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

Country	Type	Number	Dated	Case
Japan	Published Application	2023-544161	11/30/2023	2020-203

Additional Patents Pending

CONTACT

Gemma E. Rooney

Gemma.Rooney@ucsf.edu

tel: 415-625-9093.

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

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