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Nanomaterials for Biomedical and Biotechnological Applications

Guest Editor:

Dr. Angelo Ferraro
National Technical University of Athens, Athens, Greece

Deadline for manuscript submissions:
closed (30 October 2021)

Message from the Guest Editor

Dear Colleagues,

There are numerous biotechnological applications of nanomaterials in biomedical and clinic fields as well as industrial processing. Some examples include drug delivery, anti-tumor therapies, stem cell manipulation, genes transfer, separation of biomolecules and ions, biosensors, and biofuel production, among others. The great potential that these applications have in scaling up industrial processing or improving the efficiency and efficacy of medical treatments is becoming increasingly evident. Important aspects for the use of nanomaterials are their synthesis, stability, biocompatibility, and easy manipulation. All these parameters need constant improvement both to reach a high standard of safety and to make them accessible for marketing.

This Special Issue focused on Nanomaterial for Biomedical and Biotechnological Applications will highlight the latest methodologies, protocols, and techniques that employ nanomaterials as the main element for the improvement of biomedical treatments, as well as biotechnological processes.

Dr. Angelo Ferraro
Guest Editor

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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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