

Program Overview

Tuesday, May 30

	12:00 - 13:45 Registration Opens
	Plenary Room
13:45 - 14:00	<u>Session 1</u> Opening Ceremony <i>Klas Abelson and Lene Bregnholt Larsen</i>
14:00 - 14:45	<u>Session 2</u> Karl Johan Öbrink memorial lecture <i>Lisbeth Høier Olsen</i>
	14:45 - 15:00 coffee break
15:00 - 17:00	Ethics on the use of animals for research <i>Peter Singer</i> <i>Mickey Gjerris</i>
	19:00 Welcome Reception

Wednesday, May 31

	Room 10, 12, 14
	Room 11, 13
	Room 15

09:00 - 10:15	<u>Session 3</u> Pain in Laboratory Animals <i>Klas Abelson</i> <i>Jeff Mogil</i> <i>Camilla Svensson</i>	<u>Session 5</u> Workshop: Designing and evaluating animal experiments <i>Axel Kornerup Hansen</i> <i>Jens Lykkesfeldt</i>	
10:15 - 10:45 coffee break			
10:45 - 12:00	<u>Session 6</u> Pain in Laboratory Animals <i>Sara Hestehave</i> <i>Mie Schou Berke</i> <i>Pernille Ebbesen</i>	<u>Session 7</u> The Use of Animals for Toxicology and safety <i>Zindy Raida</i> <i>Janne Koch</i>	<u>Session 8</u> Workshop: Designing and evaluating animal experiments <i>Axel Kornerup Hansen</i> <i>Jens Lykkesfeldt</i>
12:00 - 13:00 lunch			
13:00 - 14:45	<u>Session 9</u> The use of animals for CNS research <i>Pernille Tveden-Nyborg</i> <i>Hanna-Marja Voipio</i> <i>Poul Hyttel</i> The Use of Animals for Toxicology and safety <i>E.M. Vestergaard</i>	<u>Session 10</u> Animal Models <i>Janne Koch</i> <i>Thomas Thymann</i> <i>Manja Idorn</i> <i>Lars Svensson</i> <i>A. Randrup Thomsen</i>	<u>Session 11</u> The use of animals for research in inflammatory diseases <i>C. H. Friis Hansen</i> <i>Ulla-Marjut Jaakola</i> <i>Mattias von Herrath</i> <i>L. von Gersdorff</i> <i>Thóra B. Bödvarsdóttir</i> <i>Berit Ø. Christoffersen</i>
14:45 - 15:00 coffee break			
15:00 - 16:00 <u>Session 14</u> : Poster (Room 16 & East Lounge)			
16:00 - 17:30	<u>Session 12</u> Scand-LAS AGM Room 14 (16:00 - 17:00)	<u>Session 13</u> EARA AGM Invitation Lecture <i>Thomas Dantes</i>	
19:00 Exhibitor's Evening (Scandic Copenhagen exhibiting area)			

09:00 - 17:00 Workshop 1 - 3 ([Click here for details](#))

