Gene Targets For Manipulating T Cell Behavior

Tech ID: 33261 / UC Case 2020-043-0

TECHNOLOGY DESCRIPTION

By performing non-viral pooled knock-in screens, UCSF investigators have discovered novel genes that improve T cell functionality across a variety of in vitro assays. This invention includes novel compositions and methods for modifying the genome of a T cell to alter its specific and functionality, while limiting the side effects associated with T cell therapies.

Technology Advantages:

▶ Identifies novel gene targets
▶ Potential to enhance therapeutic potency of T cells for cancer and autoimmune applications

PATENT STATUS

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<td>Published Application</td>
<td>2023-544161</td>
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Additional Patents Pending

OTHER INFORMATION

KEYWORDS

T cell therapy, Cancer, Immunotherapy

CATEGORIZED AS

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

RELATED CASES

2020-043-0, 2020-203-0, 2022-030-0, 2023-035-0