



Cutting-Edge Research of Nanoscience and Nanomaterials Use in Biosciences

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Message from the Guest Editors

Nanoscience and nanotechnology find applications in every sector of our daily life and aim to promote industrial competitiveness and ameliorate well-being and health. As examples, in the agri-food field, the production of nano-agrochemicals holds the promise to promote sustainability by reducing the massive exploitation of external inputs through targeted delivery, improved uptake and use efficiency. Nano-sensors allow automated monitoring of crops and resource management, while smart nano-packaging could grant an enhanced shelf life of food.

Similarly, nano-enabled materials have increased relevance in biomedicine, especially regarding their noteworthy potentialities for active targeted drug delivery, improved drug loading and stability for either in vivo and/or in vitro 3D experimental set-ups.

This Special Issue of the *International Journal of Molecular Sciences* is dedicated to articles investigating innovative or pioneering methods on the engineering and characterization of nanomaterials, their interaction with biological matter, and technology transfer to the agri-food, environment, biomedicine, and space biology sectors.





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Message from the Editor-in-Chief

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