UK Research and Innovation

If your project involves the use of animals, please read our guidance and submit a signed statement (uploaded as a Letter of Support to the Je-S application) from both UK and overseas PIs that:

- they will adhere to all relevant national and local regulatory systems in the UK and overseas.
- they will follow the guidelines laid out in the www.nc3rs.org.uk/responsibility-use-animals-bioscience-research document and ensure that work is carried out to UK standards.
- before initiation of the proposed research work, appropriate approvals from institutional and/or central animal ethics committees will be obtained for experimental protocols to be adopted in their projects. [Successful proposals may be expected to provide copies of these permissions before funding is released.]
- details where the animal research will take place (UK or overseas) and through which funder the resources are being sought.

If the research involves the use of rodents overseas rather than in the UK, please also complete the “Additional questions on the use of rodents overseas“ form (see below), and attach as a letter of support in Je-S.

UK Research and Innovation

NC 3Rs National Centre for the Replacement Refinement & Reduction of Animals in Research

**Additional questions on the use of rodents overseas**

The expectations of the Research Councils for the use animals in research are set out in the document 'Responsibility in the Use of Animals in Bioscience Research'. Compliance with the principles in this document is a condition of receiving funding.

Please confirm the following: *(yes/no)*

| | |
|---|---|
| 1. The enclosure sizes and space allocations meet or exceed those in Annex VII to Directive 2010/63/EU (Tables 1.1 to 1.5) | |
| 2. The rodents are provided with: a) substrate/bedding on a solid floor; b) a shelter and/or nesting material for refuge and to help regulate body temperature and light exposure; c) chew blocks or other gnawing material. | |
| 3. The rodents are housed socially. Exceptions to this must be justified below. | |
| 4. Appropriate, contemporary anaesthesia and/or analgesia is provided to minimise pain and distress. Any withholding of pain relief during painful procedures must be justified below. | |
| 5. Surgery is performed using aseptic technique, the least invasive surgical approaches, and appropriate perioperative care (pre-operative medications, hypothermic prevention, ophthalmic protection, nursing care where required). | |
| 6. Toe clipping and/or tail biopsy are not used for identification or genotyping purposes. | |
| 7. Where genotypes are known to be harmful, animals of that type are not produced unless required scientifically (e.g. if homozygous null is harmful and heterozygotes are desired, then heterozygous is crossed with wild type, not another heterozygous animal). | |
| 8. Where new GA strains are being generated, best knowledge will be applied to predict potential harmful outcomes and the animals will be monitored closely for emerging phenotypes. | |
| 9. The rodents are monitored with a frequency appropriate to keep pain and distress to a minimum, using appropriate, tailored welfare indicators and score sheets. | |
| 10. Humane endpoints have been established for each experiment with the potential to cause moderate or severe harm, after consultation with the veterinarian and animal care staff, and implementation of these is recorded during the experiment. (Note the humane endpoint criteria may be requested by the Research Councils) | |
| 11. The methods of humane killing are those recommended by the AVMA (2013) or permitted under Directive 2010/63/EU. | |

Where there are deviations from the above, please explain below: *(free text; one side of A4)*

| |
|---|
| |