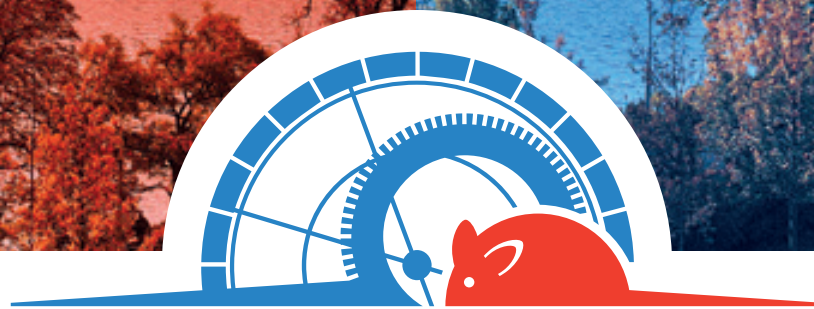




felasa clasa



14th felasa congress 2019

Prague, Czech Republic

June 10–13, 2019

ICLAS General Assembly – June 9, 2019

DETAILED PROGRAMME



LEGEND TO THE PROGRAMME

This programme is chronological, by session time slot. Each session and presentation has a code. This shows the stream to which the session belongs.

Abstract Book

The Abstract Book contains all abstracts for oral and poster presentations, key notes and workshops listed in alphabetical order according to the presentation code. The Abstract Book is available online, on the congress website and in the mobile application. The printed version is only available for those who asked for it during the registration procedure. Full papers resulting from sessions or presentations can be submitted to the Laboratory Animals journal that will be responsible for the peer review. A reference to the FELASA congress can be made in case of publication.

Session and presentation codes

1. Codes start with either the letter O or P. O stands for Oral presentation while P stands for Poster.
2. The second letter corresponds to the stream initial (A, B, C, D, E or F) or it identifies the session as a Key note presentation (K) or a Workshop run by an Exhibitor (WE; pre-registration recommended) or a Special event by invitation only (S).
3. Then a digit identifies the session or poster.
4. If this is followed by W, pre-registration to the workshop is recommended.
5. If the first digit is followed by an S, it indicates that the session is a Seminar opened to everyone and presentations are then coded and listed by chronological and alphabetical order thanks to a final digit.

Note that pre-registration is highly recommended for all sessions with a W or a WE in their code. If you have not managed to book yourself a seat, please come to the session's room 5 minutes before the start of the session and benefit from last minute cancellation.



Stream initials

A. Education and Training

This stream includes some sessions on animal user training, professional development (including a day focusing on animal technicians and carers), training delivery in practice, and how to make assessments a key part of a successful education scheme.

B. Reproducibility and Translation

This stream discusses animal research reporting and focuses on three aspects of the reproducibility conundrum: experimental design, genetic quality, and microbiota management.

C. Model Management

This stream details a wide range of key considerations for the development of a project: 3Rs implementation including the termination of severe suffering, pain management, and adapting animal husbandry to the latest advances.

D. Defining Good Care

This stream presents the latest working groups' recommendations to optimize husbandry and care. Topics include capture, transport, health monitoring and euthanasia of various species like rodents, farm animals, NHP and aquatics.

E. Compliance and Communication

This stream tackles the high-level challenges regarding legislation, openness and transparency, strength of ethics committees within institutions, LAS staff management, cooperation and 3Rs implementation.

F. Severity Classification

This stream is made of four half-day workshops on the classification and reporting of severity (one at introductory level, three at advanced level), one Q&A session opened to everyone, and one session focusing on the severity classification and refinements in aquatics.



SCIENTIFIC PROGRAMME

10:30 - 12:00 | Monday, June 10, 2019

South Hall 2 AB	OB1	Reproducibility: Introduction to the topic <i>Chaired by: Isabelle Desbaillets & Birgit Ledermann</i>
South Hall 3 AB	OB1S1	Reproducibility: "10% of the time it works every time" - Time to take stock <i>Glenn Begley</i>
	OB1S2	How standardization causes poor reproducibility in animal research <i>Hanno Würbel</i>
	OB1S3	Promoting transparency in preclinical research: Preregistration of animal studies on www.preclinicaltrials.eu <i>Wim de Leeuw</i>
South Hall 3 C	OE1	3R centres - Communication and cooperation <i>Chaired by: Gianni Dal Negro & Roberto Plasenzotti</i>
	OE1S1	Norecopa: Experiences with building 3R databases and international networks <i>Adrian Smith</i>
	OE1S2	Centro 3R: Progress and hurdles in implementing 3R teaching and research across Italian universities <i>Arti Ahluwalia</i>
	OE1S3	The Bridge Inbetween - 3R Centre Giessen - Interconnecting 3R Research <i>Stephanie Krämer, Peter Jedlicka</i>
	OE1S4	The Danish 3R Center - Initiatives and results <i>Peter Bollen</i>
	OE1S5	Outstanding research and education in Berlin leads to the "Capital of 3R" <i>Christa Thöne-Reineke</i>
	OE1S6	The Austrian 3R Centre - The progress of linking scientists and the 3Rs <i>Roberto Plasenzotti</i>
Chamber Hall	OB2	How humane is your endpoint? <i>Chaired by: Nuno Franco & Patricia Hedenqvist</i>
	OB2S1	Implementing humane endpoints in a mouse model of fatal neurodegenerative disease <i>Andrew Grierson</i>
	OB2S2	Humane endpoints in sepsis models <i>Susanne Drechsler</i>
	OB2S3	Humane endpoint - Concept and misconceptions <i>Aurora Brønstad</i>
	OB2S4	Humane endpoint - The designated veterinarian's perspective <i>Silke Glage</i>



10:30 - 12:00 | Monday, June 10, 2019

Club A	OD1	Quality Assurance in sourcing of ruminants and pigs <i>Chaired by: Jan Langermans & Patrick Hardy</i>
	OD1S1	Quality Assurance in sourcing of ruminants & pigs for research use <i>Patrick Hardy</i>
	OD1S2	Our journey to SPF sheep <i>Stephan Zeiter</i>
	OD1S3	Example of small ruminants' health monitoring <i>Fabienne Ferrara</i>
	OD1S4	Importance of piglet post-weaning stress and its interaction with the intestinal barrier function <i>Sara Traserra</i>

Club E	OC1	Imaging and innovations <i>Chaired by: Viktor Sykora & Ludek Sefc</i>
	OC1S1	The advanced methods for preclinical imaging of small laboratory animals <i>Ludek Sefc</i>
	OC1S2	Interferon-beta Reporter Mice: An in vivo imaging tool for non-invasive Toll-Like Receptor stimulation studies <i>Stephanie Buchheister</i>
	OC1S3	Choice of anaesthesia is critical for revealing glucometabolic changes by functional brain imaging <i>Marion Bankstahl</i>
	OC1S4	In vivo imaging of tumour cell migration and metastasis <i>Evelyne Beerling</i>
	OC1S5	Using 3D imaging and AI to improve scientific and 3R outcome in cancer research <i>Juan Delgado</i>

