

Special Issue

Novel Oligonucleotide Therapeutics and Their Delivery

Message from the Guest Editors

New oligonucleotide therapeutics are becoming increasingly important. Recent approval of parenteral nanoparticle oligonucleotide formulations such as the Pfizer and Moderna COVID RNA vaccines, siRNA therapies such as, givosiran, patisiran, and aptamer therapies like pegaptanib highlight the importance and the increasing success of oligonucleotide delivery. All of these promising oligonucleotide technologies converge on an important requirement: effective drug delivery methods that can get the oligonucleotide drugs into cells and target the drug to the right tissues.

Nanoparticle delivery technology has advanced to meet some of these challenges and newer technologies are being developed that have extended half-lives, and target nanoparticles to particular tissues using “smart” materials, and chemical conjugation. This Special Issue covers the latest information on novel oligonucleotide therapeutics and their delivery. We are seeking original contributions and review articles in these areas.

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