UNIVERSITY OF CAMBRIDGE
University Biomedical Services

Minutes

Date Monday, 19/12/2022
Time 1pm
To Standing Committee
At [redacted]
Subject AWERB Standing Committee
Our Ref Doc.UBS.AWERB.19.12.22

In attendance: [redacted]

Scientists in attendance for 1a) core**, 1b)** core, **1c)** core, **1d)** core & **1e)** core

Apologies: [redacted]

Minutes: [redacted]

1. Project Licences
(a) New licence: [redacted]
The committee discussed the following:

- The removal of the [redacted] by name from the Non-Technical Summary.
- The inclusion of references to alternative enrichment in the Refinement section.
- Further information included in the Refinement section in regards to animals experiencing weight loss post specific procedures.
- The inclusion of references to the researcher's bespoke monitoring methods in specific protocols.
- Maximum volumes, sites, paws and frequency of injections require amending in Step 1 of Protocol 1.
- Further clarity and amending required of experimental steps that should not be on Protocol 4.
- Further consistency required in regards to specific adverse effects and humane end points on Step 2 of Protocol 5.
- Further information around time-frames for specific adverse effects in Step 1 of Protocol 14.
- The inclusion of an ageing step in Protocol 15.
- Review of the general humane end points to ensure they are appropriate in Protocol 20.
- The recommendation that the researcher checks they have all the anaesthetic codes necessary throughout the application.
- The recommendation that the researcher checks all control animals are listed on each step where they are needed.
- The committee understood that animal numbers may increase above what they have seen at the AWERB meeting. The committee agreed they would not need to see the application again if justification is added by including information around the award of the new grant.

The committee agreed changes were needed before a draft is submitted to the Home Office.

(b) New Licence: [redacted]

The committee discussed the following:

- Specific wording requires amending in the Non-Technical Summary.
- Consideration given to whether there are any potential adverse effects for the administration of substances and manipulations in regards to Protocol 1.
- Humane end points required in Step 1 of Protocol 4.
- Humane end points required in Step 4 of Protocol 5.
- The removal of neonates from the life stage of Protocols 6 and 7 if they are not intended for use.

The committee agreed changes needed to be made before a draft is submitted to the Home Office.

(c) New Licence: [redacted]

The committee discussed the following:

- Further justification required in regards to animal numbers.
- Review of the application to ensure all protocols can stand alone in light of the copying and pasting of steps.
- Removal of scientific language from the Non-Technical Summary and replaced with terminology that is understandable to a lay person.
- Specific wording requires amending in the Benefits section.
- The inclusion of the publication of unsuccessful approaches in the, ‘How will you look to maximise the outputs of this work’ section.
- Specific wording requires amending in the Project Harms section and further information required in regards to dosing/sampling techniques and routes of administration.
- Specific wording requires amending in regards to the adverse effects.
- The inclusion of whole figures in the, ‘What are the expected severities and the proportion of animals in each category (per animal type)’ section.
- The inclusion of the estimated animal numbers only in the Reduction section.
- Further information in regards to the average time between litters in the Reduction section.
- Further explanation required in regards to power calculations.
- Review of information given in regards to experimental design so it is understandable to a lay person.
- Consideration given to whether the publication information may be given in another format in the Refinement section.
- Further clarity required and the removal of references to the protocols in the final paragraph of the Reduction section.
- Consideration given to the inclusion of a flow chart in the Action Plan.
- Further review of the protocols in regards to specific adjuvants planned for use as well as further details around dosing regimens, adverse effects and humane end points.
- Further specificity required in regards to the adverse effects in the protocols.
- Further consistency between protocols required in regards to anaesthetic codes.
- Further specificity required in regards to the humane end points.
- Further review of the time points applied within the protocols.
- Specific terminology within the protocols needs removing.
- The inclusion of appropriate control animals within the protocol steps.
- Review of specific procedures in Protocol 2.
- Further information required in regards to the humane end points of Protocol 3.

