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New Avenues of Research for Nanoparticle Drug Delivery Systems

Guest Editor:

Message from the Guest Editor

Prof. Dr. Rafael Prado-Gotor

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Deadline for manuscript submissions: closed (30 June 2021) Dear Colleagues,

The understanding of different factors that control the correct procedure for drug loading and nanoparticle drug delivery systems has a significant impact on many scientific fields. Not only the election of the correct nanoparticle, the interaction with the biological system or the study of the liberation mechanism is needed to be perfectly understood. In order to well design nanoparticle drug delivery agents a high drug-to-nanoparticle ratio must be achieved. Also, biocompatibility and control of release kinetics are key factors for the design of NP as drug delivery vectors.

Today, efforts on the development of appropriate nanosystems are focused on producing new materials that release drugs in a sequential manner with different therapeutic efficacy. This Special Issue will try to consider all of these key factors that may be taken into account for nanosystems to be suitable for drug release. We invite authors to contribute original research articles or minireview articles covering new synthesis and selection type of NP, drug loading into NPs, stability and new results for in vitro and in vivo studies in order to use NP as efficient drug delivery systems.









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Editor-in-Chief

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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, metalorganic 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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