Thursday, June 01

	Room 10, 12, 14
	Room 11, 13
	Room 15

09:00 - 10:15	<p style="text-align: center;"><u>Session 15</u> Animal Welfare <i>Dorte Bratbo</i> <i>Bella Williams</i> <i>C. Juel Bundgaard</i> <i>Maria Valsjö</i></p>	<p style="text-align: center;"><u>Session 16</u> The use of animal models for the study of infectious diseases <i>Gregers Jungersten</i> <i>J. P. Christensen</i> <i>Louise Kruse Jensen</i></p>	<p style="text-align: center;"><u>Session 17</u> Species and Animal Model Selection <i>H. Duelund Pedersen</i> <i>K. de Lazari-Radek</i> <i>Jens Thing Mortensen</i> <i>Kristiane Barington</i></p>
10:15 - 10:45 coffee break			
10:45 - 12:00	<p style="text-align: center;"><u>Session 18</u> Animal Welfare <i>S. Andersen Nørgaard</i> <i>Karolina Westlund</i> <i>Sofie C.L. Hansen</i> <i>Jani Seppänen</i></p>	<p style="text-align: center;"><u>Session 19</u> Interactive and on-line teaching <i>Helle Stege, Rikke Langebæk, C. K. Nielsen</i> <i>Karl-Johan Møller Klit</i> <i>Camilla Sichlau Bruun</i> <i>C. Böttcher Jørgensen</i></p>	<p style="text-align: center;"><u>Session 20</u> The use of animals for the studies of lifestyle diseases <i>Kirsten Raun</i> <i>B. A. Holbech Jensen</i> <i>Stanislav Nagy</i></p>
12:00 - 13:00 lunch			
13:00 - 14:45	<p style="text-align: center;"><u>Session 21</u> The use of animals for research in cancer <i>Karin List</i> <i>Mikkel Green Terp</i> <i>Valentina Cianfanelli</i> <i>Stine Friis</i></p>	<p style="text-align: center;"><u>Session 22</u> Wildlife Research <i>Mads F. Bertelsen</i> <i>Tobias Wang</i> <i>Rolf Arne Ølberg</i> <i>Rune Dietz</i> <i>Catherine Williams</i></p>	<p style="text-align: center;"><u>Session 23</u> Systematic reviews of animal studies <i>Merel Ritskes-Hoitinga</i> <i>Birgitte Kousholt</i> <i>Adrian Smith</i> <i>Thomas Bertelsen</i></p>
14:45 - 15:15 coffee break			
15:15 - 17:00	<p style="text-align: center;"><u>Session 24</u> Improvement of animal studies <i>Lars Henning, Andrew Smith, Emrah Yatkin</i> <i>Patrick Hardy, Randi Lundberg, Massimo Foa</i></p>	<p style="text-align: center;"><u>Session 25</u> Biological Warfare & Military Research <i>Armin Elbers</i> <i>Carsten R. Simonsen</i> <i>S. Olga Magnusdottir</i> <i>Benedict Kjærgaard</i></p>	<p style="text-align: center;"><u>Session 26</u> Animal Research: Time to Talk <i>Kirk Leech</i> <i>Jan Ottesen</i> <i>Adrian Smith</i> <i>Kirsten R. Jacobsen</i></p>
19:00 Conference Dinner in Nose2Tail			

09:00 - 17:00 Workshop 4 - 8 ([Click here for details](#))

Friday, June 02

 Room 10, 12, 14

 Room 11, 13

09:00 - 10:15	<u>Session 27</u> Animal Training <i>Dorte Bratbo</i> <i>Annette Pedersen</i> <i>Zaco Sonne</i>	<u>Session 28</u> Humanized animal models <i>Axel Kornerup Hansen</i> <i>Cord Brakebusch</i>
	10:15 - 10:45 coffee break	
10:45 - 12:00	<u>Session 29</u> Animal Training <i>Karolina Westlund</i> <i>Camilla Bengtsson</i> <i>Dorte Bratbo</i>	<u>Session 30</u> Humanized animal models <i>A. Augustinus Larsen</i> <i>Randi Lundberg</i> <i>Michael A. Pellizzon</i>

Program - Tuesday May 30, 2017

- 12:00 -13:45 **Registration desk opens**
- Session 1** **Opening Ceremony**
Room: Plenary Room
13:45 -14:00 By Klas Abelson and Lene Bregnholt Larsen
- Session 2** **Karl Johan Öbrink memorial lecture**
Room: Plenary Room
Chair: Klas Abelson and Lene Bregnholt Larsen
- 14:00 -14:45 (S01) **Lisbeth Høier Olsen**, Department of Veterinary and Animal Sciences, University of Copenhagen: Refinement of cardiovascular porcine and canine research
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- 14:45 - 15:00 Coffee break in the exhibition area
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- Ethics on the use of animals for research**
Room: Plenary Room
Chair: Adrian Smith and Axel Kornerup Hansen
- 15:00 -16:00 (S02) **Peter Singer**, Princeton University, USA & University of Melbourne, Australia: Why we should reject speciesism, and what that means for laboratory animal research
- 16:00 -16:30 (S03) **Mickey Gjerris**, Department of Food and Resource Economics, University of Copenhagen: The lesser evil. Why respecting animals includes talking about guilt and remembrance
- 16:30 -17:00 Discussion and questions from the audience
- 19:00 **Welcome reception at University of Copenhagen**