- The removal of additional text that is not in the set templates in the Experimental design section of Protocol 3.
- The removal of Protocol 5.
- The inclusion of specific adverse effects in regards to Step 1 of Protocol 6.
- Further clarity required in regards to specific procedures planned in Step 2 of Protocol 6.
- The removal of specific paragraphs in Protocol 6 that are not required.
- Typographical errors require amending in Protocol 7.
- The recommendation that the researcher liaise with the facility NACWO to ensure supportive measures listed are correct in regards to Protocol 7.
- Rewording required in regards to weight loss limits in Protocol 7.
- Specific procedures require their own steps in Step 5 of Protocol 7.
- Re-wording of Step 11 title required.
- Specific answers given in the 'Fate of animals' section require correcting.
- The inclusion of all methods of administration within Protocol 7 in the Protocol Justification section.
- Further clarity required in Step 2 of Protocol 8.
- Further information required in regards to the humane endpoints in Step 2 of Protocol 8.
- Further information around specific procedures planned in Step 9 of Protocol 8.
- The removal of specific words in the 'What are the likely adverse effects of this step' section.
- Further specificity in regards to humane endpoints in Protocol 8.
- The inclusion of reference to a score sheet in Step 2 of Protocol 9.
- Specific references to weight loss require amending in Protocol 9.
- Further clarity required in regards to clinical signs in the Animal Experience section of Protocol 9.
- Specific wording in Protocol 10 require amending.
- Review of the humane end points section in Protocol 10 required for clarity.
- Amending of Step 8 so it is no longer mandatory.
- Further information around the typical experience of an animal experiencing specific adverse effects.
- Removal of specific wording from the general humane endpoints
- Further clarity required in regards to humane end points for Protocol 11.
- Further information in the Animal Experience section of Protocol 11 in regards to clinical signs an animal will typically experience when undergoing specific procedures.
- The recommendation that Body Condition Scoring also be used in regards to weight loss on Protocol 15.
- Review of time frames listed in Step 2 of Protocol 15.
- Further information and clarity required in regards to weight loss in Step 3 of Protocol 15. This information should also be included in the Animal Experience section.
- Further updating required in the Animal Experience section so that includes specific procedures.
- Re-wording required in the Experimental design section of Protocol 11.
- Further clarity required in regards to re-use.

The committee agreed changes were needed before a draft is submitted to the Home Office.

(d) Amendment: [redacted]

The committee discussed the following:

- Further review of the animal numbers required in the Reduction section.

- Consideration given to whether there is any additional supportive care that can be included to limit the impact on the animals experience in the Refinements section.
- Further detail required in regards to the procedures that will be carried out in the protocols in the Scientific Background section.
- Review of the continued use sections to ensure they relate to the correct protocol numbers.
- The inclusion of control animals in the steps as well as the Animal Experience sections of the protocols wherever they are needed.

- Further information required in regards to life stages included in Step 8 of Protocol 7.
- Inclusion of how analgesia will be used in step 10 of protocol 7.
- Further information in regards to how animals will be monitored in Step 10 of Protocol 7.
- Further information around animals with specific phenotypes and specific procedures in Protocols 7 and 8.
- Further information around specific clinical signs in Step 10 of Protocol 8.
- Rewording required in the Scientific Justification section of Protocol 8.
- Review of specific steps to ensure they are separate.

The committee agreed changes were needed before a draft is submitted to the Home Office.

(e) Amendment: [redacted] (was not required to attend)
The committee discussed the following:

- The committee had no recommendations to make and supported the proposed change of PPL holder to [redacted]

2. Retrospective Reviews
(a) None

3. Minutes of the AWERB Sub-Standing committee 09/11/22
The minutes were noted.

4. Minutes of the AWERB 3Rs Committee 02/11/22
The minutes were noted.

5. Minutes of the AWERB Operations Committee 21/10/22
The minutes were noted.

6. Matters arising from the minutes and AOB
Non-Regulated Procedure Request: [redacted]– The committee reviewed this Non-Regulated Procedure request and had no comments that needed to be addressed. The committee agreed this request would be signed off.

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7. List items of note

Date of next meeting: 25/01/23