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| SOUTH AUSTRALIAN ANIMAL ETHICS APPLICATION  FOR ANIMAL ETHICS COMMITTEE APPROVAL OF WILDLIFE STUDIES |

Please do not use this form if you require University of Adelaide Animal Ethics Committee approval.

The University web form is accessible at the ethics website: https://www.adelaide.edu.au/research-services/ethics-compliance-integrity/animal-ethics/animal-ethics-applications

**To which committees are you submitting? Email completed form to:**

|  |  |
| --- | --- |
| PIRSA/SARDI | PIRSA.AnimalEthics@sa.gov.au |
| SA Pathology/CALHN | [SAPathologyAEC@sa.gov.au](mailto:SAPathologyAEC@sa.gov.au) |
| Wildlife | [DEW.WildlifeEthicsCommittee@sa.gov.au](mailto:DEW.WildlifeEthicsCommittee@sa.gov.au) |

Instructions

* This form is NOT to be used for Teaching or Breeding Colony Maintenance applications;
* After completing this form please refer to the relevant Animal Ethics Committee for the preferred method of submission via Word or pdf.

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| --- | --- | --- | --- | --- | --- | --- |
| **Office Use**  **Only** | **Project Number:** |  | **Date Received:** |  | **Revision Number:** |  |
|  |  |  |  |  |  |  |
| **Your Licence number for Teaching, Research or Experimentation involving animals in SA:** [**(you or your company/institution must be licenced prior to ethics approval).**](http://www.environment.sa.gov.au/managing-natural-resources/plants-and-animals/Animal_welfare/Animals_in_research_teaching/Research_teaching_licences) | | | | | |  |

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| --- | --- |
| Title of Project |  |
| Name of Primary Applicant |  |
| **Summary** of Animals Required |  |
| Procedure Types (Refer Q11) |  |
| Pain Classifications  (Refer Q12) |  |

|  |  |
| --- | --- |
| Expected date for animal use to begin? |  |
| Expected date for animal use to end? |  |
| Project duration? |  |
| Does this application relate to a previously approved Protocol? | Yes  No |
| If so, give previous approval number(s) |  |
| Have reports on these projects been lodged? | Yes  No |
| Does this project involve any of the following: | Honours Student  Masters Student  PhD Student |
| Funds Source  (Grant ID is applicable) |  |
| Approval to share information | By submitting this application I give approval for this application and any information relating to it to be shared by South Australian Animal Ethics Committees and the Animal Welfare Unit within the Department for Environment and Water for the purposes of administration, approval and monitoring.  Yes |
| Declaration of interest | Is there any actual or potential interest, including financial interest or other relationship or affiliation by any research/team member involved in the project that may affect judgements and decision regarding the wellbeing of the animals involved? See Code [Clause 2.7.4.21](https://www.nhmrc.gov.au/about-us/publications/australian-code-care-and-use-animals-scientific-purposes)  Yes  No  If yes, outline the potential and any steps to be taken to ensure the ethical integrity of the project. |

Primary Applicant

Reminder: All Honours/Masters and PhD studies must be approved by an AEC. The applicant must be the degree candidate supervisor. The University of Adelaide requires ethics applications to be made using its online form.

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| --- | --- | --- |
| Name (include title) |  | |
| Applicant's Institution and Department |  | |
| Contact details  (including After Hours) | Email |  |
| Phone |  |
| Mobile |  |
| Correspondence to |  | |
| Co-applicant | | |
| Name (include title) |  | |
| Institution and Department |  | |
| Contact details (including After Hours) | Email |  |
| Phone |  |
| Mobile |  |

Other Applicant/s

|  |  |  |
| --- | --- | --- |
| Name (include title) |  | |
| Institution and Department |  | |
| Contact details (including After Hours) | Email |  |
| Phone |  |
| Mobile |  |
| Name (include title) |  | |
| Institution and Department |  | |
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| Mobile |  |
| Name (include title) |  | |
| Institution and Department |  | |
| Contact details (including After Hours) | Email |  |
| Phone |  |
| Mobile |  |

1. Short Lay Summary (Maximum 100 words)

A lay summary is a brief summary of a research project that is used to explain complex ideas and technical and scientific terms to people who do not have prior knowledge about the subject.

2. Provide a lay description of the project and its aims, and its hypothesis.

3. Detailed Description of What Will Happen to the Animals

3.1 Using Lay Language describe what happens to the animals from the time they are obtained until the time the project is completed.