Program - Wednesday May 31, 2017

08:30 - 17:00 **Registration desk opens**

Session 3 **Pain in Laboratory Animals**

Room: 10, 12, 14

Chair: Klas Abelson

09:00 - 09:05 **Klas Abelson**, Department of Experimental Medicine, University of Copenhagen, Denmark: Introduction

09:05 - 09:50 (S04) **Jeff Mogil**, Alan Edwards Centre for Research on Pain, McGill University, Montreal, QC: Pain in Mice and Man: Ironic Adventures in Translation

09:50 - 10:15 (S05) **Camilla Svensson**: Rodent models of joint pain: Lessons learned and potential ways forward

Session 5 **WORKSHOP: Designing and evaluating animal experiments**

Room: 15

Chair: Axel Kornerup Hansen

09:00 - 10:15 (S07) Workshop: **Axel Kornerup Hansen, Jens Lykkesfeldt** – Department of Veterinary and Animal Sciences, Faculty of Health and Medical Sciences, University of Copenhagen: Designing and evaluating animal experiments

10:15 - 10:45 Coffee break in the exhibition area

Session 6 **Pain in Laboratory Animals**

Room: 10, 12, 14

Chair: Klas Abelson

10:45 - 11:10 (V01) **Sara Hestehave**: Pain-related comorbidities in inbred rat strains

11:10 - 11:35 (V02) **Mie Schou Berke**: Refinement of Animal Models of Pain: evaluating the properties of buprenorphine alleviating pain without influencing model development in a monoarthritic pain model in rats

11:35 - 12:00 (V03) **Pernille Ebbesen**: Application of fentanyl patches for pain management in pigs

Session 7	The Use of Animals for Toxicology and safety Room: 11, 13 Chair: Aavo Lang
10:45 - 11:20	(S08) Zindy Raida , Novo Nordisk: 1. Safety in Drug Development: The Link Between Historical Medical Cases and Current Regulations
11:20 - 12:00	(S09) Janne Koch , LEO Pharma: In vitro and in vivo toxicity testing in the discovery phase of drug development with emphasis on the 3Rs

Session 8	WORKSHOP: Designing and evaluating animal experiments Room: 15 Chair: Axel Kornerup Hansen
10:45 - 12:00	(S07) Workshop: Axel Kornerup Hansen, Jens Lykkesfeldt – Department of Veterinary and Animal Sciences, Faculty of Health and Medical Sciences, University of Copenhagen: Designing and evaluating animal experiments

12:00 - 13:00 Lunch in the exhibition area

Session 9A	The use of animals for CNS research Room: 15 Chair: Pernille Tveden-Nyborg and Hanna-Marja Voipio
13:00 - 13:20	(S10) Pernille Tveden-Nyborg , Department of Veterinary and Animal Sciences, University of Copenhagen: Exploring the effects of vitamin C deficiency in brain development
13:20 - 14:10	(S11) Poul Hyttel , Department of Veterinary and Animal Sciences, University of Copenhagen: "Dementia in a dish – induced pluripotent stem cell-modeling of neurodegeneration"

Session 9B	The Use of Animals for Toxicology and safety Room: 15 Chair: Hanna-Marja Voipio
14:10 - 14:45	(S06) Ellen-Margrethe Vestergaard : 3Rs in safety testing of human and veterinary medicines