Club C	OS1	FELASA ABET 10-12pm The ABC of standards of education and training in Europe <i>Chaired by: Ismene Dontas & Marcel Gyger</i>
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13:00 - 14:00 | Monday, June 10, 2019

Congress Hall	OK1	Opening Key Note Alternative methods: myths and reality in a global rapidly-changing landscape <i>Gianni Dal Negro</i>
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**14:00 - 15:30 | Monday, June 10, 2019**

Congress Hall	OB3	Thermoneutrality and other impacts of physiology on experimental design <i>Chaired by: Timo Nevalainen & Jussi Helppi</i>
	OB3S1	Hot topics & heated debates: Impact of animal husbandry environments on rodent thermoregulation <i>Claire Hankenson</i>
	OB3S2	Metabolic consequences of individual housing in male C57Bl/6J mice after weaning <i>Lidewij Schipper</i>
	OB3S3	Diurnal rhythm and design <i>Timo Nevalainen</i>
	OB3S4	African mole-rats: A new model of laboratory animals entering the scene <i>Radim Sumbera</i>
South Hall 2 AB	OA1	Education in animal experimentation: Innovations for promoting a culture of care <i>Chaired by: Marcel Gyger & Jordi Lopez-Tremoleda</i>
South Hall 3 AB	OA1S1	How do we currently view teaching a “Culture of Care”? Introduction & feedback <i>Angela Kerton</i>
	OA1S2	Research culture, learning trends and education in animal studies <i>Nikki Osborne</i>
	OA1S3	Engaging staff in animal welfare <i>Beth Greenhough</i>
	OA1S4	Educating animal welfare <i>Saskia Arndt</i>
South Hall 3 C	OE2	Wild animals: 3Rs, project authorisation and severity classification <i>Chaired by: Martje Fentener van Vlissingen & Adrian Smith</i>
	OE2S1	Fundamental and diverse: Insights to biological rhythms from studying wild species <i>Barbara Helm</i>
	OE2S2	Research and management of wild animals: Politics, ethics and the 3Rs <i>Adrian Smith</i>
	OE2S3	Wild at heart: Improving fish welfare in regulated procedures in the wild <i>Stuart Hetherington</i>

Thursday, June 13

Wednesday, June 12

Tuesday, June 11

Monday, June 10



14:00 - 15:30 | Monday, June 10, 2019

Chamber Hall	OD8	Transport of lab animals <i>Chaired by: Martina Dorsch & Nicolas Dudoignon</i>	
	OD8S1	Our team journey towards a safe and humane transport of laboratory animals <i>Nicolas Dudoignon</i>	
	OD8S2	Considerations about animal transportation across EU <i>Kirk Leech</i>	
	OD8S3	International harmonization of zebrafish shipping regulations is essential for fish survival and welfare <i>Zoltan Varga</i>	
	OD8S4	FELASA Working Group on capture and transport of cephalopods "FELASA WG-CTCephs" <i>Viola Galligioni</i>	
	OD8S5	Discussion on how to move transport forward <i>All of the above</i>	
Club A	OD2	Pain management in large animal translational research models <i>Chaired by: Jan Langermans & Eddie Clutton</i>	
	OD2S1	Pain management in large animal translational research models; Problems <i>Eddie Clutton</i>	
	OD2S2	Anaesthesia and analgesia protocol for a pig thoracotomy model <i>Alessandra Bergadano</i>	
	OD2S3	Anaesthesia and analgesia for pregnant sheep models of preterm birth <i>Gabrielle Musk</i>	
Club E	OWE1	Predictive models for assessment of anti-tumor efficacy of innovative drugs	+++ ENVIGO
Club C	OF1W	FELASA Workshop on Classification and Reporting of Severity – Introductory session - part 1 <i>David Anderson, Dolores Bonaparte, Ana Criado, Anne-Dominique Degryse, Delphine Denais-Lalieve, David Smith</i>	
Club H	OB14W	Reproducibility: Dissection of publications <i>Chaired by: Isabelle Desbaillets & Glenn Begley</i>	
	OB14W1	How to recognise sloppy science <i>Glenn Begley</i>	

**16:15 - 17:45 | Monday, June 10, 2019**

Congress Hall	OD12	ICLAS Awards <i>Chaired by: Ana Santos & Patri Vergara</i>
	OD12S1	Muhlbock-Nomura Award: Experiences in lab animal diagnostics from 1982 to the present <i>Bill Shek</i>
	OD12S2	Bennet Cohen Award: Whole animal perspectives, ethical challenges and 3R enhancement using the five domains <i>David Mellor</i>
South Hall 2 AB	OA2	Accreditation of E&T in Europe and beyond <i>Chaired by: Ismene Dontas & Marcel Gyger</i>
South Hall 3 AB	OA2S1	The FELASA accreditation scheme according to the Directive 2010/63/EU: 2014-2019 <i>Marcel Gyger</i>
	OA2S2	The GV-SOLAS accreditation scheme of laboratory animal science courses <i>Sarah Kimmina</i>
	OA2S4	Something old, something new and something blue - FELASA accreditation in aquatic organisms <i>Almut Köhler</i>
	OA2S5	Role of AFLAS and its constituent associations in education and training in Asia region <i>Arvind Ingle</i>
	OA2S6	Sustainable laboratory animal sciences education and training for researchers; Lessons from the emerging world <i>David Lewis</i>
South Hall 3 C	OE3	Ethics committee and 3R implementation: Internal challenges and AWB strength <i>Chaired by: Boris Jerchow & Anna Olsson</i>
	OE3S1	Animal welfare bodies: Challenges and strengths - A round table discussion <i>Tania Boden, Andy Grierson, Jan-Bas Prins</i>
	OE3S2	The beyond animal testing index: How to assess your institute's contribution to the 3Rs? <i>Jan-Bas Prins</i>



