

## Protocols Involving Field Research

A. There are several sections of the form that pertain specifically to field research or courses that include field research or field trips:

- [Species](#)
  - List the taxa that you will be working with
- [Are You Using?](#)
  - Course information for teaching protocols
  - Personnel safety and permit information for field research
- [Procedures](#)
  - Field studies
  - Animal Identification
  - Other procedures conducted in the field
- [Husbandry](#)
  - Transportation of live or dead animals to or from the field.
  - Non-standard housing requirements, non-standard husbandry or care, non-standard experimental requirements, and prolonged restraint.
- [Animal Disposition](#)
  - Euthanasia
  - Carcass disposal

### 1) Species

- a. All species should be listed, however, this can be challenging for field researchers working with many species. Since procedures are added *by species*, it may make more sense for the PI to use a higher taxa to describe the animals in this section, and attach a list of species and/or genus in the attachment section. For example, you can use the species designation “Other(birds)” and for the Genus & Species information, indicated “See attached list”. **However, there are several restrictions to this option, as described below in b-e.**

Note: \* denotes mandatory field.

**Species to be Used** Save | Cancel

Common Name \*

Genus & Species

[Strain\(s\) or Breed\(s\)](#)

Animal Sex \*

Source \*  Field  
 OLAC Approved Vendors  
 Other (Describe)  
 PI Breeding Colony  
 UCB Collaborator

Proposed Housing Location \*

Building Name

Room Number

Maximum number of animals for three year project period \*

Note: If breeding animals, the maximum number should include breeders plus all offspring produced.

- b. The procedure description for the taxa used in the species section should be identical. For example, if “Other(Fish)” is used for the species, all of the procedures that are designated for “Other(Fish)” should be identical.
- c. If a procedure(s) will be unique to one taxa, that taxa should be listed separately. For example, if a particular procedure is performed on only a certain genus/species of bird, that genus/species should be spelled out the species section.
- d. If you are working with **USDA-covered species**, each target genus and species must be listed for reporting purposes.
- e. If you will be housing **California Fish & Wildlife Restricted Species** in a UC Berkeley facility, each genus and species must be listed for reporting purposes.
- f. If you do not plan to house the animals, the Proposed Housing Location for field studies can be: Other, NA; Building Name: Other, NA; Room Number: NA.

Proposed Housing Location *	Other
	NA
Building Name	Other
	NA
Room Number	NA

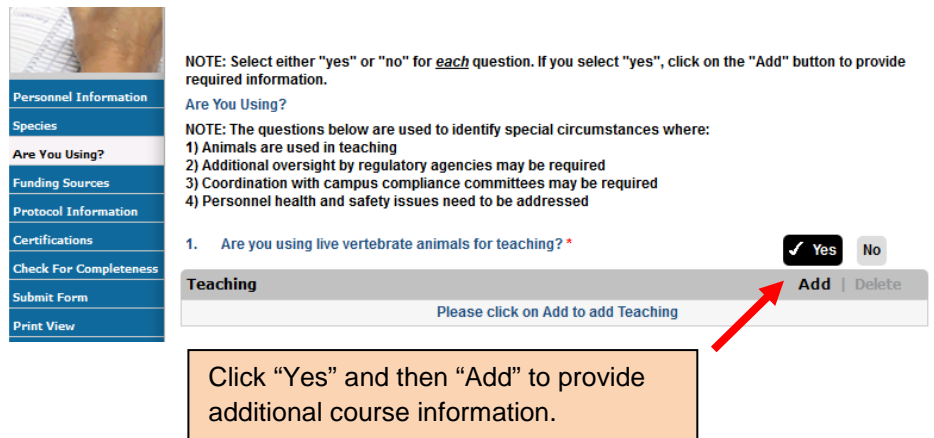
- g. If you plan to house animals for less than 12 hours, you can indicate Proposed Housing Location: Other, Not housed > 12 hours (or “housed < 12 hours”) ; Building: Other, NA; Room: NA.

Proposed Housing Location *	Other
	not housed > 12 hours
Building Name	Other
	NA
Room Number	NA

- h. You will describe housing of captive wild animals in the Procedure section of the protocol.

## 2) Are You Using?

- a. **Teaching** - If you will be teaching a course that will conduct field research or participate in field trips that involve manipulating vertebrate animals or altering their natural habitat or behavior, check “Yes” to the first question, “Are you using live vertebrate animals in teaching?”