Session 10

Animal Models

Room: 11, 13

Chair: Janne Koch, LEO Pharma, Denmark

- 13:00 -13:10 **Janne Koch**, LEO Pharma, Denmark; Introduction
- 13:10 -13:34 (S12) **Thomas Thymann**, University of Copenhagen, Denmark: Comparative pediatrics, - the preterm neonatal piglet as a model
- 13:34 -13:58 (V04) **Manja Idorn**, Herlev University Hospital, Denmark: Mouse models in pre-clinical immune therapy research
- 13:58 -14:21 (V05) **Lars Svensson**, LEO Pharma, Denmark: In vivo models and translational platform in dermatological drug discovery
- 14:21-14:45 (S13) **Allan Randrup Thomsen**, University of Copenhagen, Denmark: Mice as model system to develop new vaccines for influenza

Session 11

The use of animals for research in inflammatory diseases

Room: 10, 12, 14

Chair: Camilla Hartmann Friis Hansen and Ulla-Marjut Jaakola

- 13:00 - 13:40 (S14) **Mattias von Herrath**, Novo Nordisk Type 1 Diabetes Research Center Seattle: The use of animal models for type 1 diabetes
- 13:40 - 14:05 (S15) **Louise von Gersdorff Jørgensen**, Department of Veterinary and Animal Sciences: Zebrafish as a model organism to study infectious diseases
- 14:05 - 14:30 (S16) **Camilla Hartmann Friis Hansen**, Department of Veterinary and Animal Sciences, University of Copenhagen: TL1A Regulates Microbial and Mucosal Immune Responses and Enables Metabolic Disease
- 14:30 - 14:45 (V06) **Thóra B. Bödvarsdóttir/Berit Ø. Christoffersen**: Optimization of Streptozotocin protocols for rodents and pigs and subsequent care and treatment of the animals

14:45 - 15:00 Coffee break in the exhibition area

Session 12 Scand-LAS AGM

16:00 - 17:00 Room: 14

Session 13 EARA AGM & Invitation Lecture

Room: 15

16:00 - 16:50 EARA AGM

16:50 - 17:30 (S17) Invitation Lecture by **Thomas Dantes**: The White Paper on Animal Research in the Max Planck Society – a Policy for Basic Research?

Session 14 Poster Session

Room: 16 and East Lounge

15:00 - 16:00 (P01-P16) displayed in Room 16
(P17-P26) displayed in East Lounge

19:00 Exhibitors' Evening at Hotel Scandic Copenhagen

Program - Thursday June 01, 2017

08:30 - 17:00 **Registration desk opens**

Session 15 **Animal Welfare**
Room: 10, 12, 14
Chair: Dorte Bratbo

09:00 -09:15 (S18) **Dorte Bratbo**, University of Copenhagen, Denmark: Animal welfare in laboratory animals - An introduction

09:15 -09:35 (V07) **Bella Williams**, Understanding Animal research, UK: A culture of care; animals, people and communication

09:35 -09:55 (S19) **Cathrine Juel Bundgaard**, Novo Nordisk, Denmark: A strategic department for 3R refinement

09:55 -10:15 (V08) **Maria Valsjö**, Karolinska Institutet, Sweden: Matching environmental enrichment

Session 16 **The use of animal models for the study of infectious diseases**
Room: 11, 13
Chair: Camilla Hartmann Friis Hansen and Aavo Lang

09:00 -09:35 (S20) **Gregers Jungersen**, National Veterinary Institute, Technical University of Denmark: Experimental pig studies of the effects of chronic inflammation on immune response to influenza; host responses to acute MRSA infection in the skin; and a new paradox in understanding of innate and adaptive immunological training

09:35 -09:55 (S21) **Jan Pravsgaard Christensen**, Department of Immunology and Microbiology, University of Copenhagen: Use of small animal models for investigation of immune response towards flavivirus infections with focus on yellow fever and zika virus infections

09:55 -10:15 (S22) **Louise Kruse Jensen**, Department of Veterinary and Animal Sciences, University of Copenhagen: Porcine models of biofilm infections

