

In Vivo Lymphocyte Homing in Mice
IACUC Standard Procedure
Effective Date: August 2022

Description of procedure:

Donor mice will be euthanized per the [UCSF Euthanasia Guidelines](#) and lymphoid organs will be harvested to prepare leukocytes for injection into recipients of the same genetic background. These leukocytes may be labeled with a non-toxic fluorescent dye for tracking purposes. Recipient mice will be kept warm to facilitate vasodilation and restrained briefly in a mouse restrainer. Optionally, at time 0, antibody or other test compounds in sterile saline may be injected IV into the tail vein per the [UCSF Tail Vein Injection procedure](#). After a defined period (e.g. 1 hour to 1 day), the mouse is injected by IV into the tail vein with the desired number of leukocytes (typically between 10^6 and 10^7) from the donor mice in sterile saline. Alternatively recipient mice are anesthetized and cells transferred by [Retro Orbital Injection](#). The mouse is returned to the cage. Endpoints for experiments are varied (minutes to days) and the timeline will be specified in the individual protocol.

Agents:

This procedure requires fluorescent dye, test compound, and sterile saline. All agents administered to animals should be listed in the "Agents" section of the RIO IACUC protocol.

Adverse Effects:

Adverse effects should be listed in the "Adverse Effects" section of the RIO IACUC protocol.

Examples of potential adverse effects include: Reaction to agent including lethargy and labored breathing