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**Questions relating to research involving the use of vertebrate animals or other organisms covered by the Animals Scientific Procedures Act.**

**Section 1 – Complete all questions in this section if your proposed research involves the use of any vertebrate animal or other organism covered by the Animals Scientific Procedures Act**

UKRI’s expectations for the responsible use of animals in research are set out in the document [Responsibility in the Use of Animals in Bioscience Research](https://nc3rs.org.uk/responsibility-use-animals-bioscience-research). Implementation of the principles in this guidance is a condition of receiving funds, regardless of where in the world the research is conducted. Applicants are therefore strongly recommended to consult the guidance before answering the animal research questions.

**What would be the maximum severity of the procedures/protocols?**

Please place a tick directly adjacent to those that apply:

Mild or non-recovery

Moderate

Severe

If you have placed a tick by ‘Moderate’ or ‘Severe’, please provide details of any moderate or severe procedures/protocols.

**Are Home Office approvals required (in relation to personal, project and establishment licences)?**

If not, enter ‘N/A’ in the text box and move on to the next question.

If they are, enter ‘Yes’ and state what approvals are required and whether they are already in place.

**If your proposed research intends using any of the species listed below, please place a tick directly adjacent to that/those species:**

Mouse

Rat

Guinea Pig

Hamster

Rabbit

Cat

Dog

Equidae

Pig

Sheep

Cow

Non-human primate

Poultry

Amphibian

Zebrafish

Other animal(s) - please specify below

**Experimental Design and Statistical Framework**

Justify your use of the species proposed and explain why no realistic non-animal alternatives exist. Please describe the experimental design, including any plans to reduce bias such as blinding or randomisation if appropriate.

A justification of the proposed sample size must be given along with details of the planned statistical analyses.

Power calculations must be included in this section if appropriate. (Please see p.13 of [Responsibility in the Use of Animals in Bioscience Research](https://nc3rs.org.uk/sites/default/files/documents/Guidelines/Responsibility%20in%20the%20use%20of%20animals%20in%20bioscience%20research%202019.pdf) for further information).

**Section 2 - Complete the additional questions below only if the proposed research will involve the use of non-human primates, dogs, cats, equidae or pigs.**

The answers you provide below will be assessed by the NC3Rs during their [review](https://www.nc3rs.org.uk/who-we-are-and-what-we-do#services) of research proposals. Your answers should include any overseas studies proposing to use non-human primates, cats, dogs, equines, or pigs.

**Sourcing and Transport**

From where will the animals be sourced? (name the supplier and give the location). If the animals need to be transported add a ‘Y’ to column 4. Then add the approximate journey time in hours to column 5, and the measures that will be taken to minimise the potential stress during transport to column 6.

If the animals will not be transported, mark column 4 with a ‘N’ and add ‘N/A’ to columns 5 and 6.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Animal type** | **Supplier** | **Location** | **Transported** | **Journey time** | **Stress mitigation measures** |
| **Non-human primates** |  |  |  |  |  |
| **Dogs** |  |  |  |  |  |
| **Cats** |  |  |  |  |  |
| **Equidae** |  |  |  |  |  |
| **Pigs** |  |  |  |  |  |

**Husbandry**

Please provide details of the housing for the animals, including enclosure type, size and space allocation per animal. Note these must meet or exceed the minima in Annex III to [Directive 2010/63/EU](http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2010:276:0033:0079:en:PDF).

Please detail what environmental enrichment will be provided for the animals. Be sure to address the following in your answer in respect of these species:

* dogs: daily socialisation and out-of-pen activity
* equines: access to pasture for grazing and exercise
* pigs: substrates for rooting and foraging behaviour, and prevention of maladaptive behaviours such as tail biting.

Will single housing of the animals be necessary at any time? If so, please provide details in terms of the justification for single housing, its duration, and what additional resources will be provided to the animals to minimise the impact of the single housing. Leave blank if not applicable.

If your research involves non-human primates, do the facilities and practices and the proposed research comply with the principles set out in the NC3Rs Guidelines ‘Non-human primate accommodation, care and use’ ([www.nc3rs.org.uk/primatesguidelines](http://www.nc3rs.org.uk/primatesguidelines))? If they do, simply write ‘Yes’ in the text box and move to the next question. If they do not, please explain why that is the case below.

**Procedures**

Describe the experimental procedures involved and how any pain, suffering, distress and/or lasting harm will be minimised.

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

When were the procedures last reviewed by the Animal Welfare and Ethical Review Board (AWERB), Institutional Animal Care and Use Committee (IACUC) or equivalent?

State the year

What adverse effects might the animals experience? List the clinical and other signs that will be monitored, the frequency of monitoring, and where relevant state the humane endpoint criteria established for the study.

Will any of the experimental procedures involve restraint? What alternatives have been considered? Describe the nature of the restraint, its duration and frequency, and what will be done to avoid distress? Please leave blank if not applicable.

**Will any of the experimental procedures involve food and/or water control?**

If so, justify why this is necessary and outline what alternatives have been considered.

For neuroscience studies, please confirm the NC3Rs recommendations ([**http://dx.doi.org/10.1016/j.jneumeth.2010.09.003**](http://dx.doi.org/10.1016/j.jneumeth.2010.09.003)) on refining food/fluid control will be met. If not, please explain where they are not and why.

**Staff Experience**

What prior experience and training in the use, care and welfare of the study species do staff members named in the application have? What provision is made for continuing professional development in these areas?

Will any of the staff involved require specific training for any of the procedures concerned? Please provide details of the training needed and where it will be undertaken. Please leave blank if not applicable.

**Advances**

Do you envisage any advances arising from the research that might lead to replacement, refinement or reduction of the use of animals? If so, what might they be, and how do you propose to disseminate such findings? Please leave blank if not applicable.