Personnel Information  
Species  
Are You Using?  
Funding Sources  
Protocol Information  
Certifications  
Check For Completeness  
Submit Form  
Print View

NOTE: Select either "yes" or "no" for each question. If you select "yes", click on the "Add" button to provide required information.

Are You Using?

NOTE: The questions below are used to identify special circumstances where:  
1) Animals are used in teaching  
2) Additional oversight by regulatory agencies may be required  
3) Coordination with campus compliance committees may be required  
4) Personnel health and safety issues need to be addressed

1. Are you using live vertebrate animals for teaching? \*

Yes  No

**Teaching** Add | Delete

Please click on Add to add Teaching

Click “Yes” and then “Add” to provide additional course information.

- i. Click on the “Add” link to answer specific questions regarding the course. You should submit a separate protocol for each separate course.

Note: \* denotes mandatory field.

**Teaching** Save | Cancel

Title and Course Number (e.g., BIOL 101) \*

Semester(s) Offered:

Teaching Format (Check all that apply): \*

Classroom Demonstration  
 Supervised Laboratory  
 Field Trip  
 Individual Research Project (e.g., 199,299)  
 Other (please describe)

Course Description

i. Educational Goal(s) of the course

ii. Student Characteristics

- b. **Field Study** - At the bottom of the “Are You Using?” section, check “Yes” to “Field Study or Wildlife Study”.

Click “Yes” and then “Add” to provide additional information.

5. Field Study or Wildlife Study \*

Yes  No

NOTE: Additional procedure-based information for field studies is requested under the [Protocol Information](#) section of the Protocol.

**Health Precautions for Personnel** Add

Please click on Add to add Health Precautions for Personnel

**Permit Information** Add | Delete

Please click on Add to add Permit Information

Previous Next

Save | Spell Check | Help | Close

- i. Click on the “Add” link to provide information regarding **Health Precautions for Personnel**.

Note: \* denotes mandatory field.

**Health Precautions for Personnel** Save | Cancel

Do any of the species that you will be studying carry zoonotic diseases (e.g., rabies, hantavirus, bird flu)? \*  Yes  No

If yes, describe

List the precautions taken to protect personnel, including personnel protective equipment. \*

Have you completed a Field Research Safety Plan and shared it with all members of the field research team? \*  Yes  No

Please attach a copy of the Field Research Safety Plan in the [attachment](#) section of the Protocol. Refer to the [EH&S web site](#) for guidance

- ii. Click on the “Add” link to provide information regarding **Permit Information**.

Note: \* denotes mandatory field.

**Permit Information** Save | Cancel

Are state, federal or local permit(s) required? \*  Yes  No

If yes, list the permits acquired \*

Name of the permit holder(s)

Which species or circumstances require permit(s)

Are any species involved in this research under endangered or protected categories (State, Federal or IUCN listed species)? \*  Yes  No

If yes, explain why this species must be used for research \*

If voucher specimens are collected, list the institution(s) where they will be deposited.

### 3) Procedures

- a. In the **Protocol Information** section of the form, add a **Procedure** and select the **Field Studies** Procedure Type and taxa involved. You will have to add a separate field study for each taxa, but once you create one, you can clone it for the other taxa.

• Add a Procedure.  
• Select **Field Study** for Procedure Type  
• Complete all **Procedure Details** tabs.

- b. Complete the questions on the **Field Studies** tab under Procedure Details

- i. **Location** - Describe the location of your study area(s) as specifically as possible.
- ii. **Capture** - Describe wildlife capture (live capture or kill trapping), including: time of day traps will be set and disarmed, equipment used, planned duration of trapping/restraint, monitoring schedule for traps, how animals will be protected from the elements or predators, and potential for trapping non-target species. If **anesthesia** will be used, please note that here, and complete the **Anesthetic Regimen** tab.

