

Special Issue

Nucleotides Delivery for Cancer Treatment

Message from the Guest Editor

The discovery of the RNA interference mechanism prompted the use of oligonucleotides as therapeutic agents for the treatment of several diseases, including cancer. Nevertheless, the peculiar physico-chemical features of the short RNA or DNA molecules and the complex physiopathology of tumour pose a hurdle to the efficacious delivery of oligonucleotides to cancer cells. To overcome these problems, scientists developed different types of carriers, such as viral vectors, exosomes, polymer- and lipid-based systems. This Special Issue aims to highlight novel approaches to the delivery of oligonucleotides to cancer, with attention to all the aspects of the nanomedicine development, from their synthesis and physico-chemical characterization, to the understanding of their biological properties and the in vivo efficacy. We are looking forward to receiving original research papers as well as review articles with expert opinion on the state of art and future perspective on the field.

Guest Editor

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