

Special Issue

Functional Nanocarrier Technology to Deliver siRNA for Cancer Therapy

Message from the Guest Editors

Nucleic acid medicines, including antisense oligonucleotides, small interfering RNA (siRNA), aptamers, and locked nucleic acids, have the potential to therapeutically regulate gene expressions. In recent years, new drugs for genetic diseases have been developed and are attracting a great deal of attention. However, these strategies are limited to treating localized diseases so far. That is why further development of drug delivery systems (DDSs) is essential for the clinical application of nucleic acid medicine to apply cancer treatment. To address this challenging issue, we focus on development of DDSs to deliver siRNA for cancer therapy, and we will clarify the usefulness of cancer treatment by target gene regulation using nucleic acid medicine designed by functional nanocarrier. This Special Issue will highlight the development of DDSs using functional nanocarriers to deliver siRNA for cancer therapy. We also expect to discuss the possibility of developing novel nanocarrier design with added value to conventional technology.

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