

## Special Issue

# Toxicology Assessment of Nanoparticles and Emerging Pollutants on Cell Models and Living Organisms

### Message from the Guest Editors

The wide use of nanoparticles in several fields due to their unique physicochemical properties has raised the problem of their toxicity. Despite their numerous advantages, many nano-scale inorganic materials are considered toxic due to the high surface-to-volume ratio that increases their interaction with biological systems. On the other side, in recent decades, emerging pollutants (new flame retardants, new phthalates, alternative bisphenols) have been used as additive chemicals in a several consumer products. These harmful substances are linked to several human health ailments, e.g., disturbances in hormone levels, fecundability, neurodevelopment disorders, and adverse birth outcomes. This Special Issue aims to understand the toxic effects of different kinds of nanoparticles and emerging pollutants on cells and living organisms investigating the underlying mechanisms, disturbances in the biochemical pathways, and toxicogenomic changes. In addition, new techniques able to functionalize the surface of nanoparticles to reduce their adverse effects in vitro and in vivo are investigated.

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### Guest Editors

Dr. Valeria De Matteis  
Dr. Mariafrancesca Cascione  
Prof. Dr. Quaiser Saquib

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### Deadline for manuscript submissions

closed (31 December 2022)



## International Journal of Molecular Sciences

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