

<p>Wednesday 25 May 2011 13:00 – 14:30</p>	<p>13:00 – 13:15 <u>Welcome to Scand-LAS 2011 – What is the benefit of animal research</u> Lars Friis Mikkelsen, Chair of the Organizing Committee & Vice-President, Scand-LAS 13:15 – 13:30 Welcome by KU LIFE representative 13:30 – 13:45 Welcome by “special guest” 13:45 – 14:30 <u>Karl Johan Öbrink memorial lecture</u> Chair: Hanna-Marja Voipio, President, Scand-LAS Poul Hyttel: University of Copenhagen, Faculty of Life Sciences Genetically modified pigs as refined stem cell models</p>
<p>Wednesday 25 May 2011 15:00 – 17:00</p>	<p><u>Laboratory animal ethics</u> Can we ethically justify the use of animals in research Chair: Lars Friis Mikkelsen, Novo Nordisk</p> <p>Dr. Joseph (Joe) Garner, Purdue University, USA Dr. Anna Olsson, Instituto de Biologia Molecular e Celular (IBMC), Portugal Lektor, Mickey Gjerris, KU LIFE, Denmark</p> <p>Followed by a panel discussion</p>
<p>Wednesday 25 May 2011 18:00 – 20:00</p>	<p><u>Welcome reception at the Copenhagen Town Hall</u></p> <p>Free for all Scand-LAS 2011 participants incl. bus transportation from symposium venue to Copenhagen Town Hall</p>

	<u>Auditorium 3-13</u>	<u>Auditorium 3-14</u>
	<u>Thursday theme:</u> 3Rs	<u>Thursday theme:</u> One health
Thursday 26 May 2011 8:00 – 9:45	<p><u>Replacement</u> Do we need animals for future safety testing? Chair: Lisbeth E. Knudsen, University of Copenhagen</p> <p>8:00 – 8:45 Michael Schwart, Tübingen Universitet, Germany: Replacement in reproductive toxicity 8:45 – 9:05 Christine Nellemann: In vitro studies of endocrine disruption 9:05 – 9:25 Eva Bonefeld: Alternatives to Draize eye testing 9:25 – 9:45 Lisbeth E. Knudsen: Modelling of human transplacental transport</p>	<p><u>Synergy in human and animal research</u> Can human medicine benefit from veterinary research and vice versa? Chair: Annemarie Kristensen Synergy in human and animal research</p> <p>8:00-8:25 Professor, Annemarie Kristensen: Can human medicine benefit from veterinary research and vice versa? A place for clinical animal models in biomedical research 8.25-8:50 Professor, Charlotte Bjørnvad: Feline obesity and diabetes 8:50-9:15 Professor, Lisbeth Høier Olsen and Associate professor, Jørgen Koch : The pet dog and cat as models in cardiovascular research 9:15-9:40: Professor, Mette Berendt: Spontaneous canine neurologic disorders – relevant models? What do we know?</p>
Thursday 26 May 2011 10:15 – 12:00	<p><u>Refinement</u> How do we refine future animal models? Chair: Dorte Bratbo Sørensen, KU LIFE</p> <p>10,15 – 10,45 Hanno Wurbel: 10,45 – 11,15 Björn Fokman, , KU LIFE 11,15 – 11,30 Tanja Lyholm Jensen, Denmark: The effects of fasting of mice 11,30 – 11,45 Mickey Gjerris, Denmark: Using animals and using integrity? On the role of the concept of integrity in Animal Ethics Committees. 11,45 – 12,00 Robert Teepe, Germany: EUPRIM-Net: Ensuring best practice and advancing the 3Rs in primate research</p>	<p><u>From bench to bedside</u> New animal models in pharmacology Chair: Jens Lykkesfeldt, KU LIFE</p> <p>10.15 – 11.00 Kurt Buchmann, Denmark: Zebra fish as a new in vivo model in pharmacology. 11.00 – 11.15 Brian Broberg, Denmark: Pharmacological animal models of schizophrenia. 11.15 – 11.30 Anne Pastoft, Denmark: A sensitive mouse bleeding model for pharmacological evaluation. 11.30 – 11.45 Malene Hvid Larsen, Denmark: Experimental models for atopic dermatitis. 11.45 – 12.00 Rikke Westh Thon, Denmark: Genetically modified pig models of atherosclerosis - will a new pig model benefit treatment of the human disease?</p>
Thursday 26 May 2011 13:00 – 14:45	<p><u>Reduction</u> How do we reduce the group size in animal studies? Chair: Axel Kornerup Hansen, KU LIFE</p> <p>13:00 – 13:10 Axel Kornerup Hansen, University of Copenhagen, Faculty of Life Sciences:: Reduction through standardization or diversity?</p>	<p><u>Life style diseases</u> Can the life style disease epidemic be solved without the use of animals? Chair: Kirsten Raun, Novo Nordisk</p> <p>13:00 – 13:30: Allan Flyvbjerg, Skejby University Hospital, Chair of Danish Diabetes Association: Need for animal models in diabetes</p>

