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Nanotechnology Applications in the Pharmaceutical Field: Lipid-Based Nanoparticles

Guest Editor:

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Deadline for manuscript submissions:
closed (10 March 2019)

Message from the Guest Editor

The recent involvement of nanotechnology in the pharmaceutical field has led to the development of several nanocarriers as drug delivery systems. The great number of advantages of lipid-based nanoparticles has prompted researchers to investigate the feasibility of using these nanocarriers to solve drug bioavailability and targeting issues.

This special issue aims to cover a wide range of aspects related to the potential use of lipid-based nanoparticles for various therapeutic purposes and different administration routes.

Authors are invited to contribute original research articles and comprehensive review articles focused on the most recent advances in the design, characterization and pharmaceutical applications of lipid-based nanocarriers and the relevant future perspectives in their potential clinical use.

Potential topics include, but are not limited to lipid –based nanoparticles brain delivery, topical (dermal and ocular) delivery, transdermal delivery, parenteral administration, oral administration, in vitro and in vivo evaluation methods, design and characterization.

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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