Session 17 Species and Animal Model Selection

Room: 15

Chair: Henrik Duelund Pedersen, Ellegaard Göttingen Minipigs, Denmark

09:00 - 09:18 (V09) **Henrik Duelund Pedersen**, Ellegaard Göttingen Minipigs, Denmark: Animal Use in Drug Discovery

09:18 - 09:37 (S23) **Dr. Katarzyna de Lazari-Radek**, Lodz University, Poland: Ethical review of animal studies with a focus on species and animal/disease model selection

09:37 - 09:56 (S24) **Jens Thing Mortensen**, GenMab, Denmark: Selection of Relevant Animal Species for Nonclinical Safety Testing of Biopharmaceutical Drugs

09:56 - 10:15 (V10) **Kristiane Barington**, University of Copenhagen, Denmark: Experimental bruises in pigs - estimating age and impact of force

10:15 - 10:45 Coffee break in the exhibition area

Session 18 Animal Welfare

Room: 10, 12, 14

Chair: Dorte Bratbo

10:45 - 11:10 (S25) **Sisse Andersen Nørgaard**, Novo Nordisk, Denmark: Softened food reduces weight loss in STZ-treated mice

11:00 - 11:20 (V11) **Karolina Westlund**, Karolinska Institute, Sweden: Enrichment and welfare in non-human primates

11:20 - 11:40 (V12) **Sofie C. L. Hansen**, Novo Nordisk, Denmark: Investigating social aggression in group-housed male mice

11:40 - 12:00 (V13) **Jani Seppänen**, Pharmatest Services Ltd., Finland: Estrogen adverse effects in immunodeficient mice

Session 19 Interactive and online teaching

Room: 11, 13

Chair: Helle Stege and Claus Bøttcher Jørgensen

10:45 - 10:55 (S26) **Helle Stege**, VetSchool, University of Copenhagen, Denmark: Introduction

- 10:55 - 11:05 (S27) **Rikke Langebæk**, Department of Veterinary Clinical Science, University of Copenhagen, Denmark: Flipped classroom/Blended learning
- 11:05 - 11:25 (S28) **Camilla Kirketerp Nielsen, Karl-Johan Møller Klit and Helle Stege**, VetSchool, University of Copenhagen, Denmark: Development, implementation and evaluation of game modules where students perform virtual herd visits and practice interdisciplinary skills in communication, diagnostics, procedures and problem solving (diseases, notifiable diseases and animal welfare)
- 11:25 - 11:35 (S29) **Camilla Sichlau Bruun and Claus Bøttcher Jørgensen**, VetSchool, University of Copenhagen, Denmark: Virtual laboratory (Labster). Supporting complex learning objectives in a veterinary genetics course using a virtual laboratory case
- 11:35 - 11:45 (S30) **Rikke Langebæk**, Department of Veterinary Clinical Science, University of Copenhagen, Denmark: Toy animal models for practical exercise in a stress-free environment
- 11:45 - 12:00 Questions, discussion and demonstrations

Session 20 **The use of animals for the studies of lifestyle diseases**

Room: 15

Chair: Stanislav Nagy and Anders Forslid

- 10:45 - 11:15 (S31) **Kirsten Raun**, Novo Nordisk A/S, Måløv, Denmark: The use of mammal animal models for studying type 2 diabetes
- 11:15 - 11:30 (S32) **Benjamin Anderschou Holbech Jensen**, Department of Biology, University of Copenhagen: Metabolic profiles are primarily controlled by housing strategy and not facility-specific gut microbial signatures
- 11:30 - 12:00 (S33) **Stanislav Nagy**, Department of Biology, University of Copenhagen,, Fruit flies as a research model: The use of *Drosophila melanogaster* for studying life style diseases

