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Nanobiotechnologies in Environment and Medicine

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

Biotechnologies have a fundamental role in developing environmental preservation and medicine (green biotechnologies and red biotechnologies). Nano-enabled biotechnological solutions may exert the same or an even greater attraction and impact on the scientific community and wider society in the future.

Fields such as bioremediation, phytoremediation or, more generally, sustainable solutions for environmental health, but also for the reduction or abatement of greenhouse gases, will certainly benefit from the encounter between nanomaterial science and biotechnology.

On the other hand, if environmental health is relevant to maintaining human health, the possibility of a more direct role of nanobiotechnologies in preventing or preserving human health cannot be ignored. Relevant examples include nano-treatments or treatments with nano-enabled constructs for specific human diseases, as well as the production of novel foods which involve nanobiotechnology to prevent or support the needs of actual lifestyles.

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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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