	<p>13:10 – 13:35 Frans van der Berg, University of Copenhagen, Faculty of Life Sciences: Chemometrics versus traditional statistics</p> <p>13:35 – 14:00 Merete Ellekilde, University of Copenhagen, Faculty of Life Sciences: Decreasing variation through reduced gut microbiota variation</p> <p>14:00 – 14,15 Rafael, Frias, Finland: A permeability test protocol using iohexol to reduce and refine the use of laboratory rats in intestinal damage assessment. Iohexol protocol test and 2R's for use in laboratory rats</p> <p>14,15 – 14,30 Paul J. Midtlyng, Norway: Live fish trials and the use of antibiotics in aquaculture</p> <p>14,30 – 14,45 Elin Spangenberg, Sweden: Housing mice in different IVC systems</p>	<p>research</p> <p>13,30 – 13,55 Kirsten Raun, Novo Nordisk: Obesity and diabetes animal models</p> <p>13,55 – 14,20 Berit Christoffersen, Novo Nordisk: Artherosclerosis animal models</p> <p>14,20 – 14, 45 Kirsten Dahl, Novo Nordisk: A 3R approach to optimised use of large animal metabolic animal models</p>
<p>Thursday 26 May 2011 15:15 – 16:00</p>	<p><u>Poster session</u></p> <p>Please submit abstracts for poster presentation</p>	
<p>Thursday 26 May 2011 16:00 – 17:00</p>	<p><u>Scand-LAS annual meeting</u></p>	
<p>Thursday 26 May 2011 19:00 – 23:00</p>	<p><u>Exhibitors evening</u> Scand-LAS 2011 by night</p> <p>Free food, drinks and live music for all Scand-LAS 2011 participants</p>	

	<u>Auditorium 3-13</u>	<u>Auditorium 3-14</u>
	<u>Friday theme:</u> Animal models	<u>Friday theme:</u> Improved techniques
Friday 27 May 2011 8:00 – 9:45	<p><u>Neurobiology</u> Are animals proper models for human psychiatry? Chair: Gitta Wörtwein, University of Copenhagen, Faculty of Health Sciences: 8:00 – 8:10 Gitta Wörtwein, University of Copenhagen, Faculty of Life Sciences: : Introduction 8:10 – 9:05 Allan V Kalueff, Tulane University Medical School, USA: How mouse and zebra fish models can advance biological psychiatry 9:05 – 9:20 Katrine Fabricius: Social isolation rearing as an animal model in biological psychiatry 9:20 – 9:35 Gunnar Sørensen: Animal models for addiction research 9:35 – 9:45 General discussion</p>	<p><u>Methods for monitoring distress and pain</u> Do we have proper methods for monitoring pain and distress in the animals during research? Chair: Jann Hau, University of Copenhagen 8:00-8:15 Klas Abelson: Copenhagen: Animal models in pain research, 8:15-8:30 Robert Murison: Bergen Animal models in stress research, 8:30-8:45 Jann Hau, Copenhagen: Biomarkers of stress and pain in urine, feces, saliva and body hair 8:45-9:00 Otto Kalliokoski, Copenhagen: Variation and pitfalls in the interpretation of fecal corticosteroid excretion 9:00-9:15 Timo Nevalainen, Kuopio: Telemetry as tool for measuring stress and pain, 9:15-9:30 Kirsten R Jacobsen; Copenhagen: Pain assessment in mice subjected to vasectomy 9:30-9:45 Steven Schapiro; Bastrop TX: Behavioural management as stress lowering concept,</p>
Friday 27 May 2011 10:15 – 12:00	<p><u>Ruminants</u> Are ruminants good models for human diseases? Chair: Mette Olaf Nielsen, Faculty of Life Sciences, University of Copenhagen 10.15-10.45 Mette Olaf Nielsen, Dept. Basic Animal and Veterinary Sciences, Faculty of Life Sciences, University of Copenhagen: The sheep as a model for studying the role of pre- and postnatal dietary exposures on development of metabolic disorders 10.45-11.15 Michael Symonds, Division of Human Development, University of Nottingham, UK: Adipose tissue growth and development – insights from the sheep as a model for studying obesity 11.15-11.25 Anna Hauntoft Kongsted, Dept. Basic Animal and Veterinary Sciences, Faculty of Life Sciences, University of Copenhagen: Glucose-insulin axis function and endocrine pancreas development are affected by early life nutritional exposures in sheep 11.25-11.35 Lei Hou, Dept. Basic Animal and Veterinary Sciences,</p>	<p><u>Whole animal imaging</u> Can imaging be seen as a refinement? Chair: Aage Kristian Olsen Alstrup, Aarhus University Hospital 10:15 – 10:40 Aage Kristian Olsen Alstrup, Aarhus University Hospital, Denmark: Imaging techniques in small and large animals 10:40 – 11:20 Paul Cumming, Aarhus University Hospital, Denmark: Can imaging of rodents be seen as a reduction and refinement? 11:20 – 11:50 Anne M. Landau, Aarhus University Hospital, Denmark: How can we promote reduction and refinement in large animal imaging studies? 11:50 – 12:00 Discussion of animal imaging as a refinement</p>

