

THE UNIVERSITY OF MANCHESTER  
ANIMAL WELFARE AND ETHICAL REVIEW BODY

Present: [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

By invitation: [REDACTED] (Home Office Inspector)

Apologies: [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

**1. Minutes from the meeting on 12 April 2018**

**1.1. Three errors/corrections were noted:**

- 1.1.1. The date of the NW AWERB Hub should have been 14 June 2018
- 1.1.2. Item 5.23 should have read "Cherry"
- 1.1.3. Item 5.5.3 (4) was modified to read "For some studies carried out at [REDACTED] the person completing the experiment will be blinded to the study/dose"

**2. Matters arising**

All the applications considered at 12 April 2018 meeting have been signed off by the PEL:

- 2.1. [REDACTED], Zebrafish Models of Haemorrhagic Stroke ([REDACTED])
- 2.2. [REDACTED], The Role & Regulation of Reactive Oxygen Species in Development & Regeneration ([REDACTED])
- 2.3. [REDACTED], Dysregulation of Skin Homeostasis ([REDACTED])

### 3. NW region AWERB hub

3.1. The location of the meeting is [REDACTED]

3.2. Agenda items have been collated and are:

1. PPL applications; how to ensure applicants are leaving themselves enough time
2. Standardised wording relating to adverse effects and HEP
3. Should AWERB be discussing the scientific justification as well as the ethical side
4. Lay summary GOOD/BAD versions
5. Non ASPA Work (UCLAN experience to be shared at meeting).
6. Disaster recovery and ensuring management processes are fit for purpose – experience from the fire.
7. Operating in assets at facilities owned by others.
8. Update on ASC Hub chairs workshop held in March [REDACTED]
9. [REDACTED] will provide slides for distribution containing an NC3Rs update.

### 4. Report from the NC3Rs Regional Programme Manager

#### 4.1. NC3Rs Summer School

- 4.1.1. The Summer School has chosen 4 students from Manchester out of 11 applications.
- 4.1.2. 4 students have also been chosen from the University of Liverpool and Sheffield University.
- 4.1.3. The event will take place on 18-20 July [REDACTED] in Manchester.

#### 4.2. Experimental Design Workshop

- 4.2.1. [REDACTED] and [REDACTED] spoke briefly about the workshop they attended. A more detailed discussion will take place at a future AWERB meeting.
- 4.2.2. [REDACTED] is more than happy to help individuals who are interested in using the software should they like assistance on how to complete their reports.

### 5. Licences processed from 29/03/2018 to 24/05/2018

#### 5.1 Amendments to Project Licences

The following amendments were approved by the executive committee.

- 5.1.1 [REDACTED], Preclinical Evaluation of Cancer Therapeutics (change of PPL Holder)
- 5.1.2 [REDACTED], Anti-Cancer Therapies & Biomarkers
- 5.1.3 [REDACTED], Neural Basis of Tactile Behaviour.
- 5.1.4 [REDACTED], Cancer Biology Including Host Immunity in Zebrafish.

## 5.2 Amendments to Project Licence [REDACTED]; Generation, Breeding and Maintenance of Genetically Altered Rodents

The following amendments were approved by the executive committee.

- 5.2.1 [REDACTED] To Generate a PrRP-mCherry Mouse Model
- 5.2.2 [REDACTED] To Generate a Qrfp-mCherry Mouse Model
- 5.2.3 [REDACTED] To Generate a Neurog2<sup>Em1Uman</sup> Mouse Model
- 5.2.4 [REDACTED] To Generate a Hes1-Venus Mouse Model
- 5.2.5 [REDACTED] To Generate a C57BL/6J Col4a1<sup>Em1Uman</sup> Mouse Model
- 5.2.6 [REDACTED] To Generate an FL/FRT TgCog Mouse Model

## 5.3 Amendments to Project Licence [REDACTED], Breeding and Maintenance of Genetically Altered Rodents

The following amendments were approved by the executive committee.

- 5.3.1 [REDACTED], Change of PPL Holder (new PPL [REDACTED])

## 5.4 Amendments to Project Licence [REDACTED], Generation & Breeding of Genetically Altered Rodents

The following amendments were approved by the executive committee.