16:15 - 17:45 | Monday, June 10, 2019

Chamber Hall	OD4	Aquatic husbandry - Hot topics <i>Chaired by: J-P Mocho & Livia D'Angelo</i>
	OD4S1	Housing and husbandry of zebrafish: The contribution of the FELASA Working Group <i>Livia D'Angelo</i>
	OD4S2	Fishes are not wet mice: How to establish a fish facility fulfilling welfare requirements <i>Xavier Warot</i>
	OD4S3	Characterization of zebrafish post-embryonic development under defined husbandry conditions <i>Ana Borges</i>
	OD4S4	Challenges in the maintenance and breeding of wild zebrafish in a laboratory environment <i>Anita Rácz</i>
Club A	OD3	Outcomes of the farm animal working group - Applications to health monitoring <i>Chaired by: Martina Dorsch & Corina Berset</i>
	OD3S1	FELASA Working Group on Farm Animals: Outcome <i>Corina Berset Fabienne Ferrara</i>
	OD3S2	Questionnaires for farm animal users in biomedical research <i>Corina Berset Fabienne Ferrara</i>
	OD3S3	Roundtable on the outcome of the FELASA Working Group on Farm Animals <i>Corina Berset</i>
Club E	OWE3	Better research through better reporting and reproducibility 
Club C	OF1W	FELASA Workshop on Classification and Reporting of Severity – Introductory session - part 2 <i>David Anderson, Dolores Bonaparte, Ana Criado, Anne-Dominique Degryse, Delphine Denais-Lalieve, David Smith</i>
Club H	OE9W	Making openness a reality <i>Chaired by: Belén Pintado & Bella Williams</i>
	OE9W1	Making openness a reality <i>Thierry Decelle, Wendy Jarrett, Javier Guillén, Andreas Lengeling, Stuart Leland</i>
	OE9W2	Towards an 'Openness Statement' for Australia and New Zealand <i>Malcolm France</i>

**8:00 - 9:30 | Tuesday, June 11, 2019**

Thursday, June 13	South Hall 2 AB	OC4	Ending severe suffering - Where are we now? <i>Chaired by: Nuno Franco & Barney Reed</i>
Wednesday, June 12	South Hall 3 AB	OC4S1	Ending severe suffering - Where are we now? <i>Barney Reed</i>
		OC4S2	Acceptability of severe experiments in the mind-set of trainee laboratory animal users <i>Nuno Franco</i>
		OC4S3	Ending severe suffering - A view from a regulator <i>Kathy Ryder</i>
		OC4S4	Prospective severity classification of severe procedures - A Dutch perspective <i>Peternella Suzanne Verhave</i>
		OC4S5	The scientific need to avoid uncontrolled and unalleviated suffering <i>Larry Carbone</i>
Tuesday, June 11	South Hall 3 C	OE4	Review of Directive - Progress with recommendations <i>Chaired by: Belén Pintado & Susanna Louhimies</i>
Monday, June 10		OE4S1	Review of Directive 2010/63/EU <i>Susanna Louhimies</i>
		OE4S2	Pharmaceutical industry efforts to work on Directive 2010/63/EU review recommendations <i>Kirsty Reid</i>
		OE4S3	Directive 2010/63/EU as a driver towards the “full replacement of procedures on live animals” <i>Luisa Bastos</i>
		OE4S4	Round table <i>All of the above</i>
	Chamber Hall	OD5	Aquatic husbandry: Challenges of multi-species facilities <i>Chaired by: J-P Mocho & Livia D’Angelo</i>
		OD5S1	Cephalopods and the Directive 2010/63/EU: Species-specific minimum requirements for care and accommodation <i>Graziano Fiorito</i>
		OD5S2	Description of husbandry and health programs of a multi-species aquatic facility <i>Nuno Pereira</i>
		OD5S3	Breeding and maintenance of <i>Nothobranchius furzeri</i> : A story about constant improvement during fourteen-years’ experience <i>Alessia Montesano</i>
		OD5S4	Fishing in the Dark - Working with cavefish (<i>Astyanax mexicanus</i>) <i>Diana Baumann</i>



8:00 - 9:30 | Tuesday, June 11, 2019

Club A	OA3	CPD and Post-graduate qualifications for vets and managers <i>Chaired by: Ismene Dontas & Anne-Dominique Degryse</i>
	OA3S1	Why quality assurance of veterinary training is so important? <i>Despoina Iatridou</i>
	OA3S2	How do you become an ECLAM diplomate? <i>Patricia Hedenqvist</i>
	OA3S3	Institute for Laboratory Animal Management - A unique learning experience! <i>Jussi Helppi</i>
	OA3S4	Education, training and Continuing Professional Development activities in Laboratory Animal Science in South Africa <i>Bert Mohr</i>
Club E	OC2	Management of home cage environment <i>Chaired by: Martje Fentener van Vlissingen & Viktor Sykora</i>
	OC2S1	Importance of the olfactory environment in welfare of the laboratory animals <i>Sandor Fekete</i>
	OC2S2	Effects of spraying gloves with alcohol on mouse behaviour before, during and after handling <i>Noelia Lopez-Salesansky</i>
	OC2S3	Strain dependent behavioural responses of female mice to urine of antigen-treated males <i>Evgenii Zavjalov</i>
	OC2S4	Effects of cage density and sanitization frequency on animal welfare <i>Jamie Naden</i>
	OC2S5	Comparison of laboratory rat behaviour and welfare in two different cage housing conditions <i>Joanna Moore</i>
	OC2S6	Using epidemiology to approach aggression in group housed mice <i>Eelin Weber</i>
Club C	OF2W	Classification and Reporting of Severity Workshop – Dealing with complex, challenging and uncommon models (part 1) <i>David Anderson, Dolores Bonaparte, Ana Criado, Anne-Dominique Degryse, Delphine Denais-Lalieve, David Smith</i>
Terrace 2A	OE7W	The 10 steps to institutional transparency on animal research <i>Chaired by: Hanna-Marja Voipio & Kirk Leech</i>
	OE7W1	The 10 steps to institutional transparency on animal research <i>Kirk Leech</i>

**10:15 - 11:45 | Tuesday, June 11, 2019**

Congress Hall	OE8	Management & Compliance <i>Chaired by: Jussi Helppi & Klas Abelson</i>
	OE8S1	Performance assessment that links the training and motivation together <i>Jussi Helppi</i>
	OE8S2	Study compliance liaison process and function <i>Gregory Reinhard</i>
	OE8S3	Diagnostic tool to assess the health of your animal care program <i>Denyse Levesque</i>
	OE8S4	How to survive a corporate animal welfare audit? <i>Gregory Reinhard</i>
South Hall 2 AB	OC5	Welfare assessment - Recognising severe suffering <i>Chaired by: Isabelle Desbaillets & Penny Hawkins</i>
South Hall 3 AB	OC5S1	Welfare assessment - Recognising and preventing severe suffering <i>Penny Hawkins</i>
	OC5S2	Welfare assessment as a tool to avoid severe suffering in mice and fish <i>Beat Riederer</i>
	OC5S3	Multifactorial severity assessment: Grading animal distress in a murine pancreatic cancer model <i>Simone Kumstel</i>
	OC5S4	Evaluation of animal distress in a cerulein-induced chronic pancreatitis animal model <i>Ahmed Abdelrahman</i>
	OC5S5	Severity Assessment after partial liver resection in rats <i>Leonie Ziegłowski</i>
South Hall 3 C	OE5	Promoting consistency in project evaluation <i>Chaired by: Anna Olsson & David Anderson</i>
	OE5S1	The Harm-Benefit Analysis: Towards an adequate and standardized methodology <i>Herwig Grimm</i>
	OE5S2	Promoting consistency in project evaluation <i>Kathy Ryder</i>
	OE5S3	Diversity in project evaluation <i>Anna Olsson</i>
	OE5S4	Why consistency in project evaluation is important <i>David Anderson</i>



