Assessment, Prevention and Alleviation of Pain and Distress in Laboratory Animals

16th to 18th July 2019
Comparative Biology Centre, Newcastle University, Medical School, Framlington Place, Newcastle Upon Tyne, NE2 4HH

Course tutors: PAF – Professor Paul Flecknell
JVR – Dr. Johnny Roughan
ML – Dr. Matt Leach
AM – Dr Amy Miller

Tuesday 16th July
10:00 Coffee and Registration
10:15 Introduction and use of iPads (PAF)
10:30 What is pain and distress? An introduction and overview of consciousness in animals, and a discussion of the lack of coherence between legislation, ethics, science and philosophy (PAF)
11:15 Pain and Nociception - practical physiology, just enough to appreciate the factors that influence pain and analgesic efficacy (PAF)
12:00 Measuring pain – research tools, practical approaches and current “state of the art” (JVR)
13:00 Lunch
13:45 Cage-side means of assessing Pain - Behavioural scoring, Rat (JVR)
14:00 Cage-side means of assessing Pain - Behavioural scoring, Mice (AM)
14:45 Analgesics - Practical Pharmacology – What drugs do we use, could we use, and how do they act? (Part 1) (PAF)
15:30 Tea
15:45 Problems of behaviour-based assessment (JVR)

16.30 Close
**Wednesday 17th July**

9:00  Cage-side means of assessing Pain - Behavioural scoring, Rabbits  (ML)

9.45  Pain Faces - what are they and why should we use them  (ML)

10:15  Scoring pain faces in mice - how to do it  (ML)

11.00  Coffee

11.15  Scoring pain faces in rats - how to do it  (ML)

11.45  Scoring pain faces in rabbits - how to do it  (ML)

12.15  Cage side assessment of pain and distress – what are we assessing and how do we do it?  (PAF)

13.00  Lunch

13:45  Practical Pharmacology – What drugs do we use, could we use, and how do they act?  (Part 2)  (PAF)

14.15  Problems in mouse pain management and potential solutions  (JVR)

14.45  Analgesics - what to give, when and how  (PAF)

15.30  Tea

15.45  Using analgesics in a research environment - problems and pitfalls  (PAF)  (PAF)

19:30  Dinner at “Peace and Loaf” Restaurant, 217, Jesmond Road, Newcastle
**Thursday 18th July**

09:00  Pain and distress during rodent euthanasia – what is current best practice?  
       (ML)

09.45  Problem solving – what analgesics for what procedures?  
       (PAF)

10:45  Coffee

11:00  Pain management in large animals  
       (PAF)

12:00  What do we know about pain and pain management in non-mammalian species?  
       (PAF)

13.00  Lunch

13.45  Problem solving – when science and welfare conflicts arise  
       (PAF)

14.45  Final discussions

15.00  Close