|  |
| --- |
| **Responsibility**  All investigators who use animals for scientific purposes have a personal responsibility for all matters relating to the welfare of animals and have an obligation to treat the animals with respect and to consider their welfare as an essential factor when planning or conducting projects.  Investigators must be familiar with the provisions of the:   * Australian Code for the Care and Use of Animals for Scientific Purposes, 8th edition 2013 * Prevention of Cruelty to Animals Act 1986 * Prevention of Cruelty to Animals Regulations 2008. |

|  |
| --- |
| **Introduction**  **It is the responsibility of the investigator to ensure all facets of animal care and use meet the requirements of the Australian Code for the Care and Use of Animals for Scientific Purposes.**  **This includes a responsibility to protect and promote the welfare of animals used for the purpose of scientific research.**  **The Code embodies the principles of Reduction, Replacement and Refinement:**   * Ensuring the use of animals is essential and justified. * Ensuring the welfare of animals is always considered. * Promoting the use of techniques that replace the use of animals. * Minimising the number of animals used in projects. * Refining methods and procedures to avoid pain and distress in animals.   **It is important to consider these principles when designing and carrying out projects.**  **Under the Prevention of Cruelty to Animals Act 1986 and Regulations 2008, approval by an Animal Ethics Committee (AEC) is required prior to the commencement of any scientific procedure or program of scientific procedures involving animals.**  In assessing applications it is often difficult for the AEC to obtain a clear "picture" of what happens to individual animals from the beginning to the end of the project. The AEC must assess the cumulative impact of all procedures and the project, as a whole, upon animals.  The application should focus on what is happening to animals at all stages of the process and what is being done to ensure their wellbeing.  It is important this information is presented in a way that makes it clear what is happening to individual animals from the commencement to the completion of a project.  The impact of procedures needs to be clearly detailed.  The investigator should provide a step by step explanation of all treatments (substances, dose rates, routes, volumes, anaesthetics, surgical procedures etc.) and the expected effects. Flow charts or sequence of events tables are recommended.  In addition, factors that will impact on animals such as housing, type, duration and opportunity for social interaction should be considered.  **It needs to be clearly presented why the use of animals is justified, why the species and number of animals have been chosen and that the qualifications of personnel are suitable for the procedures to be performed.**  It is important for applicants to remember the composition of the AEC. Applications must be written primarily for an interested, intelligent lay person, as well as specialist members of the committee.  The use of specialist language is not helpful to the committee and may delay processing of an application while explanations are sought. |

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| **NOTES ON THE COMPLETION OF THIS APPLICATION FORM**   1. Insert your answers in the boxes provided below each question. When necessary boxes will expand to accommodate the length of your answer. 2. A response is required for each question. Write "Not applicable", if necessary. 3. Applications must be written in plain English. It should be assumed that assessors have either no scientific knowledge or no knowledge of your area of research. Where scientific language is unavoidable, it must be supported by a suitable lay description or a glossary of terms. It is not appropriate to include sections from grant applications containing excessive detail of procedures unrelated to the use of animals. 4. It is highly recommended that you ask a colleague and a person with a non-scientific background to read the application before it is submitted. |

***Note: Please do not submit this page with your application.***

***OFFICE USE ONLY:***

|  |  |
| --- | --- |
| **AUSTRALIAN SYNCHROTRON ANIMAL ETHICS COMMITTEE** | |
| **Scientific Institution:** | **Australian Synchrotron** |

*AS-AEC File number*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Date Received: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |  | AS |  | / |  |
|  |  |  | *(Year)* |  | *(Application #)* |

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Title** |  | | |
| **Proposed start date** |  | **Proposed end date** |  |
|  | **Title & Full Name** | **Qualifications & Position** | **Department / Institution** |
| **Chief Investigator** |  |  |  |
| **Person to act in Chief Investigator's absence** |  |  |  |
| **Investigator responsible for animal care** |  |  |  |

The total numbers of animals approved for use in the project are:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Species**  **(and common name)** | **Strain**  **Indicate with \* if genetically modified** | **Sex** | **Age** | **Total #** |
|  |  |  |  |  |