- iii. **Monitoring** - Describe the frequency and parameters (e.g., temperature, pulse rate, respiration rate, and capillary refill time) that will be monitored to ensure the health of captured animals. Provide a plan for addressing physiological parameters outside of normal ranges.
- iv. **Restraint** - Describe physical restraint and handling procedures following capture, including methods, equipment, duration, and observation schedule. If animals will be restrained longer than 1 hour, complete the **Prolonged Restraint** question under the **Husbandry** section of the protocol. For guidance, please refer to [the ACUC Guideline on Physical Restraint of Un-anesthetized Animals](#).

v. **Housing of Captive Wild Animals**

Note: For guidance, please refer to the [ACUC Fasting Animals, Special/Regulated Diets/Water/Housing Policy](#), [Quarantine Guidelines](#), and [Guidance on Exceptions Regarding Housing or Husbandry of Laboratory Animals](#).

a) Will captive animals be held for 12 hours or less?

If yes, please describe the planned duration of captivity, the temporary holding facilities, cage size/type, feeding strategies, plan for maintaining a suitable environment, and release procedures. If possible, attach a photograph, drawing or illustration of the holding facility in the Attachments section of the protocol.

b) Will captive animals be housed for more than 12 hours?

If yes, please describe the planned duration of housing and, if applicable, the duration of quarantine and plan for acclimatization. If **non-standard housing or husbandry practices** will be used, please describe these in the **Husbandry** section of the protocol.

- vi. **Decontamination** - Describe decontamination procedures for any equipment that will be used to capture, transport, contain, etc. animals.
  - vii. **Recapture** - If animals will be recaptured, please describe and include the maximum number of times an animal would be recaptured.
  - viii. **Release, Euthanasia, Other Disposition** - If animals will be released, describe pre-release conditioning, the site and time of release, and any permits required for such release. Describe **euthanasia** methods under the **Animal Disposition** section of the protocol. Note: Even if euthanasia is not planned, a method must be described in the event of an emergency.
- c. The **Procedure Description** tab is used to provide an overview of the Field Study procedure. If you will be performing additional procedures not described in i-viii above, (e.g., animal identification/marketing, blood collection, tissue collection, surgery), you should **add these as separate procedures for each taxa**.
  - d. If you will be performing anesthesia in the field for anything described in i-viii above, complete the **Anesthetic Regimen** tab.
  - e. If you provide **Peri-procedure Care and/or Analgesics**, complete this tab.

- f. If you administer any other compounds not described in the previous tabs, complete the **Other Drugs Utilized** tab.

#### 4) Husbandry

- a. **Transportation** - If animals (live or dead) will be transported to or from the field, describe how they will be transported and measures to be taken to avoid potential disease transmission to researchers and other animals. Transportation of animals must conform to the [ACUC Animal Transportation Guidelines](#). If not transporting, check “None”.

IACUC - Animal Use Protocol Protocol ID: AUP-2014-08-6582 (Jennifer Lee)  
 Protocol Title: Type Study Title Here... Save | Spell Check | Help | Close

Previous Next

Rationale Procedures Alternativ... Procedure ... Husbandry Animal Dis... Attachments

Personnel Information Species Are You Using? Funding Sources Protocol Information Rationale Procedures Alternative Search Procedure Relationships Husbandry Animal Disposition Attachments Certifications Check For Completeness Submit Form Print View Event History Email History

Animal Transportation  None Save

If animals will be transported between facilities, laboratories or institutions (e.g., hand carried, vehicular, etc.), describe the methods and containment measures to be utilized. Transportation of animals must conform to the ACUC [Animal Transportation Guidelines](#).

FIELD STUDIES: If animals (live or dead) will be transported to or from the field, describe how they will be transported and measures to be taken to avoid potential disease transmission to researchers and other animals. Transportation of animals must conform to the ACUC [Animal Transportation Guidelines](#).

Non-Standard Housing Requirements  None Save

Please check and describe all non-standard housing requirements that apply. Provide justification for each. For guidance, please refer to ACUC's [Guidance on Exceptions Regarding Housing or Husbandry of Laboratory Animals, Aquatic Frog Housing Density, Guidelines for Investigators Who Manage Mouse Breeding Programs, and Rat Housing Guidelines](#).