3.2 Where will the procedures/use of animals take place? (If more than one location is to be used, clearly explain what will happen at each different site)

|  |  |
| --- | --- |
| Procedure/Use of Animals | Locations (Nearest Named Place) |
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3.3 What will happen to the animal at the end of the project? If it is to be killed, what method is to be used? (Do not include collection of museum specimens here - complete Question 4.4.4)

|  |  |  |
| --- | --- | --- |
| Animal | Fate | Method (if Killed) |
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4. Capture and Use of Wildlife

4.1 Capture Methods

Yes  No, Move to Q4.2

4.1.1 What types of traps will be used? Describe these in full, including dimensions.

4.1.2 How many traps will be set and over what period of time?

4.1.3 How often and at what times will traps be checked and/or cleared?

4.1.4 How will the traps be identified and their locations recorded?

4.1.5 How will distress and death of trapped animals be minimised? (Hot, cold or wet weather etc.)

4.1.6 How will predation of trapped animals be minimised? (Ants, crows etc.)

4.1.7 How will traps be inactivated when not in use, and deactivated when no longer required?

4.1.8 What is the safest time to capture and release the study animals? *(Take into account the reproductive biology of the species and any special considerations given to nocturnal animals)*

4.1.9 If bait is used or food/water provided in traps give details.

4.1.10 What is the maximum number of traps each team leader will have responsibility for within a trapping period? How many assistants will provide support?

4.1.11 Describe any other methods to be used for capture.

4.1.12 What will be done if more animals are caught than expected?

4.1.13 How will the potential impact on dependant young be reduced?

4.1.14 What will happen to non-target animals caught (if applicable)?

4.1.15 What will happen to any feral/pest animals caught (if applicable)?

4.1.16 How will any carcasses be disposed of?

4.1.17 What established standard operating procedures or recognised guidelines (relevant to animal welfare) will be followed? attach a copy of any relevant documents at the end of this document.

4.2 Collection of biological samples (e.g. hair, tissue, blood etc.)

Yes  No, Move to Q4.3

4.2.1 What samples (including blood, tissue, hair, feather, swab etc) will be collected and how will these be taken?

4.2.2 What size/volume/amount of sample will be collected from each individual animal? For blood, express this as a percentage of the animal's circulating blood volume.

4.2.3 What blood/tissue collection route, needle size, technique(s) and equipment will be used?

4.2.4 How often will each individual animal be sampled?

4.2.5 How will pain during the procedure be minimised?

4.2.6 How will the risk of infection at the site be minimised?

4.2.7 How will animals be restrained during handling and/or sampling? (Outline anaesthetic procedures if applicable)

4.2.8 If restraint is required before an anaesthetic takes effect, how will this be achieved?

4.3 Anaesthesia or sedation

Yes  No, Move to Q4.4

4.3.1 How will the animal be monitored (while restrained; during anaesthesia; during recovery)?

Attach your Monitoring Record Sheet at the end of this document.

4.3.2 Where will the animal recover from any anaesthetic/sedative?

4.3.3 What special considerations will be taken into account while the animal is recovering? (e.g. protection from predators; excessive heat or cold)

4.3.4 What steps will be taken to ensure that the animal is recovered sufficiently from any anaesthetic/sedative prior to release?

4.4 Collection of Museum Voucher Specimens

Yes  No, Move to Q4.5

4.4.1 What species and numbers of whole animals will be retained as museum voucher specimens?

4.4.2 What consultation has been undertaken with the Curators from the SA Museum?

4.4.3 Explain why the collection of these voucher specimens is necessary.

4.4.4 How will the animals be killed?

4.4.5 How will the animals be preserved?

4.4.6 Will other samples (e.g. tissue; hair) be collected as an alternative to whole animals?

4.4.7 Where will the voucher specimens be lodged?

4.5 Transporting Animals

Yes  No, Move to Q4.6

4.5.1 Is transport of live animals necessary and if so what method and precautions will be used?

4.5.2 What is the type of container to be used?

4.5.3 What shelter/bedding will be provided?

4.5.4 How many animals per container?

4.5.5 Will food and/or water be provided? Give details.

4.5.6 What precautions will be taken to protect animals from temperature extremes?

4.5.7 What is the maximum length of time that animals will be held in this way?

4.6 Identification of Individual Animals (e.g. photo, microchip, paint, eartag)

Yes  No, Move to Q4.7

4.6.1 How will animals be individually identified?

4.6.2 If animals will be marked temporarily or permanently, describe how this will be done.

4.6.3 If animals are to be marked permanently, give evidence that the potentially negative consequences of any marking technique are outweighed by the benefits gained by the use of this technique in your research.