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| --- |
| **Declaration by the Chairperson of the Australian Synchrotron AEC**  I certify that this project has been reviewed by the Australian Synchrotron Animal Ethics Committee. The procedures, personnel and location of research and animal holding outlined in the application have been approved by the Animal Ethics Committee for the period of:  **......../........./.........** to **......../......../..........**  .............................................. .................................  *Chairperson's signature* *Date*  ..............................................  *Print Name*  **Approval is subject to the following** **conditions**:   1. Investigators must not deviate from the approved application. 2. Any requests to modify the approved application must be submitted to the AEC for approval. Modifications must not be implemented without prior written approval from the AEC. 3. Procedures must only be conducted in approved locations. 4. The AEC must be notified of any unexpected adverse effects which impact on animal welfare. 5. The Australian Synchrotron Animal Experiment Report form and an electronic copy of all animal monitoring sheets must be submitted to the AEC within two weeks of completion of beamline experiments. |
|  |

***APPLICANT TO COMPLETE:***

1. **ADMINISTRATION**
   1. **Title**

*The title of the project should be concise and expressed in lay language. Do not use abbreviations or scientific jargon*.

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* 1. **Project Supervisor (Primary Investigator)**

*The project supervisor will have legal responsibility for the welfare of the animals*.

|  |  |
| --- | --- |
| **Name** (Title, given name, surname) |  |
| **Employing Institution** |  |
| **Scientific Procedures Licence**  (name, number if known) |  |

* 1. **Primary Contact**

*The primary contact must be an investigator on the project whose details are given in Section 4.*

|  |  |
| --- | --- |
| **Name** (Title, given name, surname) |  |

* 1. **Animals Requested**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Species**  **(and common name)** | **Strain**  **Indicate with \* if genetically modified** | **Sex** | **Age** | **Total #** |
|  |  |  |  |  |

* 1. **Funding and Contracts**
  2. *Indicate the principal source of funding for this project*:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Internal** | **External Agency** | **Commercial / Private** |
| Peer Reviewed |  |  |  |
| Not Peer Reviewed |  |  |  |

* 1. Name of funding source and, if applicable, the scheme.

|  |
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|  |

* 1. Is this project commercial-in-confidence?  Yes  No
  2. **Risk Management**

|  |  |
| --- | --- |
| Does this project involve procedures or agents that might pose a health risk to other animals and/or personnel? | Yes  No |
| If Yes, please explain the risk and describe what precautions will be taken: | |
|  | |
|  | |
|  | |

* 1. **Permits**

|  |  |
| --- | --- |
| Is the acquisition, holding, or use of the animals subject to any permit, law or regulation of the State of Victoria or Commonwealth (eg. OGTR, protected native or imported)? | Yes  No |
| If Yes, please specify the permit number: |  |

1. **Justification for the Use of Animals**

*Animal Ethics Committees (AECs) must be satisfied that the use of animals is justified, based on whether the scientific or educational value of the work outweighs the potential impact on the animals being used.*

***Unsatisfactory completion of this section will result in a request for revision of the application.***

*Overall, answers provided in the following subsections should provide AEC members, particularly external lay and welfare members, with a clear idea of why the experiments are necessary and what will happen to animals.*

***All information provided in this section must be in language that can be understood by an interested, intelligent person without a scientific background. Do not use scientific jargon and abbreviations.***

* 1. **Project Summary**

1. Provide a brief discussion of the background of the project. If applicable, describe how this project relates to any previously approved projects.

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1. State the aim of the project

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1. Briefly outline how the project is designed to achieve its aims, in particular, what will happen to the animals. ***NOTE: This section is a summary only. Expanded detail of procedures on animals is required in Section 3.3.6.***

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1. Please provide a brief summary of your project in lay terms (less than 200 words). This description should be easily understood by non-scientific members of the committee and no acronyms should be used.

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* 1. **Potential Benefit of the Project**

1. Explain the significance and the potential benefit of the proposed project.

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* 1. **Potential Impact on the Animals**

1. What will be the potential impact on the well-being of the animals to be used in the proposed project, including effects of radiation exposure?

|  |  |
| --- | --- |
|  | **Potential Outcomes** |
| **Minor** |  |
| **Moderate** |  |
| **Substantial** |  |

1. Indicate if the project involves any of the following:

|  |  |
| --- | --- |
|  | Death as an end point (as defined in the *Code*). AEC approved project to be forwarded to Bureau of Animal Welfare under Regulation 12 (2) for final approval |
|  | Production of monoclonal antibodies by ascites method |
|  | Prolonged restraint or confinement |

