Special Issue

Nanodelivery and Nanodiagnostics for Nucleic Acids

Message from the Guest Editor

Nucleic-acid-based macromolecules, including plasmid DNA, messenger RNA (mRNA) and small interfering RNA (siRNA), have attracted increasing attention due to having various functional sequences with use in a wide range of applications, such as cancer therapy, infection treatment and diseases diagnosis. However, nucleic acids suffer from intrinsic limits, e.g., a negative charge hindering cellular uptake and a fragile structure prone to degradation. Currently, viral and non-viral systems are mainly used for nucleic acid delivery and detection. However, viral vectors suffer from unwanted immunogenicity and cytotoxicity. Recent advances in nanotechnology have provided solutions to such challenges by making use of these materials' controlled structures and functionalities, which provide unique advantages in achieving enhanced delivery or detection performance. This Special Issue aims to cover latest advances in the field of nanotechnology-enhanced delivery and detection of nucleic acids and to bring together multidisciplinary researchers to present their work to a broad readership.

Guest Editor

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