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Molecular Biological Applications of Nanomaterials

Guest Editor:

Message from the Guest Editor

Dr. Vijayakumar Sekar Marine College, Shandong University, Weihai 264209, China

Deadline for manuscript submissions: **31 January 2025** Dear Colleagues,

Nanomaterials. such nanoparticles, as nanorods. nanoshells, dendrimers, and nanofibers, exhibit distinct physical, chemical, and biological characteristics as a result of their very small size. These characteristics include a significant ratio of surface area to volume, adjustable optical and electrical properties, and the capability to engage with biological molecules on a molecular scale. Nanomaterials possess certain characteristics that make them very appropriate for a wide range of applications in the field of molecular biology. Nanomaterials have become a revolutionary category of materials because of their distinct characteristics and adaptable uses. Nanomaterials have significant potential to greatly transform diagnostics, treatments, and basic biological research in the field of molecular biology. The aim of this Special Issue is to investigate the many applications of nanomaterials in the field of molecular biology, with a particular focus on their existing usage, prospective advantages, toxicology to human beings, animals, and the environment, as well as future possibilities.



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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

Message from the Editor-in-Chief

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