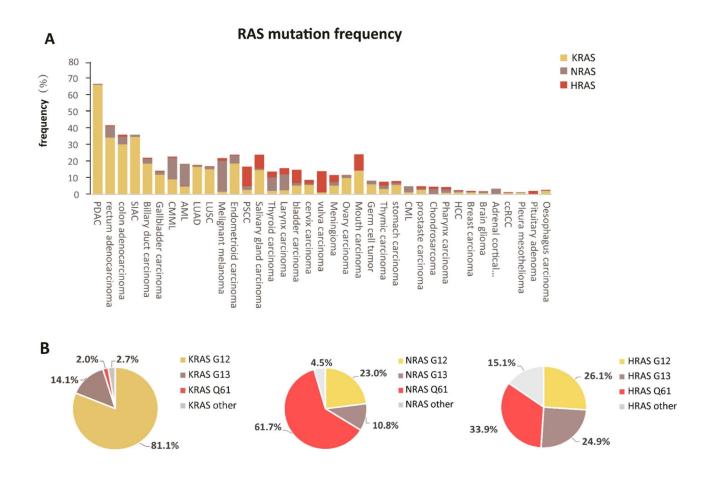
Development of CAR-T cells specifically targeting a KRAS G12V neoantigen/HLA-A*02:01 complex

医学系研究科 生命医科学専攻 個別化がん免疫治療学

Liu Meiou

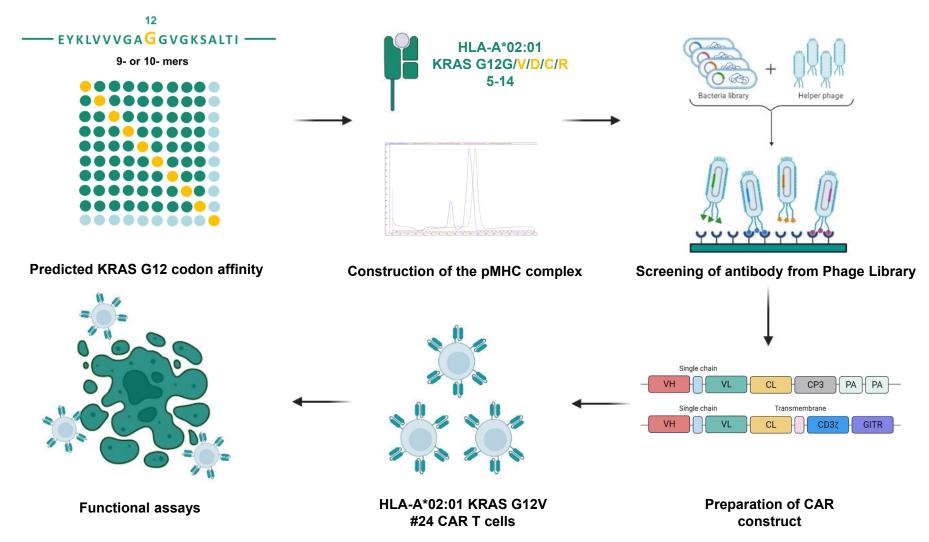
Background



Chen K, Zhang Y, Qian L, et al. Emerging strategies to target RAS signaling in human cancer therapy[J]. Journal of hematology & oncology, 2021, 14: 1-23.

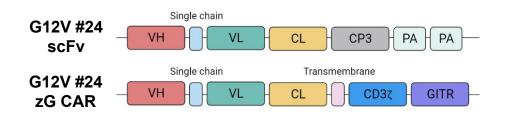
- RAS mutation have a high frequency in numerous types of human cancer.
- RAS mutations play a significant role in the tumor progression.
- Because of the lack of pockets for drug binding on the surface of RAS proteins, it is challenging to target them with conventional molecular drugs.

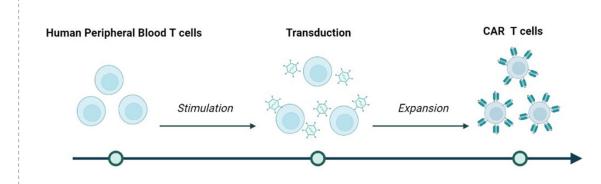
The scheme of this study



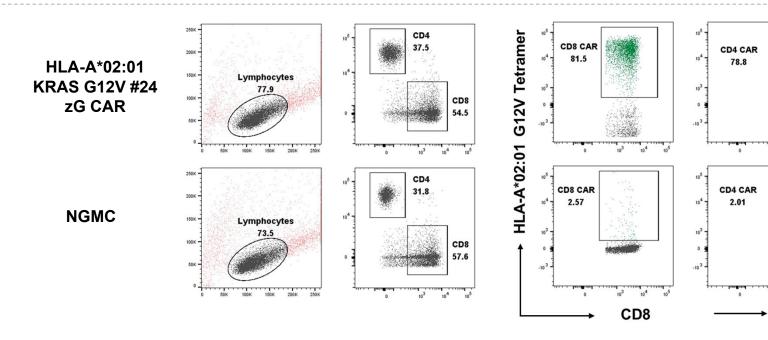
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Transduction of HLA-A*02:01 KRAS G12V #24 in Human Peripheral Blood T cells





CD4



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Thank you