12:00 - 13:00 Lunch in the exhibition area

Session 21 **The use of animals for research in cancer**

Room: 10, 12, 14

Chair: Stine Friis and Siri Knudsen

- 13:00 - 13:45 (S34) **Karin List**, Wayne State University, USA:
Dissecting the role of cell surface serine proteases in carcinoma progression using genetic mouse models
- 13:45 - 14:05 (S35) **Mikkel Green Terp**, Institute of Molecular Medicine, University of Southern Denmark, Denmark:
Establishment and characterization of breast cancer PDX models
- 14:05 - 14:25 (S36) **Valentina Cianfanelli**, Cell Stress and Survival Unit, Danish Cancer Society Research Center, Denmark:
Addressing (or Exploiting) the link between autophagy and cell proliferation in the initiation and progression of lung cancer
- 14:25 - 14:45 (S37) **Stine Friis**, Department of Drug Design and Pharmacology, University of Copenhagen, Denmark:
Adenoma-to-carcinoma progression model for screening of colorectal cancer preventive treatments

Session 22 **Wildlife Research**

Room: 11, 13

Chair: Mads F. Bertelsen, Copenhagen Zoo, Denmark

- 13:00 - 13:17 (V14) **Mads F. Bertelsen**, Copenhagen Zoo, Denmark: Why do we need to "experiment" on wild animals?
- 13:17 - 13:34 (V15) **Tobias Wang**, University of Aarhus, Denmark: Why should we understand the high blood pressures in giraffes?
- 13:34 - 13:52 (V16) **Rolf Arne Ølberg**, Kristiansand Dyrepark, Norway: Short duration immobilization of walrus
- 13:52 - 14:10 (S50) **Rune Dietz**, Aarhus University, Denmark: ZOO animals serving studies of contaminants in free ranging wildlife
- 14:10 - 14:27 (V17) **Catherine Williams**, University of Aarhus, Denmark: Improving Anaesthesia and Post-operative welfare in Reptiles: Case studies in Snakes and Terrapins

14:27 - 14:45 (S38) **Carsten Grøndahl**, Copenhagen Zoo, Denmark: Immobilizing Musk Ox (*Ovibos moschatus*) in High Arctic Conditions

Session 23 Systematic reviews of animal studies

Room: 15

Chair: Birgitte Kousholdt

13:00 - 13:35 (S39) **Merel Ritskes-Hoitinga**, SYRCLE, Department for Health Evidence, Radboud University, Nijmegen, The Netherlands: SYRCLE: teaching, coaching, research and collaboration on systematic reviews of animal studies

13:35 - 13:55 (S40) **Birgitte Kousholt**, Department for Clinical Medicine, Aarhus University, Denmark: How to emphasize the 3Rs and research quality by establishing AUGUST at Aarhus University

13:55 - 14:25 (S41) Interactive session

14:25 - 14:35 (V18) **Adrian Smith**, Norecopa, Norway: PREPARE Guidelines

14:35 - 14:45 (V19) **Thomas Bertelsen**, Novo Nordisk A/S, Denmark: An international Culture of Care network

14:45 - 15:15 Coffee break in the exhibition area

Session 24 The use of animals for research in cancer

Room: 10, 12, 14

Chair: Stine Friis and Siri Knudsen

15:15 - 15:40 (S42) **Lars Henning**, The Finsen Laboratory, Rigshospitalet/BRIC, Denmark: A novel intracellular collagen degradation pathway have been discovered by using knock out mice and the therapeutic potential of targeting the involved receptors seems a promising novel anti-cancer strategy

15:40 - 15:55 (V20) **Andrew Smith**: "Are Callipers obsolete?"

Improvement of animal studies

Room: 10, 12, 14

Chair: Stine Friis and Siri Knudsen

16:00 - 16:15 (V21) **Emrah Yarkin**, Central Animal Laboratory, University of Turku (UTUCAL), Finland: Microbial status of mice and development of colitis

- 16:15 - 16:30 (S43) **Patrick Hardy**, Allentown Europe Ltd, UK/L. **Rasmussen**, Condair A/S, Denmark: Relative humidity, a review of issues and solutions
- 16:30 - 16:45 (V22) **Randi Lundberg**, Taconic Biosciences, Denmark: Effect of different chow diets on colonization efficiency and intestinal immunology of ex-germ-free mice colonized with a human or mouse microbiota
- 16:45 - 17:00 (V23) **Massimo Foa**, - Idexx Bioresearch, Germany: Environmental monitoring: prospective, challenges and solutions

