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(54) Title: MODULATION OF BCL-2 TO ENHANCE CHIMERIC ANTIGEN RECEPTOR CANCER IMMUNOTHERAPY EFFICACY

(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 chimeric antigen receptor (CAR), and b) a variant of a B-cell lymphoma 2 (Bcl-2) family protein, wherein the variant confers resistance to a cytotoxic inhibitor of the Bcl-2 family protein. Also provided are methods and uses of the modified cells, e.g., for treating at least one sign and/or symptom of cancer. Related nucleic acids, vectors, and pharmaceutical compositions are also provided.

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