* 1. **Repeated Studies**

|  |  |
| --- | --- |
| Does this project duplicate work that has been carried out previously? | Yes  No |
| If Yes, please provide AEC Register Number(s) of the other project(s), describe what was done to the animals previously and justify their use in this project: | |
|  | |
|  | |
|  | |

1. **Project Details**

*The purpose of the Australian Code for the Care and Use of Animals for Scientific Purposes is to ensure the ethical use and the humane care of animals used for scientific purposes.*

*The Code emphasises the responsibilities of investigators, teachers and institutions using animals to:*

* *ensure that the use of animals is justified, taking into consideration the scientific or educational benefits and the potential effects on the welfare of the animals*
* *ensure that the welfare of animals is always considered*
* *promote the development and use of techniques which replace animal use in scientific and teaching activities wherever possible*
* *minimise the number of animals used in projects*
* *avoid pain or distress for each animal used in scientific and teaching activities*

*To this end, there is a need in scientific and teaching activities to consider:*

* *the* ***replacement*** *of animals with other methods*
* *the* ***reduction*** *in the number of animals used; and*
* *the* ***refinemen****t of techniques used to reduce the impact on animals.*

***Where scientific language is deemed unavoidable it must be supported by a suitable lay description in the text or in a glossary of terms.***

**GLOSSARY OF TERMS**

|  |  |
| --- | --- |
| **Scientific Term** | **Lay description** |
|  |  |
|  |  |
|  |  |

* 1. **Replacement**

*The Code specifies that techniques that totally or partially replace the use of animals for scientific purposes must be sought and used wherever possible. In order to complete this section, a search of alternatives websites and databases will be required. Suitable websites and databases include:*

<http://altweb.jhsph.edu/databases.htm>

<http://www.nca-nl.org/>

<http://awic.nal.usda.gov/alternatives>

<http://www.lib.ucdavis.edu/dept/animalalternatives/careuse.php>

* + 1. **Alternatives**

Having completed a search of the relevant databases (described above), have alternatives that totally or partially replace the use of animals been incorporated into this project?

|  |  |
| --- | --- |
| Yes | If Yes, please describe what alternatives are to be used in the project: |
|  |  |
|  |  |
| No | If no, provide a list of potential alternatives and describe why they are unsuitable for use in this project. |
|  |  |
|  |  |
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* 1. **Reduction**
     1. **Justification for the Number of Animals Required**

Justify the number of animals requested in terms of statistical considerations and/or other considerations in the experimental design. Where appropriate, present the numbers in table form.

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* 1. **Refinement**
     1. **Choice of Animal**

Justify your choice of animals (species/strain/sex/age)

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* + 1. **Genetic Modification of Animals**

Does the project involve the use or production of genetically modified animals (eg: transgenic knockout or animals with spontaneous genetic mutations)?

|  |  |
| --- | --- |
| Yes | If Yes, please complete Appendix A |
| No |  |

* + 1. **Cloning of Animals**

Does the project involve the use or production of cloned animals?

|  |  |
| --- | --- |
| Yes | If Yes, please complete Appendix A |
| No |  |

* + 1. **Source of Animals**

1. From where will the animals be obtained

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1. Will animals need to be transported from the source location to the location where they will be held for this project?

|  |  |
| --- | --- |
| No |  |
| Yes | If Yes, provide details of transportation and acclimation procedures. |
|  | |
|  | |

* + 1. **Location of Animals and Housing**

1. Where will the animals be housed? If outdoors, please give details of shelter provided. If, contrary to the needs of the species, no shelter is provided, justify the lack of shelter.

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1. Where will the procedures be performed? Please include details of proposed preparation room and hutch number. If animals need to be transported from where they are housed to where the procedures are carried out, provide details of how this will be done.

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1. What type of housing will be used? Include details of methods used to ensure that housing meets the specific requirements of the animals being held. Describe any special housing requirements.

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1. Will any animals need to be housed individually?

