

## Special Issue

# Gene Delivery Tools for Biomedical Engineering Applications

### Message from the Guest Editors

Biomedical engineering stands at the forefront of pioneering advancements, with gene delivery tools assuming a pivotal role in shaping the future of healthcare. These tools are integral to comprehending, diagnosing, and addressing human diseases, particularly within the context of gene therapy—a promising strategy for ameliorating genetic disorders, cancers, and other maladies at the genetic level. They enable the precise conveyance of therapeutic genes or gene-editing components to afflicted cells, offering prospective remedies. Gene delivery tools significantly contribute to elucidating disease mechanisms, enhancing diagnostics and biomarker discovery, enabling targeted therapies, expediting drug development, bolstering vaccines and immunotherapy, advancing personalized medicine, and refining stem cell therapies. We extend an invitation to researchers, scientists, and engineers to share their insights and discoveries in our Special Issue on "Gene Delivery Tools for Biomedical Engineering Applications." This call for submissions aims to showcase the most recent advancements, methodologies, and applications in the domain of gene delivery.

### Guest Editors

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### Deadline for manuscript submissions

closed (30 September 2024)



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### Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

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