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# **Recent Advances in the Development of Nano-Biomaterials**

Guest Editors:

### Message from the Guest Editors

**Prof. Dr. Haralambos Stamatis** Department of Biological Applications and Technology, University of Ioannina, 45110 Ioannina, Grecee

#### Dr. Michaela Patila

Department of Biological Applications and Technologies, University of Ioannina, 45110 Ioannina, Greece

Deadline for manuscript submissions: **30 June 2024** 

Nano-biomaterials are identified as biomaterials (including carbon-based nanomaterials, polymers, metals, ceramic, and composites) with constituent or surface feature sizes less than 100 nm and are being researched as potential alternatives to conventional nanomaterials for biological applications. These nanoscale biomaterials can be produced by living organisms, mainly microbes, or derived from natural sources, such as plant extracts and agricultural wastes. Moreover, functionalized conventional nanomaterials through the encapsulation or immobilization of biological macromolecules, such as enzymes and other proteins, can also be labeled as nanobiomaterials, considering the impacts of biomolecules on a nanomaterial's parental characteristics and properties. The unique properties of nanoscale biomaterials, along with their enhanced biocompatibility, bioavailability, bioreactivity, and low or negligible toxicity, overcome scientific and medical challenges, thus making them an attractive research direction in a vast variety of biomedical and biotechnological applications.









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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

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