

Special Issue

Nanotechnology and RNA-Based Technologies Applied to Prophylaxis and Advanced Therapies

Message from the Guest Editors

Various RNA technologies have revolutionized biotechnology by enabling the precise manipulation and understanding of genetic information. Techniques such as RNA interference (RNAi) and CRISPR-Cas9 utilize RNA molecules to target and modify specific genes, offering potential treatments for genetic disorders and cancers. mRNA vaccines, like those developed for COVID-19, showcase the power of RNA in rapidly producing effective vaccines. Overall, RNA technologies are paving the way for innovative therapies, diagnostics, and research tools in biotechnology. This Special Issue aims to cover the aspects of nanotechnology and RNA-based technologies applied to vaccines and treatments, including recent original research or reviews, based on any of the following themes:

- Nanotechnology for RNA applications;
- Lipid nanoparticles for mRNA vaccines and therapies;
- mRNA vaccines and therapies;
- RNA-based advanced therapies;
- RNAi for therapeutics.

We look forward to receiving your contributions.

Guest Editors

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