	<p>Faculty of Life Sciences, University of Copenhagen Differential effects of pre- and postnatal dietary exposures on muscle function in the sheep 11,35 – 11,45 Sanne Husted, Dept. Basic Animal and Veterinary Sciences, Faculty of Life Sciences, University of Copenhagen: Foetal intervention studies in sheep 11.45-12.00 Discussion</p>	
<p>Friday 27 May 2011 13:00 – 14:45</p>	<p><u>Inflammation</u> Is inflammation in animal models comparable to human inflammation? Chair: Dan Holmberg 13,00 -13,15: Dan Holmberg, University of Copenhagen, Faculty of Life Sciences: 13,15 -14,00: Rikard Holmdahl, Karolinska Institutet, Stockholm 14,00 – 14,45: Julie Stephanie-Frick, University of Tuebingen</p>	<p><u>Immunization</u> How do we produce the best antibodies under the best animal welfare? Chair: Jann Hau, University of Copenhagen 13-13:30: Klaus Koch, Copenhagen. Overview of present methodology in production of monoclonal and polyclonal antibodies in various species. 13:30-14: Sveinbjörn Gizurarson, Reykjavik. Developments in adjuvants and effective alternatives to Freund's Complete Adjuvant. 14-14:20: Jann Hau, Copenhagen. Implementation of the 3Rs through oral immunization of chickens and purification of antibodies from the egg yolk. 14:20-14:45 Joint discussion with the audience</p>
<p>Friday 27 May 2011 15:15 – 17:00</p>	<p><u>Cancer</u> Do we need animals for cancer research? Chair: Leif R. Lund, Faculty of Health Sciences, University of Copenhagen 15,15 – 15,45 Leif R. Lund, Faculty of Health Sciences, University of Copenhagen: "The use of animal models in cancer research: An overview" 15,45 – 16,15 Mikala Egeblad, Cold Spring Harbor, New York, US: "Tumors as organs - Understanding therapy responses using live microscopy". 16,15 – 16,45 Andreas Hald, Faculty of Health Sciences, University of Copenhagen: The role of plasmin mediated fibrinolysis in skin cancer. 16,45 – 17,00 Janne Koch, Denmark: Investigation of the cancer resistant phenotype of the SR/CR mouse</p>	
<p>Friday 27 May 2011 18:00 – 23:30</p>	<p><u>Gala Dinner at Carlsberg Museum</u></p>	

	<u>Auditorium 3-14</u>
	<u>Saturday theme:</u> Teaching
Saturday 28 May 2011 9:00 – 11:45	<p><u>Teaching</u> How do we improve laboratory animal science teaching ? Chair: Axel Kornerup Hansen, University of Copenhagen, Faculty of Life Sciences: 9,00 – 9,05: Axel Kornerup Hansen, University of Copenhagen, Faculty of Life Sciences: Introduction. 9,05 – 9,20: Annette, Hildabrand – USA: Animal Use in Education. Where are we and where do we go from here? 9,20 – 9,35 Keith Davies, United Kingdom: Investigating Concepts of Emotional Labour and Emotional Dissonance among UK Animal Technicians 9,35 – 10,00: David Smith: Continuing education 10,00 – 10,30: Coffee 10,30 – 10,55: Leon Brimer University of Copenhagen, Faculty of Life Sciences: Online teaching in toxicology 10,55 – 11,15: Rikke Langebæk University of Copenhagen, Faculty of Life Sciences: Online teaching in the small animal clinic 11,15 – 11,35: Rikke Langebæk University of Copenhagen, Faculty of Life Sciences: Using dummies for surgical training</p>
Saturday 28 May 2011 11:45 – 12:00	Closing ceremony