Session 25 **Biological Warfare & Military Research**

Room: 11, 13

Chair: Benedict Kjærgaard, University of Aalborg, Denmark

- 15:15 - 15:45 (V24) **Armin Elbers**, University of Wageningen, The Netherlands; Agroterrorism Targeting Livestock: A Review with a Focus on Early Detection Systems
- 15:45 - 16:10 (S44) **Carsten R. Simonsen**, University of Aalborg, Denmark: Use of Apneic Ventilation in Combination with ECMO during Airborne Transportation of Patients: Experiences from Porcine Models
- 16:10 - 16:35 (V25) **Sigridur Olga Magnúsdóttir**, Aalborg University Hospital, Denmark: Anoxia: Friend or foe as regulator of pulmonary circulation
- 16:35 - 17:00 (S45) **Benedict Kjærgaard**, University of Aalborg, Denmark; Animals in her Majesty's Secret Service

Session 26 **Animal Research: Time to Talk**

Room: 15

Chair: Kirk Leech

- 15:15 - 15:50 (V26) **Kirk Leech**, EARA: Animal Research: Time to Talk!
- 15:50 - 16:25 (V27) **Jan Ottesen**, Novo Nordisk, Denmark: Openness and dialogue on the use of animals in research
- 16:25 - 17:00 (V28) **Kirsten R. Jacobsen**, Danish Animal Welfare Society, Denmark: Laboratory animals: Perspectives from an animal welfare organization

19:00

Conference dinner at Nose2Tail Restaurant

Program - Friday June 02, 2017

Session 27 **Animal Training**

Room: 10, 12, 14

Chair: Dorte Bratbo

- 09:00 - 09:10 (S46) **Dorte Bratbo Sørensen**, University of Copenhagen, Denmark: Training animals - An introduction
- 09:10 - 09:55 (S47) **Annette Pedersen**, Copenhagen Zoo, Denmark: Training exotic animals using positive reinforcement
- 09:55 - 10:15 (S48) **Zaco Sonne**, Copenhagen Zoo, Denmark: Positive reinforcement training of Tigers

Session 28 **Humanized animal models**

Room: 11, 13

Chair: Stanislav Nagy & Randi Lundberg

- 09:15 - 09:35 **Axel Kornerup Hansen**, University of Copenhagen, Denmark: An Introduction to the Humanization of Mice
- 09:35 - 10:15 (S49) **Cord Brakebusch**, University of Copenhagen, BRIC, Denmark: Humanized mice by CRISPR genome editing

Coffee break

Session 29 **Animal Training**

Room: 10, 12, 14

Chair: Dorte Bratbo

- 10:45 - 11:20 (V29) **Karolina Westlund**, Karolinska Institute, Sweden: The dark side
- 11:20 - 11:40 (V30) **Camilla Bengtsson**, Karolinska Institute, Sweden: Handling and training of laboratory rodents
- 11:40 - 12:00 (S51) **Dorte Bratbo Sørensen**, University of Copenhagen, Denmark: Training of laboratory pigs

Session 30 **Humanized animal models**

Room: 11, 13

Chair: Stanislav Nagy & Randi Lundberg

- 10:45 - 10:55 (V31) **Anders Augustinus Larsen**, Novo Nordisk A/S, Måløv, Denmark: NAFLD/NASH development in male C57BL/6J mice

10:55 - 11:25	(S52) Randi Lundberg - Taconic Biosciences, Denmark: Humanizing the microbiota of mice
11:25 - 11:55	(S53) Michael A. Pellizzon , Research Diets, Inc., USA: Choose the diets carefully: Using purified diets to model human metabolic disease in mice

12:00 **Closing remarks in Room 10, 12, 14**