# **Special Issue**

# Resistance of Hematological Malignancies to CAR T Cell Therapy

### Message from the Guest Editor

Remarkable clinical responses have been observed in patients with hematological malignancies such as non-Hodgkin's lymphoma (NHL), Acute Lymphoblastic Leukemia (ALL), and Multiple Myeloma (MM) using modern immune-based approaches such as CD19CAR redirected adoptive T cell therapy (CAR T cell). Although very effective, innovative strategies are needed to improve CD19CAR T cell therapy, both in responding patients and in instances where tumors may have varying degrees of preexisting or acquired resistance to T cell-delivered apoptotic death signals. Understanding these mechanisms and obtaining strategies to render tumor cells more receptive to T cell killing could result in better response rates, reducing the intensity of the conditioning regimen or even the number of infused CAR T cells needed. This Special Issue focuses on the inherent or acquired resistance mechanisms of tumor cells which render them unresponsive to tumor-specific and highly effective CAR T cells and the design of novel strategies to render tumors sensitive to apoptotic death signals delivered by CAR T cells, thus creating a proapoptotic tumor microenvironment (immunesensitization).

### **Guest Editor**

Dr. Ali R. Jazirehi

Department of Life Sciences, Los Angeles City College, Los Angeles, CA, USA

### Deadline for manuscript submissions

closed (30 September 2024)



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Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

mdpi.com/journal/ cells





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