



Gene and Cell-Based Cancer Therapies

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Message from the Guest Editors

Dear Colleagues,

Gene therapy has come a long way. In contrast, cancer gene therapy is in the works with modest success, which is primarily due to heterogeneity in the disease process. Gene therapy can be a game changer for the treatment of cancers, mainly childhood cancers in offering long-term cures. CAR-T cell therapy, which was recently approved for human use for certain blood cancers, is an extension of gene therapy involving genetic modification of patient's T-cells ex vivo to efficiently recognize and kill cancer cells when given back to the patient. There is room for improvement, and the race is on to extend its scope to solid tumors. The topics of interest for our Special Issue include but are not limited to:

- Technological advancements in vector design for cancer gene therapy
- Application of gene and cell therapy in different cancer types
- Use of gene editing technologies in cancer treatments
- Induced pluripotent stem-cell-based cancer therapies
- Tumor-specific gene targeting methods
- Immunomodulation in cancer treatments
- Cancer cell reprogramming by gene transfer





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Message from the Editor-in-Chief

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