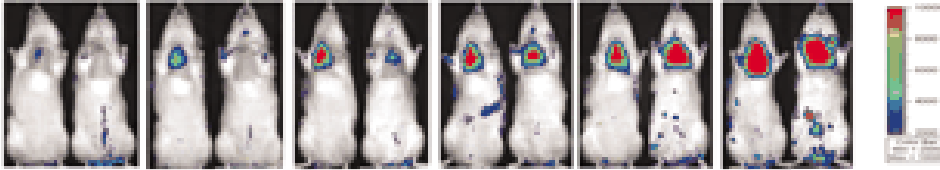


# LABioMed

## IVIS-100 Bioluminescence Machine

### RB-2 Annex



### Description

The LABioMed IVIS -100 is a highly sensitive imaging system that equips investigators with the capability to perform cellular and molecular non-invasive in-vivo bioluminescent imaging. Imaging capabilities include detection and quantification of various bioluminescent reporter-expressing cells or tissues in culture or in small animals.

### Instructions

Investigators who wish to use the IVIS -100 must:

- 1 – Complete applicable animal use training.
- 2- Receive IACUC approval for the protocol. Only staff whom are listed on the animal protocol may handle animals during an imaging session.
- 3- Complete IVIS training. Those who have not been trained on the use of the machine will be required to have an authorized assistant use the machine for them.

Documents Required Prior to Using the IVIS-100:

- 1- Copy of the animal protocol
- 2- Any amendments
- 3- Approval Letter

Please note that investigators must get the IACUC's permission to:

- 1- Perform optical imaging
- 2- Transport animals between housing facility and the imaging facility.

### Contact

Please contact Ext. 3791 to schedule training for the machine or to schedule a session to use the machine.

### Resources

See the Xenogen List of Light Producing Animal Models at:

<http://www.xenogen.com/wt/page/lpta>

See the Xenogen List of Reagents at <http://www.xenogen.com/wt/page/biology>

Picture is from the following article:

Real-Time In Vivo Bioluminescent Imaging for Evaluating the Efficacy of Antibiotics in a Rat Staphylococcus aureus Endocarditis Model -- Xiong et al. 49 (1): 380 -- Antimicrobial Agents and Chemotherapy

<http://aac.asm.org/cgi/content/full/49/1/380>

### **SOP's**

No radioactivity is allowed during an imaging session.

Animals may not remain at the imaging facility once an imaging session is completed.

Users should wear a lab coat or a disposable gown during the imaging session.

Users should wear gloves when touching the animals, cages, and IVIS image chamber.

Users should take off gloves when touching the IVIS computer keyboard, computer mouse, pen, usage log book, etc.

Users should wear a pair of new gloves to clean the imaging system once the imaging session is completed. Users will be charged a maintenance fee if the core facility staff are required to clean the machine after they have used it. All users must clean the imaging system following the "Routine Cleaning and Sterilization Protocol Between Users".

The same syringe should not be used to inject more than one animal.

Syringes should not be re-inserted into ampules or vials once they have been used for animal injection.

All users must use their individual password each time they use the system Passwords are available to individuals who complete training on the machine. Please email

[jdedes@labiomed.org](mailto:jdedes@labiomed.org) for password.

### **Assistance available per user request:**

- (1) Rodent anesthesia
- (2) Substrate injection
- (3) Animal shaving
- (4) Living image acquisition
- (5) Data quantification and analysis
- (6) Transferring Living Image® data to other file formats

(7) General advice on experimental design or protocol plans

Please contact Dr. Yan Xiong at [yxiong@ucla.edu](mailto:yxiong@ucla.edu) if any questions.

**Rates**

	Assisted	Unassisted	Extramural Users
First Use / Training (Assisted Only)	\$80/hour	N/A	\$120
Weekdays	\$80/hour	\$50/hour	\$120/hour
Weekends	\$150/hour	\$50/hour	

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