



## Molecular Biological Applications of Nanomaterials

Guest Editor:

**Dr. Vijayakumar Sekar**

Marine College, Shandong  
University, Weihai 264209, China

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### Message from the Guest Editor

Dear Colleagues,

Nanomaterials, such as nanoparticles, 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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*International Journal of Molecular  
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MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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