10:15 - 11:45 | Tuesday, June 11, 2019

Chamber Hall	OD6	Fish health monitoring <i>Chaired by: J-P Mocho & Chereen Collymore</i>	
	OD6S1	Zebrafish health monitoring: Recommendations from the FELASA-AALAS Working Group <i>Chereen Collymore, Nuno Pereira, J-P Mocho</i>	
	OD6S2	Combination of direct and environmental PCR for analysis of diseased zebrafish in recirculating systems <i>Manuel Miller</i>	
	OD6S3	Overview of AKKAB and next target: Recommendations and guidelines for cleaning aquatic housing systems <i>Florian Kellner-Fendt</i>	
Club A	OA4	E-learning <i>Chaired by: Marcel Gyger & Andreia Costa</i>	
	OA4S1	Exploring active Learning: From flipped classroom to virtual reality <i>Xavier Laurent</i>	
	OA4S2	Laboratory Animal Science online training through the eyes of the learner: Perceptions of gains <i>Andreia Costa</i>	
	OA4S3	How can E-learning resources contribute to meeting the training requirements of EU2010/63? <i>Paul Flecknell</i>	
	OA4S4	Distance learning in vocational education and training - Collaboration between Sweden and South Africa <i>Emma Vodoti</i>	
Club E	OWE9	The real key to experiment success: Genetic stability over time	
Club C	OF2W	Classification and Reporting of Severity Workshop – Dealing with complex, challenging and uncommon models (part 2) <i>David Anderson, Dolores Bonaparte, Ana Criado, Anne-Dominique Degryse, Delphine Denais-Lalieve, David Smith</i>	
Terrace 2A	OWE4	Advances in operational and technical husbandry aspects in rodent gnotobiology	

**11:45 - 12:45 | Tuesday, June 11, 2019**

Congress Hall	OK2	Key Note Gut feelings about the brain: Rodent models of the Microbiome-Gut-Brain axis <i>John F Cryan</i>
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14:15 - 15:45 | Tuesday, June 11, 2019

Congress Hall	OC3	Husbandry: Welfare and reproducibility <i>Chaired by: Jussi Helppi & Hanna-Marja Voipio</i>
	OC3S1	Best practices for noise and vibration in the vivarium <i>Jeremy Turner</i>
	OC3S2	Is laboratory animal husbandry adequately reported in published articles? <i>John Chipangura</i>
	OC3S3	Do different caging systems affect the outcome of behavioural tests in C57BL/6J male mice? <i>Eleni Moltsanidou</i>
	OC3S4	Only the lonely and what to do about it <i>Wouter Florijn</i>
	OC3S5	Ideal male mouse group size: The best things come in threes <i>Paulin Jirkof</i>

South Hall 2 AB	OC6	Practical refinements of 'severe' suffering animal models and procedures <i>Chaired by: Ismene Dontas & Elliot Lilley</i>
South Hall 3 AB	OC6S1	The marginal gains concept: Shifting from disease models to mechanistic models <i>Elliot Lilley</i>
	OC6S2	How severe procedures have been refined in diabetes research <i>Thomas Bertelsen</i>
	OC6S3	Avoiding mortality in animal research and testing <i>Chris Lelliott</i>
	OC6S4	Severity assessment and pain management in the acute Cerulein-induced pancreatitis mouse model <i>Mattea Durst</i>
	OC6S5	Characterization of a novel technique to perform laminectomy in spinal cord injury rat model <i>Harikrishnan Vijayakumar Sreelatha</i>



14:15 - 15:45 | Tuesday, June 11, 2019

South Hall 3 C	OE6	Non-Technical Summary: Place for improvement <i>Chaired by: Martje Fentener van Vlissingen & Susanna Louhimies</i>	
	OE6S1	Focus on transparency - Non-technical project summaries under Directive 2010/63/EU <i>Susanna Louhimies</i>	
	OE6S2	How to consider non-technical summaries: Tolerance toll, translational task or transparency tool? <i>Istvan Gyertyán</i>	
	OE6S3	The ethical importance of transparency of non-technical summaries (NTS) <i>Tilo Weber</i>	
	OE6S4	A working group guidance document to improve the language and understanding of non-technical summaries <i>Javier Guillén</i>	
Chamber Hall	OD7	Euthanasia and anaesthesia in aquatics <i>Chaired by: J-P Mocho & Kristine von Krogh</i>	
	OD7S1	Update from the FELASA working group on methods of humane killing of laboratory fish <i>Kristine von Krogh, Robin McKimm, J-P Mocho, Juan Ramos</i>	
	OD7S2	Sedation and anaesthesia in research fish. Brief review and discussion <i>Nuno Pereira</i>	
	OD7S3	An overview of anaesthesia in cephalopods: Challenges towards a standardised protocol <i>Graziano Fiorito</i>	
Club A	OA5W	How to put the fun back into learning <i>Chaired by: Marcel Gyger & Angela Kerton</i>	
	OA5W1	How to put the fun back into learning? <i>Angela Kerton</i>	
Club E	OWE10	Maintaining a static microbiome across your research projects: Can it be done?	
Club C	OWE2	Challenges and best practises for cage reprocessing in your biomedical research facility	
Terrace 2A	OWE5	Opti Health Monitoring programs, enhancing the 3R and the 3E (efficiency, efficacy and expenses)	
Club H	OF5	Classification and Reporting of Severity - Interactive Q&A session <i>David Anderson, Dolores Bonaparte, Ana Criado, Anne-Dominique Degryse, Delphine Denais-Lalieve, David Smith</i>	

