

# Cross-fertilization between Neuroscience & Animal Welfare Science

14<sup>th</sup>-16<sup>th</sup> June 2021

*Day 1 – Monday 14<sup>th</sup> June 2021 (Time: GMT +1 British Summer Time)*

10:00 - 10:15	<b>Introduction</b>
10:15 - 10:45	Plenary Talk: Angela Roberts , Cambridge University, UK How to measure emotional states in animals and their underlying brain mechanisms.
10:45 - 11:00	Short Talk: Alice Dancer, Royal Veterinary College , UK Validating behavioural measures of boredom in laboratory ferrets using neuroscience.
11:00 - 11:15	Short Talk: Colline Poirier & Tom Smulders, Newcastle University, UK Hippocampal plasticity as a measure of enduring affective experience.
11:15 - 11:30	<b>Break</b>
11:30 - 12:00	Plenary Talk: Andrew Segerdahl, Oxford University Neuroimaging markers of chronic pain: targets for translation
12:00 - 12:15	Short Talk: Mathilde Coutant, Aarhus University, Denmark Capturing the emotional component of pain in piglets undergoing castration
12:15 - 12:30	Short Talk: Krista McLennan, University of Chester, UK Facial expression and emotional states.
12:30 - 13:30	<b>Lunch</b>
13:30 - 13:45	Introduction to Break-out groups
13:45 - 14:45	Break-out groups: Neural signatures of affective states (1) Dimensional approach; (2) Discrete approach
14:45 - 15:00	<b>Break</b>
15:00 - 15:30	Report and Theme discussion
15:30 - 16:30	One-to-one discussion

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Day 2 – Tuesday 15<sup>th</sup> June 2021 (Time: GMT +1 British Summer Time)

10:00 -10:05	<b>Introduction</b>
10:05 - 10:35	Plenary Talk: Yael Kuperman, Weizmann Institute of Science, Israel Stress induced and Metabolic Disorders: A tale of two diseases or a story of co-existence?
10:35 - 10:50	Short Talk: Michela Minero, Università degli Studi di Milano, Italy Assessment of the cognitive components of the affective states in sheep: what functional near-infrared spectroscopy (fNIRS) can tell us?
10:50- 11:05	Short Talk: Jason Yee, University of Veterinary Medicine Vienna, Austria Multimodal MRI in domestic pigs.
11:05 - 11:20	<b>Break</b>
11:20 -11:50	Plenary Talk: Francis McGlone, Liverpool John Moores University, UK Affective Touch has a Nerve.
11:50 - 12:05	Short Talk: Emma Tivey, The Roslin Institute, UK Evidence for sex differences in behavioural and neural correlates to tickling in young Wistar rats.
12:05 - 13:00	<b>Lunch</b>
13:00 - 13:10	Introduction to Break-out groups
13:10 - 14:10	Break-out groups: Neural basis of stress resilience
14:10 - 14:25	<b>Break</b>
14:25 - 14:55	Report and Theme discussion
14:55 - 15:55	One-to-one discussion
17:00 - 19:00	Social event/ECR

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*Day 3 – Wednesday 16<sup>th</sup> June 2021 (Time: GMT+1 British Summer Time)*

10:40 - 10:45	<b>Introduction</b>
10:45 - 11:15	Plenary Talk: Judith Homberg, Radboud University, The Netherlands The effect of sucrose consumption and genetic diabetes on the rat brain: Touchscreen-based cognitive testing and neuroinflammation.
11:15 - 11:30	Short Talk: Sarah Brown, Roslin Institute, UK The neuroimmune system and its role in animal welfare.
11:30 - 11:45	<b>Break</b>
11:45 - 12:00	Short Talk: Will Norton, University of Leicester, UK Quantifying the potential of skin swabbing as a refinement for DNA sampling of laboratory fish.
12:00 - 12:15	Short Talk: Aileen MacLellan University of Guelph, Canada Are high levels of inactivity in laboratory mice “depression-like”?
12:15 - 12:30	Short Talk: Lindsey Kitchenham, University of Guelph, Canada Neural Correlates of Cage-Induced Stereotypic Behaviours in Laboratory Mice
12:30 - 13:30	<b>Lunch</b>
13:30 - 13:40	Introduction to Break-out groups
13:40 - 14:40	Break-out groups: (1) Improving external validity of neuroscience experiments; (2) Assessing the impact of refinements in neuroscience experiments.
14:40 - 14:55	<b>Break</b>
14:55 - 15:25	Report and Theme discussion
15:25 - 16:00	General discussion (future directions, funding...)
16:00 - 16:45	One-to-one discussion