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| --- | --- |
| No |  |
| Yes | If Yes, explain why, for how long and how the impact of social isolation will be minimised. |
|  | |
|  | |

* + 1. **Project description**

*This section should explain the scientific rationale of the project and provide a detailed description of the experimental design. Particular emphasis should be placed on describing what will happen to each animal or group of animals (including controls) from the time the animals are obtained until the time the project is completed.*

***It is not necessary to include excessive detail about procedures that do not involve the use of live animals.***

*When multiple procedures are to be performed on individual animals, consider using a flow diagram to illustrate the number of procedures to be performed and the time interval between each procedure. The expected effect of the procedures on the animals should be described.*

*If performing non-terminal surgical procedures describe how asepsis will be maintained during surgery and the pain management strategies that will be used to minimise post-surgical pain and distress.*

*If trapping, marking or tracking wildlife or fish, provide details of the type of trap and marking or tracking device.*

*If agents are to be administered, provide details of dose rates, volumes, needle gauges, routes and methods of administration. Also provide a brief description of the mechanism of action and expected effects of any agents to be administered.*

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* + 1. **Monitoring**

*Investigators are responsible for monitoring the welfare of their animals. This responsibility begins when an animal is allocated to the approved project and ends with the specified fate of the animal at the completion of the project.*

***Unexpected or adverse incidents that impact on the welfare of any individual animal or group of animals must be responded to immediately and immediately reported to the AEC.***

*Some examples of adverse incidents may include:*

* *Unexpected death of an animal or group of animals*
* *Unexpected welfare deterioration during or post procedure including diarrhoea, vomiting, respiratory issues, collapse, abdominal swelling, rapid weight loss or neurological symptoms*
* *Adverse effects in a larger number of animals than was expected*
* *Unforeseen levels of pain/distress*

*All personnel identified in this section of the proposal must be aware of the criteria for monitoring the welfare of the animals and of how records are to be kept.*

***For housed animals, welfare monitoring checklists must be kept with the animal so as to be readily accessible to all nominated personnel and to animal facility staff.***

***A monitoring sheet must be filed for each project for all work performed at the AS. All details about animals should be written into the form during the experimental protocols and a copy of this form must be submitted to the secretary of the AS AEC within 5 working days after completion of the experiments.***

1. Who will monitor the animals day-to-day?

|  |  |
| --- | --- |
| Weekdays |  |
| After hours including weekends and holidays |  |

1. What specific signs will be monitored **throughout** **the project** and how frequently? Attach a copy of the monitoring checklist you will use to record these observations.

|  |
| --- |
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1. What specific signs will be monitored **during and after procedures and interventions** and how frequently? Attach a copy of the monitoring checklist you will use to record these observations.

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1. What clinical, behavioural or other signs will be used to indicate that intervention is needed to alleviate an animal’s pain or suffering? What action will be taken if these indicators are reached? (eg: increase in the frequency of observations, consultation with a veterinarian, administration of analgesics or other appropriate medication, withdrawal from the project, euthanasia etc)

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1. Who is responsible for the management of emergencies?

|  |  |
| --- | --- |
| **Name**  (Title, given name, surname) |  |
| **Employing Institution** |  |
| **Position** |  |

* + 1. **Fate of the Animals**

***AS AEC accepts slow inhalation CO2 where appropriate, but does not recommend this as a procedure. Please contact the Australian Synchrotron Imaging & Medical Beamline Facility Manager for further information.***

1. What is the maximum period of the time that an individual animal or group of animals will be used in this project?

|  |  |
| --- | --- |
|  | Hours  Days  Weeks  Months |

1. What will happen to the animals at the completion of the project?

|  |
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1. If the animals are to be killed, how will this be done and by whom? Include information about agents, dose rates, method and route of administration as well as experience of personnel.

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1. What will be the method of disposal of dead animals?

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1. **Details of Personnel Involved in the Project**

***Investigators have personal responsibility for the welfare of the animals they use and must act in accordance with all requirements of the Act, the Regulations, the Code and the AEC. This responsibility begins when an animal is allocated to the approved project and ends with the specified fate of the animal at the completion of the project.***

*The AEC must be assured that all personnel working on live animals in this project are appropriately experienced, or will be adequately trained and supervised in the techniques described. A global statement of experience with animal related techniques e.g. "10 yrs experience" is not sufficient.*

*The researcher(s) attending the Australian Synchrotron must be registered by the AS User Office.*