**16:30 - 18:00 | Tuesday, June 11, 2019**

Thursday, June 13	South Hall 2 AB	OC7	Refinements of Peri-operative care <i>Chaired by: Timo Nevalainen & Klas Abelson</i>
Wednesday, June 12	South Hall 3 AB	OC7S1	Analgesia in laboratory rodents - Current paradigm and future perspectives <i>Klas Abelson</i>
		OC7S2	Same old story? Same colour, same look but otherwise nothing is the same <i>Anja Petrie</i>
		OC7S3	Multimodal pain management with local anaesthesia - A chance for refining surgical mouse models? <i>Mattea Durst</i>
		OC7S4	Refining aseptic conditions in rodent surgeries: The way forward <i>Delphine Bouard</i>
Tuesday, June 11	South Hall 3 C	OD9	Implementation of a culture of care in various research environments <i>Chaired by: Heinz Brandstetter & Javier Guillén</i>
		OD9S1	Implementation of a Culture of Care and international recognition in the academic environment <i>Rob Floyd</i>
		OD9S2	Culture of Care in an AAALAC accredited, global Contract Research Organisation <i>Tim Jameson</i>
		OD9S3	Animal welfare standards and international collaborations <i>Kathryn Bayne</i>
Monday, June 10	Chamber Hall	OF6	Severity and refinements in aquatics <i>Chaired by: J-P Mocho & Almut Köhler</i>
		OF6S1	FELASA Working Group on Severity Classification - The problem of fish <i>Almut Köhler</i>
		OF6S2	Prospective Severity classification of scientific procedures in cephalopods: outcomes from a COST-Action FA1301 Survey <i>Graziano Fiorito</i>
		OF6S3	Refinements in disease modelling of zebrafish <i>Claire Allen</i>
		OF6S4	Identification of individual zebrafish: A refined protocol for VIE tagging whilst considering animal welfare <i>Anita Rácz</i>



16:30 - 18:00 | Tuesday, June 11, 2019

Club A	OA6	Practical skills <i>Chaired by: Ismene Dontas & Nicole Linklater</i>
	OA6S1	Teaching practical skills in LAS - Best practice approaches and the use of teaching aides <i>Nicole Linklater</i>
	OA6S2	“Start at the end and work backwards...” How do you assess competence in procedures? <i>Lucy Whitfield</i>
	OA6S3	Use of simulators in veterinary education can help to increase animal welfare <i>Mechthild Ladwig-Wiegard</i>
	OA6S4	Challenges and solutions to the delivery of training in practical skills in emerging countries <i>Philippe Bugnon</i>
Club E	OE10	Working together to tackle nowadays challenges <i>Chaired by: Belén Pintado & Martin Kuneš</i>
	OE10S1	Improving reproducibility and translation of animal research: The European Quality in Preclinical Data consortium <i>Thomas Steckler</i>
	OE10S2	Severity assessment in animal experimentation - Is that ethical? <i>Anne Zintzsch</i>
	OE10S3	Emotions and ethical decision-making in animal ethics committees <i>Helena Röcklinsberg</i>
	OE10S4	Aims and achievements of the Dutch National Platform of Animal Welfare Bodies <i>Daniela Salvatori</i>
	OE10S5	The Dutch foundation for public Information on animal research: SID <i>Martje Fentener van Vlissingen</i>
Club C	OB15	Clinical club goes viral <i>Chaired by: Jan Langermans & Marion Berard</i>
	OB15S1	The serendipitous discovery of a novel murine astrovirus (MuAstV2) with unusual properties <i>Neil Lipman</i>
	OB15S2	Detection methods for Murine Astrovirus in individually ventilated caging systems <i>Carolin Becher</i>
	OB15S3	Mouse Kidney Parvovirus: A newly characterized parvoviral pathogen of research mice <i>Cindy Besch-Williford</i>
	OB15S4	Persistence of Murine Parvoviruses after Embryo-Transfer: Addressing the problem via a novel qPCR assay <i>Ann-Kathrin Iwantschenko</i>
	OB15S5	Zebrafish Picornavirus: Surveillance for a novel viral pathogen of laboratory zebrafish <i>Cindy Besch-Williford</i>



16:30 - 18:00 | Tuesday, June 11, 2019

Terrace 2A	OC8	Rodent nutrition <i>Chaired by: Martina Dorsch & Graham Tobin</i>
	OC8S1	Kleiber's law: Help or hindrance <i>Graham Tobin</i>
	OC8S2	Defining accurate protein and amino acid requirements in laboratory rodents <i>Ricardo Afonso</i>
	OC8S3	Experimental diets - Challenges in rodent experiments <i>Annette Schuhmacher</i>
	OC8S4	Diet can affect data interpretation and reproducibility <i>Michael Pellizzon</i>
	OC8S5	Dietary phytoestrogen disrupts the breeding output of mice although the embryo quality remains unaffected <i>Jussi Helppi</i>
Club H	OS8	Severity workshop trainers meeting <i>David Anderson, Dolores Bonaparte, Ana Criado, Anne-Dominique Degryse, Delphine Denais-Lalieve, David Smith</i>

Thursday, June 13

Wednesday, June 12

Tuesday, June 11

Monday, June 10



8:00 - 9:30 | Wednesday, June 12, 2019

South Hall 2 AB	OD10	Rodent health monitoring: Round table on Exhaust Air Dust testing <i>Chaired by: Marion Berard & Ken Henderson</i>
South Hall 3 AB	OD10S1	Intro <i>Ken Henderson</i>
	OD10S2	How we convinced ourselves of replacing sentinels by exhaust air particle polymerase chain <i>Markus Brielmeier</i>
	OD10S3	Health monitoring of murine infectious agents via exhaust air particles <i>Esther Mahabir-Brenner</i>
	OD10S4	Improving our health monitoring program by Exhaust Air Dust sampling <i>Alberto Gobbi</i>
	OD10S5	Detection of lymphocytic choriomeningitis virus (and other agents) with filter media in IVC racks <i>Dagmar Schäfer</i>
	OD10S6	Round table <i>All of the above</i>
South Hall 3 C	OB4	Aid to animal experimental design <i>Chaired by: Beat Riederer & Merel Ritskes-Hoitinga</i>
	OB4S1	LA-day, on Lab animal research reporting <i>Beat Riederer</i>
	OB4S2	Systematic reviews of preclinical studies <i>Merel Ritskes-Hoitinga</i>
	OB4S3	PREPARE before you ARRIVE: Good reporting relies on good planning <i>Adrian Smith</i>
	OB4S4	Supporting animal welfare bodies/ethics committees with experimental design using the Experimental Design Assistant <i>Emma Stringer</i>
	OB4S5	Experimental design, robustness and the 3Rs <i>Boris Jerchow</i>

