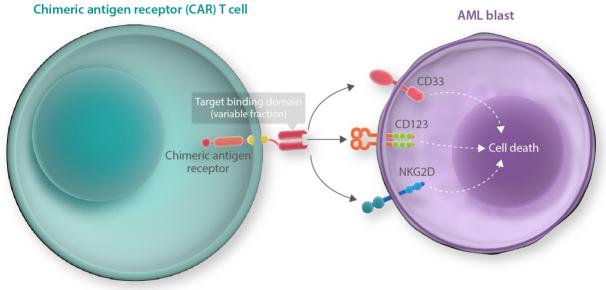
Potential targets for CAR-T therapy in acute myeloid leukemia (AML)



Advantages

- CD33 Ubiquitous on AML blasts
- CD123 Ubiquitous on AML blasts

NKG2D ligand

- Expressed on malignant cells
- Role in stimulating anti-tumor immunity
- Limited expression on healthy tissues

Disadvantages

- Present on normal HSPC → hematopoietic toxicity
- Limited published data
- Present on normal HSPC → hematopoietic toxicity
- Require a rescue allogeneic stem cell transplant (alloHSCT)
- Present on the endothelium of small-calibre blood vessels → vascular leak
- Many different types of cellular stress can upregulate NKG2D ligands on normal tissues → reduced specificity of NKG2D-CARs for malignant tissues

Cummins and Gill. Haematologica, 2019