4.6.4 Animals should only be marked permanently when a project is sufficiently funded to ensure that efforts can be made to recapture/relocate the marked animal/population. Explain whether there is such funding.

4.7 Tracking or Monitoring Technologies (e.g. radio-collars; logging devices

Yes  No, Move to Q5

4.7.1 Give examples (from published literature) of research projects which have used this (or similar) devices and successful attachment techniques, for the taxonomic group concerned.

4.7.2 If you have not used the proposed equipment and methods previously, give details of any experienced researchers you have consulted for advice.

4.7.3 What are the potential negative impacts on the animal of having a device attached or implanted?

4.7.4 If the attachment method has not previously been used in the field under similar circumstances, the attachment methods should be tested on captive animals before using them in the field. Has this been done?

4.7.5 What is the total weight and the dimensions of the transmitter/logger plus the attachment device? Express this as a percentage of the weight of the animal, taking sex and age into account.

4.7.6 Explain how the transmitter/logger will be attached or implanted.

4.7.7 How long will the transmitter/logger remain on/in the animal?

4.7.8 How will the transmitter/logger be retrieved? If not retrieved, explain why.

4.7.9 If a collar or harness is used, is there a break-away or rot-away section? If not, why not?

4.7.10 Transmitters/loggers should only be attached when project funding guarantees the ability to monitor a tagged animal for the life-span of the device, or until the animal is recaptured for device removal or the device is shed. Explain how such funding is assured.

5. Management of Unexpected Adverse Events

5.1 What will happen to an animal that is sick or injured?

5.2 What types of injuries might arise that would result in the need for animal(s) to be euthanased?

5.3 If an animal needs to be euthanased in an emergency, how will this be done, and by whom?

5.4 At what point, if any, will the trapping be stopped (prior to the planned completion date)?

5.5 Identify any other relevant emergencies that may arise (e.g. whilst working in the field in remote or inaccessible locations) and explain what procedures are in place to deal with those emergencies.

6. Monitoring of Potential Pain and Distress

6.1 Identify and justify all procedures with potential to cause pain or distress. What steps will be taken to avoid or minimise such pain or distress?

6.2 Detail the monitoring that will be made of the animals during the project, especially if surgery is performed or devices attached. Attach a Monitoring Record Sheet and identify who will complete it and at what frequency.

7. Animals Required

The AEC understands that it is not always possible to accurately predict how many animals will be captured in some studies, however, an attempt must be made to explain the number of animals which need to be caught to satisfy your research purpose.

7.1 State the Number of Animals to be used in the table below - attach a separate list if necessary.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Common Name | Scientific Name | Strain | Sex | Age or  Size | Number /  Month | Total  Number for  duration  of project | Explanation if total number is  unknown |
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7.2 Animal Number Justification

Irrespective of whether or not the research is likely to cause distress to the animals, the AEC needs to assess whether or not the use of animals will allow worthwhile scientific or educational objectives to be met. Each project must use no more than the minimum number of animals necessary to ensure scientific and statistical validity. Adequately justify the number of animals needed and give your explanation here.

8. Animals Housing

Yes  No, Move to Q9

8.1 Will animals be housed or held (short-term or long-term) after capture?

8.2 Justify why animals need to be housed and not released immediately.

8.3 Where will the animals be housed?

8.4 Describe the container (and state dimensions of any cages/pens/aquarium)

8.5 What shelter/bedding will be provided?

8.6 How many animals per container/enclosure?

8.7 What will be the duration of housing?

8.8 What will animals be fed, and how often will they be fed?

8.9 Who will be responsible for the care of the animals? Provide emergency contact details.

9. Is the acquisition, retention or use of the animals subject to any permit, law or regulation of the State or Commonwealth?

(e.g. Scientific permit number under the *National Parks and Wildlife Act 1972*, Protected native or imported species; Australian Bird and Bat Banding Scheme (ABBBS) Banding Authority; Ministerial Exemption under Section 115 of the *Fisheries Management Act 2007*, SA Health Department Controlled Substances Licence (if required)

Yes  No

If Yes, please provide details of the permit/authorisation number(s) and holder(s).

