

## **18. CAR T cell therapy for brain tumors: bench to bedside to bench**

**1 unit, Ivan Kotchetkov, February 25, 2026**

The outline is below:

- I. CAR T cell engineering overview
- II. CAR T cells and central nervous system (CNS) malignancies
- III. Adoptive T cell therapy for brain metastases
- IV. CAR T cell therapy for CNS lymphoma
- V. CAR T cell therapy for Glioma
- VI. Toxicity attributable to CAR T cells in CNS tumors
- VII. Challenges to the efficacy of CAR T cell therapy for CNS tumors
- VIII. Bench to bedside to bench translation

The paper will be:

<https://pubmed.ncbi.nlm.nih.gov/39537919/>

Intravenous and intracranial GD2-CAR T cells for H3K27M+ diffuse midline gliomas

The student who will be presenting it is welcome to reach out to me during their preparation. Partly, I want to make sure they are not intimidated by the clinical parts of the paper and spend most of their attention on the correlative immunology.