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Nanotechnologies and Natural Compounds: Current Trends and Applications

Guest Editors:

Prof. Dr. Carla Caddeo

Department di Scienze della Vita e dell'Ambiente, University of Cagliari, 09124 Cagliari, Italy

Prof. Dr. Claudia Carbone

1. Department of Drug and Health Sciences, University of Catania, Catania, Italy
2. NANOMED-Research Centre on Nanomedicine and Pharmaceutical Nanotechnology, University of Catania, Catania, Italy

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Message from the Guest Editors

Natural compounds generally have weak bioavailability due to low water solubility, poor absorption, and rapid metabolism. These problems can be tackled using drug delivery approaches based on nanotechnologies, which can enhance bioavailability and, thus, therapeutic efficacy. Indeed, nanosystems, such as liposomes, polymeric or lipid nanoparticles, nanofibers, etc., can provide cargo protection, modified pharmacokinetics and distribution, increased dose delivery to target sites, enhanced drug transport through biological membranes, and prolonged or controlled drug release, through different administration routes.

This Special Issue welcomes the submission of original research papers, communications, and reviews that present an overview of the current trends and applications of nanotechnologies for the exploitation of the therapeutic potential of natural compounds.



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Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University
of California Davis, One Shields
Avenue, Davis, CA 95616-5270,
USA

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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Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
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