- Peer Review Due: February 10, 2018
- Revision Due: March 10, 2018
- Announcement of acceptance by the Guest Editors: June 1, 2018
- Final manuscripts due: August 20, 2018

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