**8:00 - 9:30 | Wednesday, June 12, 2019**

Chamber Hall	0A7	Harmonisation of education, training and CPD for laboratory animal caretakers and technicians <i>Chaired by: Marcel Gyger & Ken Applebee</i>	
	0A7S1	Introduction of the FELASA-EFAT Working Group <i>Klas Abelson</i>	
	0A7S2	National education schemes for animal caretakers and technicians: IAT <i>Glyn Fisher</i>	
	0A7S3	The dual vocational training in Germany - A blessing and a curse? <i>Paul Pohlig</i>	
	0A7S4	Education schemes for animal caretakers and technicians in Scandinavia <i>Lene Gorm Pedersen</i>	
	0A7S5	Contribution of AFSTAL in the education and training of technicians in France and around <i>Samuel Vidal</i>	
	0A7S6	Questions for speakers and quiz for attendees <i>Ken Applebee</i>	
Club A	0B8	Genetic quality: Not only a question of breeding <i>Chaired by: Belén Pintado & Jan-Bas Prins</i>	
	0B8S1	Genetic quality assurance and genetic monitoring of laboratory murines. A FELASA working group report <i>Jan-Bas Prins</i>	
	0B8S2	Genome engineering using CRISPR/Cas9: What could go wrong? <i>Katharina Boroviak</i>	
	0B8S3	Genetic Monitoring Program: an ICLAS initiative <i>Ana Perez</i>	
Club E	0E15	Implementing culture of care: Industry initiatives and beyond <i>Chaired by: Kirsty Reid & Tania Boden</i>	
	0E15S1	Pharmaceutical company reflections on 'Culture of Care' when using animals in scientific research <i>Sally Robinson</i>	
	0E15S2	Quantification of the Culture of Care: Development of a corporate key performance indicator <i>Thierry Decelle</i>	
	0E15S3	Culture of Care - Time to switch from words to action <i>Susanna Louhimies</i>	



Simultaneous translation will be provided in Czech, French and German.



8:00 - 9:30 | Wednesday, June 12, 2019

Club C	OF3W	Classification and Reporting of Severity Workshop – Dealing with complex, challenging and uncommon Models (part 1) <i>David Anderson, Dolores Bonaparte, Ana Criado, Anne-Dominique Degryse, Delphine Denais-Lalieve, David Smith</i>
Terrace 2A	OC9	Refinements on NHP use <i>Chaired by: Jan Langermans & Caroline Bergmann</i>
	OC9S1	Visualizing in vivo host-pathogen interactions <i>Roger Le Grand</i>
	OC9S2	PET-CT tuberculosis imaging in non-human primates <i>Marieke Stammes</i>
	OC9S3	Stereotactic surgeries and MRI-guided convection-enhanced delivery (CED) into the striatum in Cynomolgus macaques <i>Jörg Luft</i>
	OC9S4	Novel model for activity and behaviour Assessment in freely moving, group-housed Macaques <i>Caroline Bergmann</i>

Thursday, June 13

Wednesday, June 12

Tuesday, June 11




Monday, June 10

**10:15 - 11:45 | Wednesday, June 12, 2019**

Congress Hall	OD11	FELASA: 40 years and beyond <i>Chaired by: J-P Mocho & Hanna-Marja Voipio</i>
	OD11S1	FELASA today and tomorrow - How can you contribute? <i>Ana Santos</i>
	OD11S2	Lessons learnt from the Workshop on Severity Classification and Reporting under Directive 2010/63/EU <i>Martina Dorsch</i>
	OD11S3	Joining forces to drive Laboratory Animal Science harmonization <i>Scott Mischler</i>
	OD11S4	The International Council for Laboratory Animal Science: Then, now, and looking forward <i>Cindy Pekow</i>
South Hall 2 AB	OB9	Dirty or clean mice - What is better for research? <i>Chaired by: Andre Bleich & Bettina Kräenzlin</i>
South Hall 3 AB	OB9S1	Dirty or clean mice - What is better for research? <i>Andre Bleich</i>
	OB9S2	Are ultra-clean SPF mice too much of a good thing? <i>Dietmar Zehn</i>
	OB9S3	Wild mice all over - Husbandry and science using wild house mice <i>Christine Pfeifle</i>
	OB9S4	Pathobionts, provocateurs, and the background microbiota - Contributions to the antigen-experienced mouse <i>Aaron Ericsson</i>
South Hall 3 C	OB5	Improving Animal Research Reporting <i>Chaired by: Beat Riederer & Nikki Osborne</i>
	OB5S1	Animal research reporting update: Where are we now? <i>Nikki Osborne</i>
	OB5S2	Gender bias in biomedical research <i>Jana Plevkova</i>
	OB5S3	Spreading the word? The role of the veterinary surgeon in Animal Research Reporting <i>Anja Petrie</i>
	OB5S4	Round table discussion: How to improve Animal Research Reporting <i>Nikki Osborne, Adrian Smith, Merel Ritskes-Hoitinga, Paulin Jirkof</i>



10:15 - 11:45 | Wednesday, June 12, 2019

Chamber Hall	OA8	Minimising pain, suffering, distress and long-lasting harm to animals in practice <i>Chaired by: Marcel Gyger & Ken Applebee</i>	
	OA8S1	Integrity, Communication And Respect Exemplifies ICARE <i>Tania Boden</i>	
	OA8S2	Problems and solutions in the performing with CO2 as a euthanasic agent in mice <i>Paul Pohlig</i>	
	OA8S3	A working example of murine cryopreservation and rederivation whilst maintaining aseptic technique <i>Stuart Newman</i>	
	OA8S4	Questions for speakers and quiz for attendees <i>Ken Applebee</i>	
Club A	OC10	Genetically Altered Animal colony management <i>Chaired by: Boris Jerchow & Emmanuel Gomas</i>	
	OC10S1	Efficient ways to responsibly use genetically altered laboratory rodents <i>Boris Jerchow</i>	
	OC10S2	Impact of recent technological updates on the 3Rs in high throughput mouse production <i>Brendan Doe</i>	
	OC10S3	Positive impact of 3Rs focused GAA rodent breeding <i>Emmanuel Gomas</i>	
	OC10S4	Refinement as an aid to improving breeding outcome <i>Aurelie Thomas</i>	
	OC10S5	Times up for tick-over colonies... <i>Stephen Woodley</i>	
Club E	OWE11	Understanding the laboratory Canine: Biology, behaviour, acclimation and training	
Club C	OF3W	Classification and Reporting of Severity Workshop – Dealing with complex, challenging and uncommon models (part 2) <i>David Anderson, Dolores Bonaparte, Ana Criado, Anne-Dominique Degryse, Delphine Denais-Lalieve, David Smith</i>	
Terrace 2A	OWE6	Technical solutions in cross-contamination, biosafety & related operational management	



Simultaneous translation will be provided in Czech, French and German.