Species	Cage/Pen Size	Cage sanitation interval	Wire-bottom rodent cages or grids	Animals outside dedicated animal housing for greater than 12 hours	Exemption from exercise (dogs only)
Mouse, Laboratory (OLAC Vivarium)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rat, Laboratory (OLAC Vivarium)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### b. Non-Standard Housing Requirements

- i. If captive wild animals will be housed for greater than 12 hours, check the “Animals outside dedicated animal housing for greater than 12 hours” box and describe.
- ii. If the cage/pen size or cage sanitation interval is non-standard, check these boxes and provide justification.
- iii. If rodents will housed on wire-bottom cages, check this box and provide justification.

iv. For guidance on standards, see the following ACUC Guidelines:

- [Guidance on Exceptions Regarding Housing or Husbandry of Laboratory Animals](#)
- [Aquatic Frog Housing Density Guidelines](#)
- [Investigators who Manage Mouse Breeding Programs](#)
- [Rat Housing Guidelines](#)
- [Investigator Care of Vertebrate Animals](#)

c. **Non-Standard Husbandry or Care**

i. Check all that apply, describe and provide justification. If none apply, check “None”

ii. Describe which species are affected.

iii. For guidance on standard practices, see the ACUC Guidelines:

- [Guidance on Exceptions Regarding Housing or Husbandry of Laboratory Animals](#)
- [Fasting Animals, Special/Regulated Diets/Water/Housing Policy](#)

Non-Standard Husbandry or Care  None Save

Please check and describe any non-standard environmental requirements, diets, husbandry equipment or animal care. Include which species are affected. For guidance, please refer to ACUC's [Guidance on Exceptions Regarding Housing or Husbandry of Laboratory Animals](#) and [Fasting Animals, Special/Regulated Diets/Water/Housing Policy](#).

<input type="checkbox"/> Investigator Care of Animals (describe below and provide justification). For guidance, please refer to the ACUC Guidelines on <a href="#">Investigator Care of Vertebrate Animals</a> .	
<input type="checkbox"/> Non-Standard Lighting Cycles, e.g., greater than twelve-hour light or dark cycles (describe below and provide justification).	
<input type="checkbox"/> Non-Standard Housing Temperature Ranges (describe below and provide justification).	
<input type="checkbox"/> Non-Standard Diets (describe below and provide justification). For guidance, please refer to the ACUC <a href="#">Fasting Animals, Special/Regulated Diets/Water/Housing Policy</a> .	
<input type="checkbox"/> Telemetry or Tether Devices (describe below and provide justification).	
<input type="checkbox"/> Running Wheels (describe below and provide justification).	
<input type="checkbox"/> Individually Housed (describe below and provide justification).	
<input type="checkbox"/> Exemption from Standard Enrichment (describe below and provide justification). For guidance, please refer to the ACUC <a href="#">Environmental Enrichment Guidelines</a> .	
<input type="checkbox"/> Other - Please describe and provide justification.	



**d. Non-Standard Experimental Requirements**

- i. If you will be restricting food or fluid, check all that apply, describe and provide justification. If none apply, check "None".
- ii. For guidance, please refer to the ACUC [Fasting Animals, Special/Regulated Diets/Water/Housing Policy](#).

Non-standard Experimental Requirements

Food or Fluid restriction  None Save

Complete all section below that apply. For guidance, please refer to the ACUC [Fasting Animals, Special/Regulated Diets/Water/Housing Policy](#).

Species	Food Restriction	Length of Restriction	Fluid Restriction	Length of Restriction	Reason for Restriction
Mouse, Laboratory (OLAC Vivarium)	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
Rat, Laboratory (OLAC Vivarium)	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
Other(Frog) (both lab and field)	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
Other(Fish) (not housed; studied in the field)	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>

