

Special Issue

Cancer Gene Therapy With Non-Viral Nanocarriers

Message from the Guest Editors

Conventional therapies for cancer include surgery, radiotherapy and chemotherapy but often cause severe side effects to patients due to the lack of specificity. As a result, new therapeutic treatments are needed with improved efficacy and reduced toxicity. One of these is gene therapy. The successful implementation of gene therapy needs carriers that can protect the genetic material and efficiently deliver it specifically to cancer cells. Various delivery systems have been developed and studied, including viral vectors and non-viral systems, such as lipoplexes, polyplexes and inorganic nanoparticles. Non-viral vectors present various advantages such as their safety, low cost, ability to carry larger genetic materials and be designed with specific properties.

In this Special Issue, we invite researchers to submit original research articles focusing on novel gene delivery strategies for cancer treatment using non-viral nanocarriers. Review articles on the latest advancements made in above-mentioned areas are also welcome.

Guest Editors

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Deadline for manuscript submissions

closed (31 October 2022)



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