

Time: 2024.04.01-2024.04.06

1. **Experiment:** The introduction of the cell therapy background
2. **Time:** 2024.04.01-2024.04.06
3. **Member:** Song Zhang, Yaqi Gao, Xinyu Zhu, Xiaoyuan Chen, Yinran Luo, Hanyue Liu, Xudong Tang
4. **Result:**

Players actively learn relevant knowledge and summarize notes.

Adoptive immune cell therapy is to remove anti-cancer T cells from the patient's body, proliferate in vitro, and then inject them back into the patient's body to eliminate tumor cells. This therapy is different from conventional radiotherapy and chemotherapy, and the T cells injected into the body are highly specific for the elimination of tumor cells, which is less harmful to the body. Therefore, it has become a promising and challenging therapy at present.

Anti-CD19 CAR-T cells have made remarkable achievements in the research of hematological malignancies. In addition to CAR-T, many other immune cells such as NK cells, $\gamma\delta$ T cells and DC are also ideal choices for the treatment of tumors, and the combination of genetic modification technology has become a new direction for the research of tumor immune cell therapy.