10. Purpose of the Project (cross primary purpose only)

|  |  |
| --- | --- |
|  | The understanding of human or animal biology. |
|  | The maintenance or improvement of human or animal welfare. |
|  | The improvement of animal management or production. |
|  | The achievement of education objectives. |
|  | Environmental study. |

11. Procedure Category (cross all appropriate categories)

|  |  |
| --- | --- |
|  | Observational Studies: e.g. behavioural study, feeding trial, pitfall trapping, obtaining weights and body measurements. |
|  | Animal Unconscious; No Recovery: Animal killed prior to commencement of project or killed while under general anaesthetic e.g. killing animals for voucher specimens. |
|  | Minor Conscious Intervention: No Anaesthesia: e.g. injections, leg-banding, blood sampling, fitting radio-collars, attaching transmitters with glue or tape, toe or ear clipping for identification purposes, implanting microchips without anaesthesia. |
|  | Minor Procedures with Recovery: e.g. Organ biopsies, attaching radio-collars or transmitters under anaesthesia, implanting microchips under anaesthesia, removing teeth, micro CT. |
|  | Major Surgery with Recovery: e.g. bone surgery, implanting abdominal radio-transmitters. |
|  | Minor Physiological Challenge: e.g. minor infection, minor or moderate genetic deformity, early oncogenesis; residue testing. |
|  | Major Physiological Challenge: e.g. major infection, oncogenesis without pain alleviation; environmental deprivation for extended periods. |
|  | Death as an Endpoint: e.g. lethality testing, vaccine testing where death is a planned and necessary part of the study (see Code definition and clause 1.13). |

12. Pain/Distress Classifications (cross where appropriate)

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Category** | **Procedures** | **Extent and Duration Suffering** |
|  | No pain or distress |  |  |
|  | Mild pain or distress |  |  |
|  | Moderate pain or distress |  |  |
|  | Substantial pain or distress |  |  |
|  | Severe pain or distress (Animals in this category must be humanely killed) |  |  |

13. Administered substances

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Administered substance | Recomm.  Dose Rate  (mg/kg) | Frequency | Route  Administered& needle size | Concentration (mg/ml) & total dose (mg or ml) to be given | Possible adverse effects of administration or withdrawal of substance? |
| Anaesthetic Agents  Brand Name:  Concentration of active substance specified in packaging: |  |  |  |  |  |
| Post-Operative Analgesia  Brand Name:  Concentration of active substance specified in packaging: |  |  |  |  |  |
| Tranquillisers  Brand Name:  Concentration of active substance specified in packaging: |  |  |  |  |  |
| Antibiotics  Brand Name:  Concentration of active substance specified in packaging: |  |  |  |  |  |
| Other Substances  Brand Name:  Concentration of active substance specified in packaging: |  |  |  |  |  |
| Research Compounds/ Test substances/ Devices/Biologicals  Brand Name:  Concentration of active substance specified in packaging: |  |  |  |  |  |
| Humane Killing Agents  Brand Name:  Concentration of active substance specified in packaging: |  |  |  |  |  |

13.1 What experience do you have in using these agents?

13.2 If novel test compounds are to be used in an experiment or screening assay, what is known about the toxicity of these compounds? Please explain how this information is to be found or the lack of knowledge managed.

14. Provide justification for the use of wildlife, taking into account the ethical considerations, the impact on the welfare of the animals and the anticipated scientific value.

15. Why are wild animals required? Can a captive population be used?

16. Please discuss the ethical issues that the AEC will need to consider when reviewing this proposed experimentation. Your answer should address the 3Rs, Replacement, Reduction & Refinement. (See Clauses 1.18–1.30 of [the Code](https://www.nhmrc.gov.au/about-us/publications/australian-code-care-and-use-animals-scientific-purposes)).

“Not applicable” is not acceptable.

|  |  |
| --- | --- |
| 1. Ethical Issues  e.g.:   * What is the welfare cost to the animal? * In what way is the level of pain/discomfort justified? * How does this mesh with the cost/benefit |  |
| 2. Reduction: |  |
| 3. Refinement: |  |
| 4. Replacement  Consideration of Alternatives  Your response, should include the  following:   * A list of any potential alternatives to animal use * Whether any of these alternatives would be used * Details of literature searches you have undertaken   This answer should explain why animals need to be used at all. |  |

17. New Information or Understanding Sought

* It is the responsibility of the applicant to explain to the AEC why the project needs to be conducted and what the benefits are.
* Unnecessary duplication is unacceptable.
* Please explain how your proposal adds in a meaningful way to an existing body of knowledge.

18. In what way does this proposal relate to your previous or concurrent work?

* It is useful for the AEC to understand how this proposal fits into the broad research strategy/interest of your group.

