Special Issue

Nanomedicine and Biomimetic Drug Delivery Systems

Message from the Guest Editors

In recent years, biomimetic nanomedicines arose as novel generation drug delivery systems bestowed with unexpected properties in terms of targeting diseased tissues, their ability to communicate with the biological milieu, and developing a biological response as is, even without the need for delivering a cargo. This Special Issue plans to give an overview of the most recent advances in the field of biomimetic drug delivery systems and nanomedicine, as well as of their applications in diverse areas, from immunology to personalized therapy. The Special Issue is aimed at providing selected contributions on advances in biomimetic nanomedicine synthesis and characterization, the evaluation of their interaction with the biological milieu (i.e., plasma proteins, immune systems cells, lymphoid organs, and immune-relevant organs), and their theranostic potential. Inputs on scalable manufacturing protocols, protein corona's involvement, and regulatory processes will enrich the discussion on the development and potentiality of such drug delivery systems.

Guest Editors

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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.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
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