* 1. **Project Supervisor**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name**  (title, given name, surname) | |  | | |
| **Qualifications** | |  | | |
| **Department/Organisation** | |  | | |
| **Position** | |  | | |
| **Telephone** (direct) | |  | | |
| **Email** | |  | | |
| **Will you carry our techniques/procedures on live animals?**  If yes, please complete expertise details below. | | | | Yes  No |
| For each species and technique, describe the level of expertise and number of years’ experience you possess. If no experience, please complete the arrangements for training in the section below. | | | | |
| **Species** | **Technique/procedure** | | **Level of expertise**  (approx # of times you have performed the procedure in this species) | |
|  |  | |  | |
| For each species and technique, nominate the person who will provide training and describe their level of expertise. | | | | |
| **Species** | **Technique/procedure** | | **Level of expertise**  (approx # of times you have performed the procedure in this species) | |
|  |  | |  | |
| **Trainer(s) declaration:** I/We have the relevant expertise and I/we accept responsibility to train and supervise the above person until I/we consider them to be competent in the necessary procedures:  Trainer(s) Signature: Date: | | | | |

* 1. **Other Investigators**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name**  (title, given name, surname) | |  | | |
| **Qualifications** | |  | | |
| **Department/Organisation** | |  | | |
| **Position** | |  | | |
| **Telephone** (direct) | |  | | |
| **Email** | |  | | |
| **Will you carry our techniques/procedures on live animals?**  If yes, please complete expertise details below. | | | | Yes  No |
| For each species and technique, describe the level of expertise and number of years’ experience you possess. If no experience, please complete the arrangements for training in the section below. | | | | |
| **Species** | **Technique/procedure** | | **Level of expertise**  (approx # of times you have performed the procedure in this species) | |
|  |  | |  | |
| For each species and technique, nominate the person who will provide training and describe their level of expertise. | | | | |
| **Species** | **Technique/procedure** | | **Level of expertise**  (approx # of times you have performed the procedure in this species) | |
|  |  | |  | |
| **Trainer(s) declaration:** I/We have the relevant expertise and I/we accept responsibility to train and supervise the above person until I/we consider them to be competent in the necessary procedures:  Trainer(s) Signature: Date: | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name**  (title, given name, surname) | |  | | |
| **Qualifications** | |  | | |
| **Department/Organisation** | |  | | |
| **Position** | |  | | |
| **Telephone** (direct) | |  | | |
| **Email** | |  | | |
| **Will you carry our techniques/procedures on live animals?**  If yes, please complete expertise details below. | | | | Yes  No |
| For each species and technique, describe the level of expertise and number of years’ experience you possess. If no experience, please complete the arrangements for training in the section below. | | | | |
| **Species** | **Technique/procedure** | | **Level of expertise**  (approx # of times you have performed the procedure in this species) | |
|  |  | |  | |
| For each species and technique, nominate the person who will provide training and describe their level of expertise. | | | | |
| **Species** | **Technique/procedure** | | **Level of expertise**  (approx # of times you have performed the procedure in this species) | |
|  |  | |  | |
| **Trainer(s) declaration:** I/We have the relevant expertise and I/we accept responsibility to train and supervise the above person until I/we consider them to be competent in the necessary procedures:  Trainer(s) Signature: Date: | | | | |

1. **Project Supervisor Declaration**

I hereby declare that:

* I have read the *Australian Code for the Care and Use of Animals for Scientific Purposes*, *8th edition, 2013*, the *Prevention of Cruelty to Animals Act 1986* and the *Prevention of Cruelty to Animals* *Regulations* *2008* and accept the responsibilities detailed therein.
* I accept responsibility for the conduct of all experimental procedures detailed in this application and for the supervision of all personnel delegated to perform any such procedures.
* I have listed each person engaged in this project under Section 4 and consider that they have the qualifications, experience and training appropriate for their role in the project; and that they are competent to perform procedures described to the extent of their role. If any person is not already skilled in the procedures, I will ensure that they obtain all necessary training in advance of performing any procedure independently. All personnel have been made aware of their role and responsibilities in this project, and have been given copies of all necessary documentation.
* The Imaging and Medical Beamline Facility Manager has been made aware of requirements for this application.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| Name |  | Signature |  | Date |

1. **Other Investigator Declaration**

I hereby declare that:

* I have read the *Australian Code for the Care and Use of Animals for Scientific Purposes*, *8th edition, 2013*, the *Prevention of Cruelty to Animals Act 1986* and the *Prevention of Cruelty to Animals* *Regulations* *2008* and accept the responsibilities detailed therein to the extent of my involvement with this project.
* I accept responsibility for the conduct of all experimental procedures detailed in this application that I will undertake.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| Name |  | Signature |  | Date |

|  |  |  |  |  |
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|  |  |  |  |  |
| Name |  | Signature |  | Date |

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|  |  |  |  |  |
| Name |  | Signature |  | Date |

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| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| Name |  | Signature |  | Date |

1. **AS Imaging and Medical Beamline Facility Manager Declaration**

The signature of the animal facility manager or approved delegate is required if animals are to be housed in the animal facility.