19. Published Articles

20. Do you propose to publish the results and/or make your data available to the wider community? If not, please explain why.

21. Health risks posed to other animals

22. What health risks to other staff exist? How could staff be affected?

23. Credentials of all those involved in the project

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name and Qualification | Detail the experience each participant has in the procedures to be undertaken with the species being used (if no experience, describe how relevant training and supervision will be obtained | In which  procedure(s) is this person involved? | Date this  person  undertook animal welfare user training (in person or online).  **DO NOT LEAVE BLANK** |
| Chief Applicant(s): |  |  |  |  |
| Other People Participating |  |  |  |  |

24. Dual/multiple AEC approval

Is approval by more than one AEC required?

Yes  No

If so, which AEC(s)?

25. Attachments Summary Checklist

|  |  |
| --- | --- |
| Type | Attachment |
| 1. Relevant Standard Operating Procedures (SOPs)  Relates to Q4.1.17 | Yes  No |
| 2. Publications  Relates to Q19 and Q4.7.1, Q18 | Yes  No |
| 3. Monitoring Record Sheets  Relates to Q4.3.1 | Yes  No |
| 4. Other  Please detail: | Yes  No |

26. Declaration

|  |  |
| --- | --- |
| Project Title: |  |

Section 1: Declaration by the Primary Applicant

I hereby declare that:

(i) I and all others involved in this project are familiar with and will comply with the relevant Commonwealth and State or Territory legislation and the requirements of the [Australian Code of Practice for the care and use of animals for scientific purposes, 8th Edition 2013](https://www.nhmrc.gov.au/about-us/publications/australian-code-care-and-use-animals-scientific-purposes) (The Code)

(ii) To the best of my knowledge this proposal conforms to the Code (8th Edition 2013) and the South Australian *Animal Welfare Act 1985.*

(iii) I have read [Section 2 of the Code](https://www.nhmrc.gov.au/about-us/publications/australian-code-care-and-use-animals-scientific-purposes) which sets down the responsibilities of investigators. I accept responsibility for the conduct of all procedures detailed in this application and for the supervision of all personnel delegated to perform any such procedures.

(iv) I agree to comply with procedures described and any conditions imposed by the Animal Ethics Committee.

(v) Sufficient and adequate resources will be available to undertake the proposed study.

|  |  |  |
| --- | --- | --- |
| Primary Applicant's Name | Primary Applicant's Signature | Date |
|  |  |  |

Section 2: Other Applicant's Declaration

I hereby declare that:

(i) I am familiar with and will comply with the relevant Commonwealth and State or Territory legislation and the requirements of the [Australian Code of Practice for the care and use of animals for scientific purposes, 8th Edition 2013](https://www.nhmrc.gov.au/about-us/publications/australian-code-care-and-use-animals-scientific-purposes) (The Code) and the South Australian *Animal Welfare Act 1985* and its regulations.

(ii) I have read the application and I accept the responsibilities detailed therein to the extent of my involvement in this project.

|  |  |  |
| --- | --- | --- |
| Other Applicant's Name | Other Applicant's Signature | Date |
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Section 3: Declaration by the Institutions Nominated Authority (not the Primary Applicant) i.e. Supervisor/Head of Division/Department /Institute

I hereby declare that:

(i) I am satisfied that the Primary Applicant has the appropriate qualifications and experience to carry out the work with minimum distress to the animals.

(ii) I believe this work meets the requirements of the [Australian Code of Practice for the care and use of animals for scientific purposes, 8th Edition 2013](https://www.nhmrc.gov.au/about-us/publications/australian-code-care-and-use-animals-scientific-purposes) (The Code) and the South Australian *Animal Welfare Act 1985* and its regulations.

(iii) I have read the application and I am satisfied that this work is of sufficient scientific merit for my Department to be involved in it and sufficient and adequate resources will be available to undertake the proposed study.

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| --- | --- | --- |
| Nominated Authority | Signature | Date |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **AEC Use Only** | | |
| Date Received: | Action Taken:  Date of AEC meeting for consideration: | Signature of Chair, AEC |

Attachment: Relevant Standard Operating Procedures (Question 4.1.17)

Attach as pdf pages or if text, by copy-paste into field below

Attachment: Relevant Publications (Question 19 and Q4.7.1, Q18)

Attach as pdf pages or if text, by copy-paste into field below

Monitoring Record Sheets (Question 4.3.1)

Attach as pdf pages or if text, by copy-paste into field below

Attachment: Other

Attach as pdf pages or if text, by copy-paste into field below