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Advances in Natural and Bio-Inspired Nanoparticles for the Treatment of Cardiovascular Diseases

Guest Editors:

Prof. Dr. Mariana Varna-Pannerec

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Deadline for manuscript submissions:
closed (1 December 2023)

Message from the Guest Editors

Cardiovascular diseases are a major cause of disability and death worldwide. Despite substantial improvements achieved in the treatment of these diseases, there is still an essential need for drug innovation. With this aim, a large number of therapeutic options have been developed for the management of cardiovascular diseases.

In the cardiovascular field, special attention is given to bioinspired nanomedicine as a novel drug delivery platform to enhance drug biocompatibility, ameliorate pharmacokinetics, and avoid the rapid clearance of the drug. Most natural and bio-inspired nanosystems are cell-derived (e.g., erythrocytes, platelets), extracellular vesicles, viruses or bacteria, proteins (e.g., albumin), and synthetic HDL.

The present Special Issue aims to present comprehensive research outlining the progress in applying bio-inspired nanosystems to improve therapy or diagnosis in the cardiovascular field.

The types of manuscripts accepted are full papers, short communications, reviews, points of view, and methodological articles.

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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, 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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