**Declaration:**

I confirm that the required animals can be obtained from and/or housed in the animal facility:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| Australian Synchrotron Animal Facility Manager Name |  | Signature |  | Date |

1. **Conflict of Interest**

Is there any affiliation or financial interest for researchers in this research project or its outcomes or any circumstances which might represent a perceived, potential or actual conflict of interest?

|  |  |
| --- | --- |
| No |  |
| Yes | If Yes, provide brief details |
|  | |
|  | |

**CHECK LIST:**

|  |  |  |
| --- | --- | --- |
|  | **Yes** | **No** |
| **Project Title** |  |  |
| Does it describe the work proposed? |  |  |
| **Project Duration** |  |  |
| Is the proposed duration stated? |  |  |
| **Safety** |  |  |
| Are there any safety issues for humans or other animals? |  |  |
| **Justification for the use of Animals** |  |  |
| Is the project summary easily understood by people who do not have a scientific background? |  |  |
| Are the aims clearly stated? |  |  |
| Is the significance of the work clear? |  |  |
| **Replacement** |  |  |
| Is it clear why alternatives are not being used? |  |  |
| **Reduction** |  |  |
| Are the numbers requested justified? |  |  |
| **Refinement** |  |  |
| Are all terms clearly defined? |  |  |
| Where will the animals be housed and who will care for them at all stages of the project? |  |  |
| Do any genetically modified or cloned animals have phenotypes which require special care? |  |  |
| What will happen to each individual animal or group of animals from the beginning to the end of the project? (agents, dose rates, routes and frequency of administration, actions, anaesthesia, surgery, number of procedures per animal etc) |  |  |
| What is the potential impact on the animals’ welfare of each procedure? |  |  |
| What criteria will be used to monitor the animals? |  |  |
| What will be done if welfare problems are identified? |  |  |
| How will the animals will be killed and disposed of? |  |  |
| **Investigators** |  |  |
| Who will be doing the work? |  |  |
| What experience do the named personnel have in the specific techniques described in the proposal? |  |  |
| What training is needed? |  |  |
| Who will provide the training? |  |  |
| How the training will be provided? |  |  |

**APPENDIX 1**

**GENETIC MODIFICATION OR CLOND OF ANIMALS REPORT**

**This report must be completed for all projects involving the use or production of genetically modified animals.**

1. **Animal Details**

(*A separate report is required for each strain)*

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| **Species**  **(and common name)** | **Strain Name** | **Background Strain** |
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1. **Genotype**

*(If applicable for cloned animals)*

* 1. Describe the function(s) of the gene(s) that have been/will be modified

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* 1. Explain the relevance of the genetic modification to the project

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* 1. Will tissue be collected to use for genotyping?

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| No |  |
| Yes | If Yes, describe how and when |
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* 1. What will be the fate of the animals that are not of the appropriate genotype?

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1. **Phenotype**
   1. Is the phenotype of this strain well characterised?

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| No | Briefly describe the *potential* or *anticipated* behavioural, physiological, reproductive and developmental features of the strain and identify whether the modification(s) will affect the health, welfare, breeding or lifespan of the animals |
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| Yes | Briefly describe the *known* behavioural, physiological, reproductive and developmental features of the strain and identify whether the modification(s) will affect the health, welfare, breeding or lifespan of the animals |
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* 1. Does the strain require any special husbandry?

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| No |  |
| Yes | If Yes, describe the particular requirements for care |
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1. **Breeding**

Describe the breeding program (eg: heterozygous, homozygous, back-crossing) that will be used to produce the genetically modified or cloned animals to be used in the project. Provide estimates on the number of animals that will be used in the breeding program.

***Note: Records of the number of animals used as part of the breeding program (including animals culled because of inappropriate genotype) must be maintained and provided to the AEC and Bureau of Animal Welfare on request.***

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