

CIRM Funded Clinical Trials

**A monoclonal antibody that depletes blood stem cells and enables chemotherapy free transplants**

<b>Disease Area:</b>	Severe Combined Immunodeficiency, X-linked (X-SCID)
<b>Trial Sponsor:</b>	Stanford University and Jasper Therapeutics, Inc.
<b>Trial Stage:</b>	Phase 1/2
<b>Trial Status:</b>	Recruiting
<b>Targeted Enrollment:</b>	40
<b>ClinicalTrials.gov ID:</b>	NCT02963064



Judith Shizuru

**CIRM Awards Funding This Trial**

<b>Investigator:</b>	Judith Shizuru
<b>Institution:</b>	Stanford University
<b>CIRM Grant:</b>	DR2A-05365 (Closed)
<b>Award Value:</b>	\$18,990,683
<b>Investigator:</b>	Judith Shizuru
<b>Institution:</b>	Stanford University
<b>CIRM Grant:</b>	CLIN2-11431-A
<b>Award Value:</b>	\$1,113,487

**Details:**

This trial proposes to replace SCID patients' dysfunctional immune cells with healthy ones using a safer form of bone marrow transplant (BMT). Current BMT procedures must use toxic chemotherapy to make space in the bone marrow for the healthy transplanted stem cells to engraft. The Stanford team will instead test a safe, non-toxic protein called a monoclonal antibody that targets and removes the defective blood forming stem cells. The hope is that this treatment will promote the engraftment of the transplanted stem cells in the patient. If successful, the procedure could open up similar BMT therapies to patients with other auto-immune diseases such as multiple sclerosis, lupus or diabetes that are generally not candidates for BMT currently.

**Design:**

Open label, dose escalation trial.

**Goal:**

Safety, Dosing, Efficacy - hematopoietic stem cell engraftment, immune reconstitution.

**Updates:**

Enrolling.

**News about this clinical trial:**

Using antibody in treatment of 'bubble boy disease' shows early promise

Contact Trial Sponsor

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**Source URL:** <https://www.cirm.ca.gov/clinical-trial/monoclonal-antibody-depletes-blood-stem-cells-and-enables-chemotherapy-free>