**11:45 - 12:45 | Wednesday, June 12, 2019**

Congress Hall	OK3	FELASA Award Microbiological standardisation and health monitoring of laboratory rodents - Importance and aims <i>Werner Nicklas</i>
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14:15 - 15:45 | Wednesday, June 12, 2019

Congress Hall	OC13	3Rs in Action <i>Chaired by: Hanna-Marja Voipio & Heinz Brandstetter</i>
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OC13S1	Pioneering examples from the pharmaceutical sector of disseminating and progressing animal welfare initiatives <i>Thomas Bertelsen</i>
OC13S2	Are sham operations necessary in surgical kidney models? <i>John Atkinson</i>
OC13S3	Handling and training for less stressed laboratory rodents <i>Camilla Bengtsson, Marie Eriksson</i>

South Hall 2 AB	OB10	Microbiota and animal models <i>Chaired by: J-P Mocho & Marion Berard</i>
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South Hall 3 AB	OB10S1	Modelling microbial ecosystems of mammals: Current tools and challenges <i>Javier Pizarro Cerda</i>
	OB10S2	Towards understanding relevant host-microbiota-pathogen molecular interactions using the gnotobiotic Oligo-Mouse Microbiota twelve model <i>Claudia Eberl</i>
	OB10S3	Animal source and husbandry: Implications for model phenotypes in biomedical research <i>Aaron Ericsson</i>
	OB10S4	Microbiota composition influences the colitogenic effect of murine norovirus <i>Silvia Bolsega</i>

South Hall 3 C	OB6	Question Time to funders and publishers <i>Chaired by: Anna Olsson & Merel Ritskes-Hoitinga</i>
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OB6S1	How can we make research more responsible? <i>Nikki Osborne</i>
OB6S2	Ethics review of H2020 research projects <i>Anna Olsson</i>
OB6S3	A pharma's point of view <i>Srini Rao</i>
OB6S4	The publisher's perspective <i>Jennie Atkinson</i>
OB6S5	Animal Welfare Research – A Funder's Perspective <i>Huw Golledge</i>
OB6S6	Question time <i>Anna Olsson, Merel Ritskes-Hoitinga</i>



14:15 - 15:45 | Wednesday, June 12, 2019

Chamber Hall	OA9	Novel elements to the culture of animal (rodent) care <i>Chaired by: Timo Nevalainen & Ken Applebee</i>	
	OA9S1	Good practice in mouse handling <i>Jane Hurst</i>	
	OA9S2	Tube versus tail handling: No impact on spontaneous activity in C57BL/6J female mice detected <i>Martijn Bolderheij</i>	
	OA9S3	The transition from open-top conventional cages to individual ventilated cages (IVC) <i>Stephen Woodley</i>	
	OA9S4	Questions for speakers and quiz for attendees <i>Ken Applebee</i>	
Club A	OE13	GAA assessment in theory <i>Chaired by: Boris Jerchow & Anne Zintzsch</i>	
	OE13S1	Reporting requirements under Directive 2010/63/EU for Genetically Altered Animals (GAAs) <i>David Anderson</i>	
	OE13S2	How ought we to recognise and classify a genetic defect? <i>David Morton</i>	
	OE13S3	GA animals' welfare assessment: An interdisciplinary approach <i>Anne Zintzsch</i>	
	OE13S4	The International Society for Transgenic Technologies (ISTT) - fostering exchange <i>Branko Zevnik</i>	
Club E	OWE8	Sterilization systems for animal facilities	
Club C	OWE7	Development of hybrid health monitoring programs in laboratory rodent facilities	
Terrace 2A	OD15	Rehoming <i>Chaired by: Jan Langermans & Emilie Ecuér</i>	
	OD15S1	Recommendations for the rehoming of research animals: Implementation of a working group <i>Emilie Ecuér</i>	
	OD15S2	Rehoming of former laboratory primates; Dutch code of practice <i>Annet Louwerse</i>	
	OD15S3	Rehoming protocol for research dogs and cats at Ghent University in Belgium <i>Christel P. H. Moons</i>	
	OD15S4	Implementation of a three-part rehoming programme for dogs <i>Mirjam Roth</i>	
	OD15S5	Investigating the outcome of a laboratory dog rehoming programme in Ireland <i>Jane Lenehan</i>	

**16:30 - 18:00 | Wednesday, June 12, 2019**

Thursday, June 13	South Hall 2 AB	OB11	Gnotobiology - Focus on technology <i>Chaired by: Martina Dorsch & Patrick Hardy</i>
Wednesday, June 12	South Hall 3 AB	OB11S1	Impact of technological evolutions on global operational management and sterilization issues <i>Patrick Hardy, Elodie Pastre</i>
		OB11S2	Accessing gnotobiotic mouse models: Example of the centre for gnotobiology the Institut Pasteur <i>Marion Berard</i>
		OB11S3	Microbiota implantation and monitoring: New challenges, ongoing innovations and evolutions <i>Sylvie Rabot</i>
Tuesday, June 11	South Hall 3 C	OB7	Peer review challenges <i>Chaired by: Beat Riederer & Anna Olsson</i>
Monday, June 10		OB7S1	Ethics and sustainability in peer review <i>Anna Olsson</i>
		OB7S2	Review process and limits <i>Jennie Atkinson</i>
		OB7S3	The randomized block design and reproducibility in pre-clinical research <i>Michael Festing</i>
		OB7S4	The dilemma of the editor <i>Beat Riederer</i>
	Chamber Hall	OA10	Focus on welfare and quality of livestock species to be used in research <i>Chaired by: Timo Nevalainen & Ken Applebee</i>
		OA10S1	Training procedures for staff using farm animals for scientific purposes: Farm level, transport, slaughterhouse <i>Katerina Marinou</i>
		OA10S2	Minipigs: Vascular access and welfare <i>Adrian Zeltner</i>
		OA10S3	New world camelids: Implementation of the 3Rs in a research farm <i>Jonas Fünen</i>
		OA10S4	Large animal housing and welfare in containment facilities <i>Joe Garthwaite</i>
		OA10S5	Questions for speakers and quiz for attendees <i>Ken Applebee</i>



Simultaneous translation will be provided in Czech, French and German.



16:30 - 18:00 | Wednesday, June 12, 2019

Club A	OE14	GAA assessment in practice <i>Chaired by: Boris Jerchow & Anne Zintzsch</i>
	OE14S1	Revealing the full picture, how continuous and comprehensive phenotyping can inform severity assessment <i>Sara Wells</i>
	OE14S2	Evaluation of ultrasonic vocalization as a tool for assessing welfare state in mice <i>Camilo Medina</i>
	OE14S3	Severity assessment in zebrafish <i>Almut Köhler</i>
	OE14S4	Exchanging information on genetically altered animal welfare assessment: from theory to practice <i>Nikolaos Kostomitsopoulos</i>
Club E	OE11	Emotional labour <i>Chaired by: Heinz Brandstetter & Bella Williams</i>
	OE11S1	Emotional dissonance in animal research <i>Keith Davies</i>
	OE11S2	Preventing compassion fatigue through establishing a memory garden <i>Tim Jameson</i>
	OE11S3	Emotional labour, responsiveness and animal use <i>Bella Williams</i>
Club C	OE12W	NCs and AWBs: How to promote best practice <i>Chaired by: Anne-Dominique Degryse & David Anderson</i>
	OE12W1	National Committees and Animal Welfare Bodies under Directive 2010/63/EU <i>Susanna Louhimies</i>
	OE12W2	The UK Animals in Science Committee Animal Welfare and Ethical Review Body initiative <i>Sally Robinson</i>
	OE12W3	Animal Welfare Bodies in close collaboration with ethics committees in Belgium <i>Guy de Vroey</i>
	OE12W4	Animal Welfare Bodies and ethics committees: The French experience <i>Sandryne Bruyas</i>
	OE12W5	Networking to promote a Culture of Care <i>Thomas Bertelsen</i>
Terrace 2A	OWE12	Does relative humidity affect reproducibility of research?
	OWE12S1	Does relative humidity affect reproducibility of animal research?
	OWE12S2	The effect of controlled relative humidity on water intake of C57BL/6J mice