- 5.4.1 [REDACTED], To Generate a Ly6dtm1<sup>(cre/ERT2-Tomato)</sup>EB Mouse Model Using CRISPR.

## 5.5 Applications for New Project Licences

- 5.5.1 [REDACTED], 'Identifying New Therapies to Prevent Internal Scarring'

**Considered:** A completed AWERB application and the PPL application.

**Interviewed:** [REDACTED]

**Feedback provided to applicant:**

During the Committee it was established that:

- The members of AWERB remarked on what they thought was an excellently written NTS.
- The applicant explained the use of a synthetic mesh as a control measure in response to questions on if a less traumatic control measure could be used. In [REDACTED] experience, the less traumatic control measures, such as a

midline incision, are unlikely to cause adhesions and therefore cannot be used as controls. The synthetic mesh will be compared to the new hydrogel implant material.

- [REDACTED] is committed to publishing in open access journals.
- Male and female animals will be used.
- All adhesions in the animals are removed.

Before ethical approval can be granted, the Committee requires that your application is revised according to the following points:

- Section C, Benefits, p9: The statistics mentioned in the first section on clinical opportunity do not appear to tally. The applicant explained that this was due to the different sources of the values and the statistics from general surgeries were most relevant to her work. Please can these be updated.
- Aims and objectives of the study, p16: The committee asked for clarification on the “subjective assessment” of the adhesion tenacity and queried on the reproducibility of this. The applicant explained that the adhesion tenacity is measured on a machine which stretches the adhesion and provides a measurement, therefore this is an objective measurement. Furthermore, the composition of adhesions is examined through collagen histology which is an objective measurement. Please can this information be included in the application.
- The NTS requires minor changes in three areas:
  - Please use the term bacteria instead of bugs
  - Replace culled with humanely killed
  - Include in the fate of the animals section that all animals will be humanely killed as the end of the study
- Step 3 in Protocols 1, 2 and 3, should be amended to read “no more than 3 times a week” instead of up to 3 times a week.
- Alternative contacts should be added to the licence application in case you are not available.

**Outcome:** The study has provisional approval based on the applicant making the changes/clarifications listed above to the satisfaction of the Chair/AWERB.

## 5.6 Applications for Category B work

5.6.1 None

## 5.7 Applications for secondary availability for new or current project licences

5.7.1 None

## 5.8 Application for secondary availability for imaging purposes

- 5.8.1 [REDACTED], Murine Models of Cancer Progression & Therapy ([REDACTED])

## 5.9 Project Licences for review

- 5.9.1 None

## 5.10 Any other business

- 5.10.1 BSF review and AWERB recommendations. A mistake was highlighted on the recommendation table, in that the appointments are for 3 years fixed term, not 2. The recommendations will be discussed at a future AWERB meeting. The proforma will be circulated to AWERB members.
- 5.10.2 Labour Party Animal Welfare Plan. AWERB discussed that a response to this should be at a group level rather than from individuals. <https://labour.org.uk/issues/animal-welfare-plan/>
- 5.10.3 A brief discussion took place about the process for assessing amendments. This will be discussed further at a future AWERB meeting.
- 5.10.4 [REDACTED]  
[REDACTED]  
■ [REDACTED]  
■ [REDACTED]  
■ [REDACTED]
- 5.10.5 [REDACTED] has been asked to join a working group on non-technical project summaries by the European Animal Research Association. The communications and media manager from the European Animal Research Association noted that the University of Manchester has made more progress on this topic than other institutions.
- 5.10.6 AWERB members were made aware of the new Registrar, Secretary and Chief Operating Officer, [REDACTED].
- 5.10.7 The virtual tour of the BSF is complete and awaiting sign off by the Associate Vice President for Compliance, Risk and Research Integrity.

The next meeting will be on Thursday 12 July at 10am-1pm, in Room [REDACTED].

Dates of meetings for the 2018/2019 academic year are:

- 13th September 2018, [REDACTED]
- 8th November 2018, [REDACTED]
- 17th January 2019, [REDACTED]
- 14th March 2019, [REDACTED]
- 16th May 2019, [REDACTED]
- 4th July 2019, [REDACTED]