

Tentative Outline

Special Thematic Issue for the journal Current Drug Delivery

Title of the Thematic Issue: New trends in the research of anti-infective agents

Guest Editor: Zhepeng Liu

• Scope of the Thematic Issue:

Advances in drug delivery throughout the latest years have paved the way for the development of new methods to diagnose and treat disease. For drug delivery to be applied, combination of different scientific branches is often required, including biology, chemistry, physics and sometimes devices or engineering. The goal of development of new drug delivery system is to accurately control the rate and site of drug delivery, which increase the treatment of anti-infective agent. The aim of the present Special Issue is a thorough collection of articles dealing with the formulation such as nanoparticle, liposome, micelle, nanocrystal, nanofibers, and drug-device combination for delivery of chemical APIs/peptides/protein/nucleotide drugs, of which authors show the mechanisms of action and possible applications for "New trends in the research of anti-infective agents".

Keywords: Bioavailability/Pharmacokinetics, Drug Controlled Release, Liposomes/Micelles, Nanoparticles, Nanocrystal, Nanofibers, Chemical APIs, Protein/peptide, Nucleotide, anti-infective agent

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- Bioavailability/ Pharmacokinetics of drug delivery systems
- Advance formulations for drug delivery such as nanoparticle, liposome, micelle and nanocrystal
- Delivery of chemical drugs, protein peptides or nucleic acid drugs
- Manuscripts on the application of drug-device combination are also welcome.

Tentative titles of the articles and list of contributors:

Tentative titles of the articles and list of contributors with their names, designations, addresses and email addresses should be provided.

1. Optimization of poloxamer 407 micelle-based hydrogel with suitable thermosensitive gelation rate for drug delivery to esophageal wall.
2. Delivery of antitumor monoclonal antibodies: Smart strategies for current challenges.
3. Delivery of mRNA for liver tissue regeneration.
4. Electrospun beads-on-the-string nanoproducts: Preparation and drug delivery application.
5. Effects of Epirubicin-loaded HepaSphere Microsphere with a New Loading Method transarterial chemoembolization: In vitro and In vivo Experiments.
6. Different morphologies obtained via self-assembly of biodegradable based block copolymers.
7. Dual Drug Delivery System of RAPTA-C and Paclitaxel based on Fructose coated Nanoparticles for Metastatic Cancer Treatment.

Schedule:

- ✧ Thematic issue submission deadline:
2022/11/30

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