**9:00 - 10:30 | Thursday, June 13, 2019**

Forum Hall	0C11	Handling: Science and refinement <i>Chaired by: Timo Nevalainen & Jane Hurst</i>
	0C11S1	The evidence base for refined methods of handling mice <i>Jane Hurst</i>
	0C11S2	Does mouse handling method have an effect on reproduction of some sensitive inbred lines? <i>Tatjana Pirman</i>
	0C11S3	Tunnel handling of mice: Guidance to success <i>Pascalie Van Loo</i>
	0C11S4	Teaching of handling refinements <i>Philippe Bugnon</i>
South Hall 2 AB	0E17	Working together and globally <i>Chaired by: Jussi Helppi & Belén Pintado</i>
South Hall 3 AB	0E17S1	Comparison of university animal resource/research programmes in the European Union and the United States <i>Jann Hau</i>
	0E17S2	Meeting the challenges of animal research in a global context <i>Ann Turner</i>
	0E17S3	The tyranny of distance, challenges delivering quality animal care in Australia and New Zealand <i>Kiri Collins</i>
	0E17S4	Moving from crisis management to proactive communication of animal research <i>Rolf Zeller</i>
South Hall 3 C	0D13	NHP Husbandry and Care <i>Chaired by: Jan Langermans & Kevin Thibault-Duprey</i>
	0D13S1	Revised recommendations for health monitoring of non-human primate colonies (2019): FELASA Working Group update <i>Kevin Thibault-Duprey</i>
	0D13S2	Non-human primates: Recommendations for breeding strategy use of F2 generation and higher, self-sustaining colonies <i>Thierry Decelle</i>
	0D13S3	The road to success: Factors determining male introduction success in captive rhesus macaques <i>Astrid Rox</i>
	0D13S4	Monitoring social relationships in rhesus macaques <i>Claire Witham</i>
	0D13S5	Marmoset trends: Considerations and impact of introducing marmosets to a facility <i>Jacquelyn Stathopoulos</i>



9:00 - 10:30 | Thursday, June 13, 2019

Chamber Hall	OA11	Competency assessment <i>Chaired by: Ismene Dontas & Anna Olsson</i>
	OA11S1	Training the trainers - Ensuring standardisation and competency <i>Ian Garrod</i>
	OA11S2	What is a “good exam?”: Learning outcomes, education & assessment of students <i>Lucy Whitfield</i>
	OA11S3	How to set-up a good assessment in view of competence-driven education? <i>Marleen Eyckmans</i>
Club A	OB12W	Making experimental design education more effective <i>Chaired by: Nuno Franco & Gianni Dal Negro</i>
	OB12W1	Making experimental design education more effective <i>Derek Fry, Simon Bate</i>
Club C	OF4W	Classification and Reporting of Severity Workshop – Dealing with complex, challenging and uncommon models (part 1) <i>David Anderson, Dolores Bonaparte, Ana Criado, Anne-Dominique Degryse, Delphine Denais-Lalieve, David Smith</i>

**11:15 - 12:45 | Thursday, June 13, 2019**

Forum Hall	OC12	Managing behavioural models <i>Chaired by: Martje Fentener van Vlissingen & Jana Plevkova</i>
	OC12S1	What do we want our research animals to be? <i>Paul Honess</i>
	OC12S2	Complex interactions of age and test experience modulate the results of behavioural tests <i>Vanessa von Kortzfleisch</i>
	OC12S3	Benefits of using automated home-cage systems to study behaviour in group-housed CNS injury models <i>Jordi Lopez-Tremoleda</i>
	OC12S4	Sex specific model of chronic stress <i>Marta Balog</i>
	OC12S5	The importance of sex differences in cognitive behaviour studies <i>Sandor Fekete</i>
South Hall 2 AB	OD14	Euthanasia of rodents: Refinements and systematic review <i>Chaired by: Isabelle Desbaillets & Larry Carbone</i>
South Hall 3 AB	OD14S1	If not CO2, then what: does any alternatives qualify as a refinement? <i>Dan Weary</i>
	OD14S2	Welfare impacts of carbon dioxide for killing laboratory rodents: Evidence for CO2-induced anxiety/panic <i>Huw Golledge</i>
	OD14S3	Round table <i>All of the above</i>
South Hall 3 C	OE16	European Parliament Pilot Projects <i>Chaired by: Ana Santos & Susanna Louhimies</i>
	OE16S1	Development of learning outcomes and assessment tools to harmonise competence assessment throughout the EU <i>Anne-Dominique Degryse</i>
	OE16S2	E-learning resources to support training for project evaluation and project and procedure design <i>Paul Flecknell</i>
	OE16S3	Promoting the uptake of alternatives to animal testing through the development of eLearning tools <i>Merel Ritskes-Hoitinga</i>
	OE16S4	Advancing 3R education and training under a European Parliament Pilot study <i>Marcelle Holloway</i>



11:15 - 12:45 | Thursday, June 13, 2019

Chamber Hall	OA12W	Competency assessment workshop <i>Chaired by: Ismene Dontas & Anna Olsson</i>
	OA12W1	Are you skilled enough to work with animals? Measuring competencies using OSCE stations <i>Anna Olsson</i>
	OA12W2	Practical assessment situations, feedback and discussion <i>Anna Olsson</i>
Club A	OB13	Round table: Train the trainers on experimental design <i>Chaired by: Nuno Franco & Gianni Dal Negro</i>
	OB13S1	Can criterion-based interviews validate competence in designing animal experiments? <i>Ivo Tiebosch</i>
	OB13S2	Round table <i>Ivo Tiebosch, Derek Fry, Simon Bate</i>
Club C	OF4W	Classification and Reporting of Severity Workshop – Dealing with complex, challenging and uncommon models (part 2) <i>David Anderson, Dolores Bonaparte, Ana Criado, Anne-Dominique Degryse, Delphine Denais-Lalieve, David Smith</i>

12:45 - 13:15 | Thursday, June 13, 2019

Forum Hall		Closing Ceremony
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