Laboratory Animal Science Association

26th - 28th November 2019
Annual Conference Programme

Tuesday 26th November			
	Home Office Updates *Arden* *Chair: Anne-Marie Farmer, University of Cambridge*		**Animal Science (Transgenic) Section; Advances in the Age of CRISPR Transgenics** *York* Chair: *Sarah Hart-Johnson, Francis Crick Institute*
10:00	ASRU Leadership Team *Will Reynolds, Head of ASRU*	10:00 10:10	Introduction *Sarah Hart-Johnson* Introductory lecture on History of Transgenic Production *Douglas Strathdee, Beatson Institute*
11:00	Coffee *Arden & York lecture rooms*		
11:30	**Continued…** Updates from the ASRU Team • ASPeL • Policy Updates • PPL assessments • Themed Inspections • Compliance *Kate Chandler, Giles Paiba, Martin Whiting & Kathy Ryder, Home Office*		**Continued…** *Chair: Natalia Moncaut, Cancer Research UK* 11:20 Advances in CRISPR design *Katharina Boroviak, Welcome Sanger Institute* 11:40 3-4 invited case studies *(TBC)*
12:30	Trade Exhibition Opening and Lunch *Palace - Exhibition Hall*		
	"Animals and us" *Arden* *Chair: Sue Sparrow, GSK*		**Continued…** *York* *Chair: Stuart Newman, PetMedix Ltd, Cambridgeshire*
13:30	Evaluating sentience, stress and welfare *Donald M. Broom, University of Cambridge*	13:30 13:50	Innovations in Crispr delivery *Ben Davies, Welcome Centre for Human Genetics* 3-4 invited case studies *(TBC)*

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14:15 14:45 15:15	Can two become one? The historical development of animal welfare and animal research, from the 1940s to the present *Robert Kirk, University of Manchester* The Animal Welfare Research Network (AWRN), membership, research findings and future vision *Poppy Statham, Animal Welfare Research Network* Q&A	14:50 15:10 15:30 16:00 16:20 16:30	Coffee *(served in York Lecture Room)* *Chair: Janet Kenyon, MRC Harwell* **Quirks of genotyping: allele verification & founder characterisation** *Gemma Codner, MRC Harwell* 3-4 invited case studies *(TBC)* *Chair: Sarah Hart-Johnson, Francis Crick Institute* **Ethics & breeding** *Hannah Wardle-Jones, University of Cambridge* Summary and close Close of session
15:30	Trade Exhibition and Tea *Palace - Exhibition Hall*		
16:00 - 16:30	**Home Office Updates** *Arden* *Chair: Anne-Marie Farmer, University of Cambridge* Ask the Home Office Inspector - Q&A Session *ASRU*		
16:45 - 17:45	**Keynote Speaker** *Arden* **'Humanising' mouse models to understand neurodegeneration** *Professor Elizabeth Fisher, University College London*		
18:00	**LASA's 57th Annual General Meeting** *York*		
19:30	Trade Reception and Dinner *Palace - Exhibition Hall*		

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Wednesday 27th November			
	"Snippets of Science" *Arden* *Chair: Bella Williams, UAR*		**3Rs** *Sponsored by AS-ET, York* *Chair: Robert Hubrecht, UFAW*
09:00	Harnessing Stem Cells *Eric Hill, Aston University*	09:30	Moving away from animal testing for acute inhalation toxicity testing *Emilie Da Silva, University of Denmark*
09:45	Imaging the liver using multiphoton microscopy; making the most of donated tissue *Scott Davies, University of Birmingham*	10:00	Non- invasive longitudinal evaluation of muscle mass changes in mice using a deep learning network for automated CT-derived skeletal muscle assessment *Ramon Langen, Maastricht University*
10:30	Trade Exhibition and Coffee *Palace – Exhibition Hall*		
	Continued... *Chair: Caroline Chadwick, University of Birmingham*		**Continued…** *Chair: Joanna Moore, GSK*
11:00	Zebrafish models of childhood leukodystrophy *Noémie Hamilton, University of Sheffield*	11:00	Animal welfare impact and feasibility of three commercially available nesting materials for laboratory mice *Charlotte Burn, Royal Veterinary College*
11:30	Large animal models for brain disease *Atticus Hainsworth, St George's University of London*	11:30	Does providing hiding spaces for zebrafish in large groups improve fish welfare or water quality? *Aleksandra Czeszyk, Royal Veterinary College*
12:00	Refining and replacing surgical techniques in oncology mouse models *Lisa Doar, Cancer Research UK*	12:00	Advances and refinements in surgical and perioperative care of animals undergoing telemetry implantations *Anthony Webb, Chiron Bioscience and Bryony Few, Charles River*
12:30	Trade Exhibition, lunch and poster judging, sponsored by Envigo. *Palace – Exhibition Hall*		

