

OLAC Resources: Imaging Rodents and transgenic production

- Biological Irradiator, IVIS, MRI, CT scan & Ultrasound
- Production of transgenic mice core
- Contacts added 8/18/2022
- OLAC office to add access to lab members card key, after special training and by request.
 - [SUPPLEMENTAL CARD KEY FORM FOR RESTRICTED ACCESS AREAS](#)

Equipment Contacts & Locations:

[X-Rad 320 Biological Irradiator access. Weill Hall](#) - LKS B140

IVIS (Fluorescence): The IVIS imaging machine is in **LKS B138.E**

8/17/22 per Dr.G: Denise Schechne - equipment facilitator

schechne@berkeley.edu

<https://microscopy.berkeley.edu/ivis-2/>

8/4/21: IVIS Training with Steven Ruzin: ruzin@berkeley.edu

- OLAC office to add access to the IVIS room (LKS.B.138.E) to card key

MRI - EchoMRI machine: The mouse MRI is in the first anteroom going into **LKS B142.A**

Rodent MRI contact - Mike Wendland mwendland@berkeley.edu

BIC - (Brain Imaging Center, LKS) for Non-human primates only - Ben Inglis

binglis@berkeley.edu

CT - Computerized tomography (CT) or computerized axial tomography (CAT) scan - **LKS B142.A**

4/19/22, per Dr.JF: contact Mike Wendland (mwendland@berkeley.edu) as he runs that area to inquire about using the rodent CT.

LKS.B.142.B - mouse housing for imaging studies in LKS B142.A

Ultrasound - Vet Clinic, NAF113. Contact Vet Staff - olac_vetstaff@berkeley.edu

Production of transgenic mice core: 415 Weill Hall

- **UCB Transgenic core director:** Angus Lee ayflee@berkeley.edu

Faculty director - Russell Vance rvance@berkeley.edu

- **UC Davis** Mouse Biology Program - https://mbp.mousebiology.org/services_products/
https://mbp.mousebiology.org/services_products/mouse-models/

- **UCSF** - <https://cores.ucsf.edu/transgenic-mouse-model-generation.html>

- Jackson Labs services

- <https://www.jax.org/research-and-faculty/resources>

- [Genetic Resource Science](#)

- <https://www.jax.org/jax-mice-and-services/custom-model-generation> (KO and genetic editing)

JAX Genetic Resource Science initiates and develops resource-generating research. Our team: identifies and implements innovative technologies for genetic research; makes and distributes



new mouse models; and provides extensive genetic and phenotypic information on JAX mouse strains.

- <https://www.taconic.com/genetically-engineered-animal-models/crispr-gene-editing/>

- Charles River services

<https://www.criver.com/products-services/research-models-services/genetically-engineered-model-services/transgenic-mouse-rat-model-creation/crisprcas9-genome-editing?region=3701>

- Envigo services

<https://www.envigo.com/genetically-engineered-models-and-services>

- [Cyagen Biosciences](#)

Cyagen makes the mice in China, and then uses Santa Clara as a stop over in the direct ship to the US customer to get through customs.

Gene editing core? - UCB does not currently have a core lab

- UC Davis Mouse Biology Program - https://mbp.mousebiology.org/services_products/

- https://mbp.mousebiology.org/services_products/molecular-biology/

Precision X-Rad 320 Biological Irradiator, in Weill Hall for mice

x-ray irradiation

Fri, May 20, 2022

Jacob M. Terry

Barton Lab Manager

University of California, Berkeley

Weill Hall, #3200, Berkeley CA

Please note that the Radiation Use Authorization (RUA) personnel addition request will only be approved if all of the listed steps have been completed

- 1) Contact Jacob Terry <jmterry@berkeley.edu>, who will direct the researcher to be added to the Barton lab's RUA.
- 2) Complete EHS 401.2 on the UC Learning Center website, if not completed already.
- 3) Researchers must complete and submit a [Radiation User Information Record](#).
- 4) Complete a [Dosimetry Issuance and Information form](#) and contact the Campus Dosimetry Coordinator (jhendricks@berkeley.edu) to receive their dosimetry.
<https://ehs.berkeley.edu/safety-subjects/radiation-safety/radiation-users#dosimetry>
- 5) Once steps 2, 3, & 4 are completed, the researcher should again email Jacob Terry <jmterry@berkeley.edu> to make an in-person irradiator orientation appointment. After orientation, Jacob will submit a request to Radiation Safety to have them added to the RUA.
- 6) After all of the above has been completed and the researcher receives their dosimeter, they should email Jacob photos of the front and back of their Cal ID card; that way, he can send their credentials to those responsible for controlling irradiator door access.