

Add additional rows as needed.

See <https://www.mbl.edu/services/iacuc/> for examples of how to fill in the tables

Table 1. Pre-procedure medications (sedative, analgesic, anti-inflammatory drug, etc.)

Procedure	Species	Medication (include dosage)	Route (topical, inhale, SQ, IP, IM IV)	Frequency & Duration
<i>Cranial implant surgery</i>	<i>Mus musculus</i>	<i>Ketamine 100 mg/kg + xylazine 10 mg/kg</i>	<i>IP</i>	<i>Once/<1 minute</i>

Table 2. Procedural/ intra-procedural medications (anesthesia, paralytic, analgesia, etc.)

Procedure	Species	Medication (include dosage)	Route (topical, inhale, SQ, IP, IM IV)	Frequency & Duration of Procedure**
<i>Cranial implant surgery</i>	<i>Mus musculus</i>	<i>Isoflurane</i>	<i>Inhalant</i>	<i>Continuous/1 hour</i>
<i>Egg stripping</i>	<i>Prionotus carolinus</i>	<i>MS-222 150 mg/L</i>	<i>Immersion</i>	<i>Continuous/10-15 minutes</i>

**Provide details of how anesthesia will be monitored in the main text.

Table 3. Post-procedural medications (sedative, analgesic, anti-inflammatory drug, antibiotics, etc.)

Procedure	Species	Medication (include dosage)	Route (topical, inhale, SQ, IP, IM IV)	Frequency
Cranial implant surgery	<i>Mus musculus</i>	Carprofen 5 mg/kg Buprenorphine 0.1 mg/kg	SQ SQ	Every 24 hrs for up to 3 days Every 8-12 hrs as needed
Abdominal electrode implant surgery	<i>Opsanus tau</i>	Carprofen 5 mg/kg	IM dorsal muscle	Every 24 hrs for up to 3 days

Table 4. Non-surgical Procedures (Injections, inoculations, tail biopsies, blood collection, toe/ear clipping, web punches, etc.)

Procedure	Species	Medication (include dosage)	Route (topical, inhale, SQ, IP, IM IV)	Frequency & Duration of Procedure
Inoculation of fungal spores under anesthesia	<i>Mus musculus</i>	Fungal spores 30 microliters	Intranasal	Once/<1 minute
Web punch for genotyping	<i>Xenopus laevis</i>	None	N/A	Once/ 30 seconds
Hormone priming	<i>Prionotus carolinus</i>	LHRH 25 mcg/kg	IM dorsal muscle	Once/<1 minute

Table 5. Euthanasia (include description of euthanasia and method of disposal in text)

Method (e.g. anesthetic overdose, decapitation, etc.)	Species	Medication (include dosage)	Route (topical, inhale, SQ, IP, IM IV)	Duration	Secondary method, Instrument (include descriptor)
<i>Anesthetic overdose</i>	<i>Mus musculus</i>	<i>Isoflurane</i>	<i>Inhalant (bell jar)</i>	<i>1 minutes past cessation of respiration and lack of response to toe pinch</i>	<i>Cervical dislocation</i>
<i>Anesthetic overdose</i>	<i>Danio rerio</i>	<i>MS-222 (300mg/L)</i>	<i>Immersion</i>	<i>10 minutes past cessation of opercular movement</i>	<i>Decapitation with 4in sharp scissors</i>

6. Personnel Details: Please fill out the table below for each individual named on the protocol describing their experience in the named procedure. Please reference procedures to those defined above, including animal transfer from facilities to lab, health monitoring, and any animal handling including behavioral and non-invasive procedures.

For any personnel who has not been trained or needs additional training, and before beginning animal handling or procedures, contact the appropriate Facilities Manager (i.e. ACF, MRC, NXR) and MBL veterinarian.

Name	Species	Procedure	Years/Months of experience	Description of experience
Jane Smith	<i>Mus musculus</i>	Animal Handling	2 years	Is proficient in all necessary animal handling and restraint related to all procedures.
Jane Smith	<i>Mus musculus</i>	Cranial Implant Surgery	2 years	Has performed cranial implants , of the same type, in the PI's lab.
Jane Smith	<i>Mus musculus</i>	IP and SQ injections Use of anesthesia machine.	2 years	Is proficient in all administration of medications and anesthesia related to the procedures.
John Smith	<i>Mus musculus</i>	Animal Handling. Transfers from ACF to Lab.	1 year	Is proficient in non-invasive animal handling from graduate studies labs.
Peter Johnson	<i>Mus musculus</i>	Animal handling and euthanasia	None	Will be trained on site by PI. Vet will be informed once training is complete.