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	Education, Training and Ethics Section - From Experimental Design to Behavioural Change: how can we stop ruining a perfectly good idea? *Arden*		**3Rs** *Sponsored by AS-ET, York* *Chair: Robert Hubrecht, UFAW*
13:30	How not to ruin a good idea: lessons from tiny brains and other fundamentals *Manuel Berdoy, University of Oxford*	13:30	Developing a liver in vitro system that recapitulate homeostatic WNT driven zonation *Eider Valle-Encinas, Cardiff University*
13:40	Q&A – ask the audience	14:00	Acoustic vocalisation early response technologies (AVERT) *Liane Hobson, Medical Research Council Harwell*
13:55	Experimental design: the howlers journal editors see *Clare Stanford, University College London*	14:30	Inhalation anaesthesia and stereotactic injection of neonatal mice for investigation of brain function *Jake Watson, MRC Laboratory of Molecular Biology*
14:15	Experimental design and human behavioural change – 'A change management reflection on improving experimental design' *Natasha Karp, AstraZeneca*	15:00	3Rs refinement in non-human primates neuroscience research: A protective cap that supports wound healing after head implant surgery *Stuart Mason, University of Oxford*
15:30	Trade Exhibition and Coffee *Palace – Exhibition Hall*		
	Continued… *Arden*		**IAT Workshop – Preparation and organisation: a holistic approach to training** *York* *Adrian Woodhouse, Red Kite Veterinary Consultants Ltd*
16:00	A Toolkit for Behaviour Change Lou *Atkins, University College London, Australasian Hub, (recorded presentation)*	16:00	Introduction Knowing your audience Planning and delivery
16:45	Wrap-up *Elliot Lilley, RSPCA*		Assessment Conclusions and comments
17:00	Close of workshop	17:00	Close of workshop
20:00	Gala Dinner *Westminster Suite*		

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Thursday 28th November			
	Care and Welfare & RSPCA: Does Care and Welfare matter? *Arden* *Chair: Jordi Lopez-Tremoleda, QMUL*		**All creatures large and not so large!** *York* *Chair: Angela Kerton, The Learning Curve (Development) Ltd*
09:30	New developments on for investigating biofilm forming bacteria in guinea pigs and mice models *Julie Gould, Evotec*	09:30	Large animals on the bench, to transplant recipients at the bedside *Aravinda Page, University of Cambridge*
09:55	Refinement for studying communication in a songbird model using operant conditioning *Elisabeth Zanberg, QMUL*	10:00	Veterinary anaesthesia and the challenges in translational research *Henri Bertrand, University of Cambridge*
10:20	Zebrafish breeding systems functional but are they ethical? *Carole Wilson, UCL*	10:30	Equine herd management and welfare while under ASPA *Heather Ewence, The Animal Health Trust*
10:45	Practical Strategies to ensure provision of food and water in mice and rats *Sian Murphy, Sainsbury Wellcome Centre*		
11:00	Trade Exhibition and Coffee *Palace - Exhibition Hall*		
	Continued… *Arden* *Chair: Alison Ritchie, University of Nottingham*		**Continued…** *York* *Chair: Angela Kerton, The Learning Curve (Development) Ltd*
11:30	Update on the "AnimalNexus Rat Cage Height project" *Hibba Mazhary, University of Oxford*	11:30	How can we improve the application of the 3Rs to research involving non-model amphibians? *Lola Brookes, Zoological Society of London*
11:50	Determining if in-cage enrichment is beneficial to laboratory rodents *Claire Gibson, University of Nottingham*		
12:15	**Keynote speaker** *Arden* **Agricultural sustainability metrics based on land required for production of essential human nutrients** *Professor Michael Lee, University of Bristol*		

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13:00	Trade Exhibition and Lunch *Palace – Exhibition Hall*		
	Care and Welfare & RSPCA: Does Care and Welfare matter? Continued… *Arden* *Chair: Jordi Lopez-Tremoleda*		**Laboratory Animal Veterinary Association – Assessing the welfare of research animals** *York* *Chair: TBC*
14:00	Nudge, nudge, wink, wink: say no more... about getting people to consider refinements *Ian Devonshire, University of Nottingham*	14:00	Positive animal welfare: what does it add and what can it do to improve animal welfare? *Alistair Lawrence, Scotland's Rural College (SRUC), Edinburgh*
14:30	Round table discussion: "Does Care and Welfare matter? Challenges for innovation and implementation" Panel Members include: • RSPCA perspective *(Elliot Lilley, RSPCA)* • NVS perspective *(Jordi Lopez-Tremoleda)* • Academic perspective *(Claire Gibson, University of Nottingham)* • NTCO *(Ian Devonshire, University of Nottingham)* • Funder/Trade Partner *(TBC)* Interactive floor discussion, stimulating debate and incorporating time to "post your own challenges"	14:30	Potential use of infrared thermography in laboratory farm animals *Timm Konold, Animal and Plant Health Agency (APHA), Weybridge*
		15:00	Qualitative Behaviour Assessment as a welfare indicator in pigs *Françoise Wemelsfelder, Scotland's Rural College (SRUC), Edinburgh*
		15:40	Closing remarks
16:00	Meeting closes		