

Special Issue

Chimeric Antigen Receptors Against Cancers and Autoimmune Diseases: 2nd Edition

Message from the Guest Editor

This Special Issue is a continuation of our previous Special Issue titled “Chimeric Antigen Receptors Against Cancers and Autoimmune Diseases” (https://www.mdpi.com/journal/ijms/special_issues/4L2B585TL0). The development of chimeric antigen receptors (CARs) has marked a new era in cancer immunotherapy. Tremendous clinical advances have been achieved via the use of CAR-T cells against a variety of cancers in both preclinical studies and in clinical trials, most notably against leukemia, lymphoma and multiple myeloma; these studies have resulted in the FDA and EMA approval of these CAR-T-cell therapies. Nevertheless, approximately 50% of patients treated with these approved CAR products experience relapses or refractory diseases that necessitate salvage strategies. Furthermore, in patients with solid tumors, CAR-T-cell infusions have not yet been able to induce complete and durable remission. Very recently, the clinical efficacy of CAR-T cells was also proven in patients with autoimmune diseases. Due to the rapid evolution of this field, the aim of this Special Issue is to focus on advancements and novel strategies regarding CARs for the therapy of cancer and autoimmune diseases.

Guest Editor

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