Addressing the needs for refinement in laboratory fish

26-28 April 2016

Weymouth, United Kingdom

Agenda

Day 1 – Anaesthesia/euthanasia: what do we know and what do we need to know?

13.00 – 13.30	**Registration and refreshments**
13.30 – 13.40	**Welcome and introduction** Stewart Owen, AstraZeneca (Chair)
13.40 – 14.00	**Results of NC3Rs survey on the use of zebrafish in research** Katie Lidster, NC3Rs
14.00 – 14:20	**Pain in laboratory fish** Lynne Sneddon, University of Liverpool
14:20 – 14.40	**Current practice on the appropriate use of anaesthesia** Carole Wilson, University College London
14.40 – 15.00	**Choice of anaesthetic** Gareth Readman, Plymouth University
15.00 – 15.20	**Use of ice** Nicola Goodwin, University of Cambridge & Wellcome Trust Sanger Institute
15.20 – 15.40	**Use of electric stunning** Jeff Lines, Silsoe Livestock Systems Ltd
15.40-16.00	**Coffee**
16:00 – 17:30	**Discussion - Best practice and future research**
17.30 – 17.40	**Closing remarks** Stewart Owen, AstraZeneca

Day 2 - Current practice, recent developments and future needs in laboratory fish monitoring

09.00 – 09.30	**Registration**
09.30 – 09.40	**Welcome and introduction** Rachel Hartnell, Cefas (Chair)
09.40 – 09.50	**Opening Remarks** Mark Prescott, NC3Rs
09.50 – 10.00	**Home Office perspective** Ian Mason, Home Office
10.00 – 10.30	**Current practices in large zebrafish facilities** Carole Wilson, University College London Claire Allen, University of Sheffield
10.30 – 11.00	**Current practices with other fish species** Gareth Readman, Plymouth University Samuel Roslyn, Cefas
11.00 – 11.20	**Coffee break**
11.20 – 12.10	**Plenary talk: Monitoring welfare of chickens** Marian Dawkins, University of Oxford
12.10-12.30	**Automated assessment of zebrafish health** Lynne Sneddon, University of Liverpool
12.30-12.50	**Monitoring welfare of harmful zebrafish mutants** Freek van Eeden, University of Sheffield
12.50 – 13.50	**Lunch**
13.50 – 14.10	**Cefas experimental facility virtual tour** Sarah-Jane Parker, Cefas
14.10 – 14.30	**Imaging systems for monitoring fish** Jeff Lines, Silsoe Livestock Systems Ltd
14.30 – 14.50	**Underwater cameras can refine monitoring of laboratory fish** David Verner-Jeffreys, Cefas
14.50 – 15.00	**Briefing for break out groups** Ioanna Katsiadaki, Cefas
15.00 – 15.20	**Coffee break**
15.20 – 17.00	Breakout group 1: **Individual versus population monitoring for fish** Breakout group 2: **Visual means for monitoring** Breakout group 3: **Other means for monitoring**
17.00 – 17.30	**Reporting of groups**
17.30~	**Meeting Close and Dinner**

Day 3 - Current practice and recent developments in laboratory fish housing and care

09.00 – 09.30	**Registration**
09.30 – 10.00	**Home Office perspective with reference to breeding genetically altered fish** Ian Mason, Home Office
10.00 – 10.20	**"Appropriate" environmental conditions and potential welfare outcomes** Tim Ellis, Cefas
10.20 – 10.40	**Zebrafish specific issues/practices** Greg Paull, University of Exeter
10.40 – 11.00	**Trout responses to environmental changes** Ioanna Katsiadaki, Cefas
11.00 – 11.20	**Coffee break**
11.20 – 11.50	**3Rs resources and guidelines for zebrafish** Adrian Smith, Norecopa
11.50-12.10	**The importance of thermal choice in fish welfare: individual differences, behavioural and emotional fever** Sonia Rey Planellas, University of Stirling
12.10-12.30	**The 3Rs and aquaculture** Chris Noble, Nofima
12.30 – 13.30	**Lunch**
13.30 – 15.00	Breakout group 4: **Caring for zebrafish (including genetically altered fish)** Breakout group 5: **Can we define housing standards for other fish species?**
15.00 – 15.20	**Coffee break**
15.20 – 15.40	**Reporting of groups**
15.40 – 16.30	**Wash up and way forward**
16.30~	**Meeting Close**