

Special Issue

Cell-Based Drugs in Cancer Immunotherapy

Message from the Guest Editor

The development of Advanced Therapy Medicinal Products (ATMPs), particularly within the field of cellular therapies, is advancing at an astonishing rate. Cellular therapies are clearly becoming the next generation of pharmaceutical drugs and are already greatly complementing small molecules and biologicals. The first notable regulatory advance came in 2010, when Sipuleucel-T, a cell-based cancer immunotherapy, was approved by the FDA for the treatment of prostate cancer. The second major breakthrough both in a therapeutic and regulatory sense was the 2017 approval of tisagenlecleucel, a CAR-T cell therapy, for the treatment of B cell acute lymphoblastic leukemia. Since then, several ingenious approaches have been used to further advance the efficacy of cellular immunotherapy drugs by manipulating or engineering their major active substance, the living cell.

Guest Editor

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