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(54) Title: BOOSTING CHIMERIC ANTIGEN RECEPTOR CELLS IN THE BLOOD

(57) Abstract: The present disclosure provides modified cell(s), i.e., immune cell(s) or precursor cell(s) thereof, wherein the cell(s) are engineered to express: (a) a first chimeric antigen receptor (CAR) having affinity for CD19, and (b) a second CAR having affinity for a tumor antigen, wherein the tumor antigen is not CD19. Also provided are methods and uses of the modified cells, *e.g.*, for treating at least one sign and/or symptom of cancer in a subject. The modified cells expand in the peripheral blood of the subject. Related nucleic acids, vectors, and pharmaceutical compositions are also provided.

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