**e. Restraint of Conscience Animals**

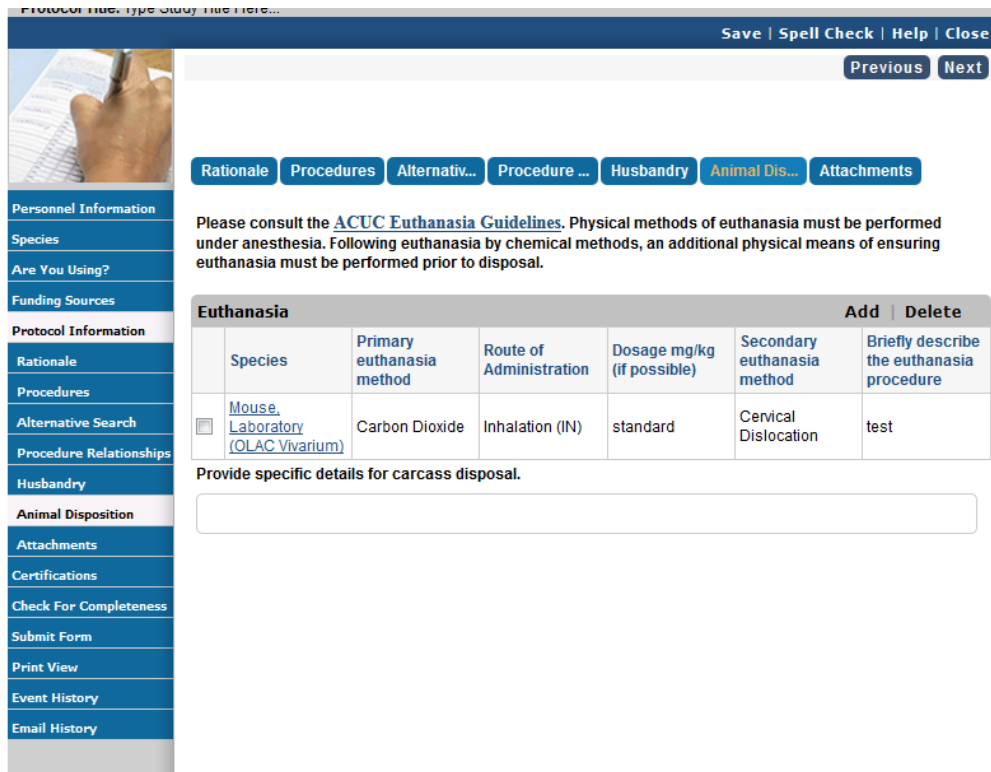
- i. If you will be restraining animals, complete this section.
- ii. For guidance, please refer to the ACUC guidelines on [Physical Restraint of Unanesthetized Animals](#).

**5) Animal Disposition**

- a. Even if you plan to release animals and not euthanize them, you must provide a method of euthanasia that will be used in case of injury to the animal.
- b. Add a method of euthanasia for each taxa listed in the species section of the protocol.
- c. Please consult the [ACUC Euthanasia Guidelines](#). Physical methods of euthanasia must be performed under anesthesia. Following euthanasia by chemical methods, an

additional physical means of ensuring euthanasia must be performed prior to disposal.

- d. Describe the plan for **carcass disposal**. If you plan to transport carcasses from the field, be sure to check the **Transportation** box on the **Husbandry** section of the protocol.



The screenshot shows a web-based protocol form. At the top, there are navigation buttons: 'Save', 'Spell Check', 'Help', and 'Close'. Below these are 'Previous' and 'Next' buttons. A horizontal menu contains several tabs: 'Rationale', 'Procedures', 'Alternativ...', 'Procedure ...', 'Husbandry', 'Animal Dis...', and 'Attachments'. The 'Animal Dis...' tab is currently selected. On the left side, there is a vertical sidebar with a list of sections: 'Personnel Information', 'Species', 'Are You Using?', 'Funding Sources', 'Protocol Information', 'Rationale', 'Procedures', 'Alternative Search', 'Procedure Relationships', 'Husbandry', 'Animal Disposition', 'Attachments', 'Certifications', 'Check For Completeness', 'Submit Form', 'Print View', 'Event History', and 'Email History'. The main content area displays a warning: 'Please consult the [ACUC Euthanasia Guidelines](#). Physical methods of euthanasia must be performed under anesthesia. Following euthanasia by chemical methods, an additional physical means of ensuring euthanasia must be performed prior to disposal.' Below this is a table titled 'Euthanasia' with columns for 'Species', 'Primary euthanasia method', 'Route of Administration', 'Dosage mg/kg (if possible)', 'Secondary euthanasia method', and 'Briefly describe the euthanasia procedure'. The table contains one entry for 'Mouse, Laboratory (OLAC Vivarium)' with 'Carbon Dioxide' as the primary method, 'Inhalation (IN)' as the route, 'standard' as the dosage, and 'Cervical Dislocation' as the secondary method. The description field contains the word 'test'. Below the table, there is a text prompt: 'Provide specific details for carcass disposal.' followed by an empty text input box.

Species	Primary euthanasia method	Route of Administration	Dosage mg/kg (if possible)	Secondary euthanasia method	Briefly describe the euthanasia procedure
<input type="checkbox"/> <a href="#">Mouse, Laboratory (OLAC Vivarium)</a>	Carbon Dioxide	Inhalation (IN)	standard	Cervical Dislocation	test