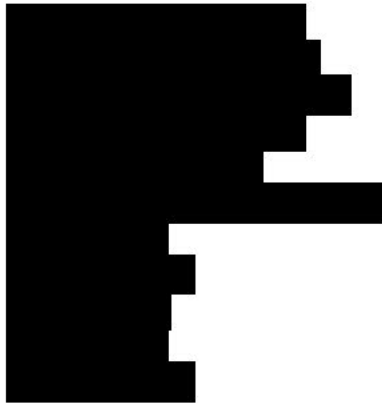


**3Rs subgroup for the  
ANIMAL WELFARE AND ETHICAL REVIEW BODY**

**Minutes of the meeting held on 23 June 2021**

Present:



Apologies:



**1. Minutes**

*Agreed:* That the minutes of the meeting held on 17 March 2021 were approved.

**2. Retrospective reviews of Project Licences requiring licence holder attendance at meeting**

**2.1. [REDACTED], Circadian control of behaviour and metabolism, [REDACTED]**

*Considered:* A completed Retrospective review form and presentation

*Interviewed:* [REDACTED]

- Discussed:*
- [REDACTED] asked [REDACTED] if there was data showing any positive effects from giving animals pre-op mash in terms of the animals recovering faster from surgery, etc. [REDACTED] explained that the animals do recover quicker and the associated weight loss is reduced. The benefits for getting all animals used to pre-op mash were discussed, including mechanisms for identifying animals which would need pre-op mash.
  - The benefits of wave breeding were discussed, whereby a lot of females are exposed to males at the same time to produce a large amount of animals which will be able to be age-matched.
  - The NVS explained about Standard Condition 18s and non-compliances.
  - [REDACTED] explained that of the 5 objectives listed in the licence all had been met apart from the objective regarding the hypothalamus where work is still ongoing under a new licence.
  - [REDACTED] talked about technical approaches that hadn't worked in the licence which were no longer used, e.g. discrete brain lesioning.
  - The effect of the pandemic was discussed. [REDACTED] explained that unfortunately a number of animals had to be culled due to the first

lockdown. He does think that breeding for his colonies has re-started well and they are in a good position to continue now.

2.2. [REDACTED], The role of circadian clocks in immunity, [REDACTED]

*Considered:* A completed Retrospective review form and presentation

*Interviewed:* [REDACTED]

- Discussed:*
- [REDACTED] raised the work being done by [REDACTED] group lung inflammation and that she would provide contact details to [REDACTED] who is still doing work on the lung. [REDACTED] explained that her focus has moved away from lung inflammation.
  - The number of animals created from breeding was discussed along with the difficulties in requiring a mouse with certain transgenes from breeding. [REDACTED] explained that mice bred that are not needed for an experimental protocol are humanely killed by S1 and the tissue harvested.
  - A discussion took place about the use of males exclusively in the work and that under the new licence both sexes are included and this factor included in the analysis of the data.
  - [REDACTED] discussed that it is becoming easier in journals to include the information required from the ARRIVE guidelines.
  - [REDACTED] discussed that they have a biostatistician on their team who provides ongoing advice on the analysis of the data and that Inferstats provides initial help in setting up the studies.

2.3. [REDACTED], Understanding vision, developing therapies, [REDACTED]

*Considered:* A completed Retrospective review form and presentation

*Interviewed:* [REDACTED]

- Discussed:*
- [REDACTED] asked [REDACTED] about the use of Rhabdomys (African striped mice) in his research, and if this had led to a reduction in the use of ordinary mice. [REDACTED] explained that Rhabdomys are usually used to answer different questions, so in that way they hadn't reduced the use of mice; however, there are only so many people available for studies, and so this does automatically limit the amount of work done and therefore number of animals used.
  - The pros and cons of using a wireless system rather than a tethered system were discussed. The difference in weight between the systems is very small and the wireless system allows for more natural behaviour. The tethered systems do contain more recording sites so might be required for certain scientific questions but [REDACTED] has never used a tethered system in his lab.
  - The possibility of using [REDACTED] methods to observe behaviour were discussed including the current limitations to [REDACTED] work with restoring vision.

### 3. Retrospective reviews of Project Licences not requiring licence holder attendance at meeting

#### 3.1. [REDACTED], Models of tissue injury, repair and reconstruction, [REDACTED]

*Considered:* A completed Retrospective review form

- Discussed:*
- [REDACTED] is keen to work with [REDACTED] from a comms perspective to promote the work in the MRL mouse which has the potential to regenerate some of its tissues. [REDACTED] agreed to put [REDACTED] and [REDACTED] in touch.

#### 3.2. [REDACTED], Development of new models of FTLD/MND, [REDACTED]

*Considered:* A completed Retrospective review form

- Discussed:*
- The work on this licence did not produce the expected results so [REDACTED] is working with [REDACTED] using Drosophila to move this work forward.

#### 3.3. [REDACTED], Precursor cell therapies for kidney diseases, [REDACTED]

*Considered:* A completed Retrospective review form

- Discussed:*
- [REDACTED] is collaborating with a group at the University of Liverpool in future work.

#### 3.4. [REDACTED], Type 2 immunity in infection and tissue homeostasis, [REDACTED]

*Considered:* A completed Retrospective review form

- Discussed:*
- Tissue sharing was discussed by the subgroup, including the practicalities and limitations of any system that was created for this purpose.

### 4. Mid-term reviews of Project Licences not requiring licence holder attendance at meeting

#### 4.1. [REDACTED], Regulation of glomerular barrier function in health and disease, [REDACTED]

*Considered:* A completed mid-term review form

- Discussed:*
- The NVS and NCTO reported that following the SC18 which went on to become a non-compliance, changes were put in place by the group and no other issues have been reported.
  - The BSF introduced an induction session for all new PILs to ensure it was clear what was required of them.

*Outcome:* The subgroup supported continued work on this licence.

#### 4.2. [REDACTED], The role and regulation of reactive oxygen species in development and regulation, [REDACTED]

*Considered:* A completed mid-term review form

- Discussed:*
- [REDACTED] discussed how photographs of the frogs are being used to identify them, and to track quality and quantity of oocytes produced. [REDACTED] will

follow-up to see if frogs are being removed from the colony based on this evidence.

*Outcome:* The subgroup supported continued work on this licence.

## 5. Manchester 3Rs symposium

■ encouraged everyone to sign up for the symposium and let their groups know about it.

## 6. Any other business

### 6.1. Feedback on the review forms

- Discussed:*
- The breeding guidelines that ■ is developing were discussed and that these would be taken over by someone once ■ leaves.
  - A discussion took place about alternatives to publishing negative data in journals, such as sharing datasets, etc.
- Action:*
- ■ to update the review forms to ask for Standard Condition 18s and non-compliances separately.
  - ■ to update the retrospective review form to ask if there is an intention to publish negative results and if not, why not.
  - ■ to update the retrospective review form to ask for the initial number of animals on the licence to see if the number of animals used differed from this.

The next meeting will be held on 29 September 2021, at 2pm, via Zoom