Gene Targets For Gamma-Delta T Cell Cytotoxicity Against Tumor Cells

Tech ID: 33262 / UC Case 2020-154-0

TECHNOLOGY DESCRIPTION

Using a genome-wide knockout screen in target tumor cells, UCSF Investigators have identified cellular factors that influence gamma-delta T cell cytotoxicity against target cells, and developed methods for modulating expression of these factors. One of the top genetic hits is of particular importance since it is a cell surface protein that has not been previously implicated in this interaction. These methods have great therapeutic potential and may lead to treatments for a variety of diseases, including cancer, autoimmune diseases, bone disorders, metabolic disorders, and infectious diseases.

PATENT STATUS

Patent Pending

RELATED MATERIALS

- Genome-wide CRISPR screens reveal metabolic and transcriptional regulation of BTN3A and cancer susceptibility to V?9Vd2 T cell targeting - 05/01/2022

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OTHER INFORMATION

CATEGORIZED AS

- Medical
  - Disease: Autoimmune and Inflammation
  - Disease: Cancer
  - Gene Therapy
  - Therapeutics

RELATED CASES

2020-154-0

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