

Animal Research: Better Science from Fewer Animals

Final Programme







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ederation of European

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On behalf of the Organising Committee, I have great pleasure in welcoming you to the **12<sup>th</sup> FELASA and 12<sup>th</sup> SECAL** joint congress in Barcelona, Spain.

We have chosen the title: "Animal Research: Better Science from Fewer Animals" both to emphasise the essential contribution that experimental animals have made to biomedical research, and in the hope that the new models and methodological approaches presented at this congress will facilitate the use of fewer animals and better experimental results.

I have great pleasure in presenting the **12<sup>th</sup> FELASA SECAL** Congress programme. In the tradition of **FELASA** and **SECAL** congresses, we are offering an informative and educative program with 36 state-of-the-art sessions, 10 workshops and several satellite workshops, on topics such as e-learning, cryopreservation, occupational health and presentation of the first guidelines for the maintenance and welfare of cephalopods used for research. There will also be over 340 poster and 8 oral presentations. We have prioritised poster rather than oral presentations because the posters will be displayed for the duration of the congress and will therefore provide better opportunities for authors to discuss their results and projects with colleagues.

The sessions and workshops have been organised in three colour-coded itineraries: **Blue - Health, Welfare and Legal Issues; Green - Animal Facility Managing;** and **Red - LAS Applied Research**. The program has been prepared by a scientific committee with extensive knowledge and experience in LAS, with the aim of providing a comprehensive range of topics to cater for varied interests in the field of laboratory animal science.

This is the first **FELASA Congress** after the publication of the European Directive 2010/63/EU and you will find several sessions that deal with different aspects of this Directive and its implementation in various European countries. We also wanted to strengthen and give increased visibility to animal models for human diseases, and we have tried to orientate the traditional topics of a LAS congress to the final objective of our work: Finding new therapies for human and animal diseases.

We hope that this **FELASA-SECAL Congress** will provide good opportunities for making contacts, networking and sowing the seeds for future projects. I would like to draw your attention to the vast exhibitors' area where companies from different areas and with different approaches will present their latest equipment and innovations. We have been pleasantly surprised by the amount of interest shown by exhibitors in our congress so, please, take the opportunity to spend some time with them particularly during coffee and lunch which will be served in the exhibitors' area.

We would like you to enjoy this congress from both a scientific and social perspective and we invite you to participate in our evening social programme, where you can savour our traditional local cuisine and beverages, meet old colleagues and make new friends. Please also remember that it will be worth while getting up a bit earlier on Wednesday to participate in the walk/run race. It will give you the opportunity to invigorate yourself and experience the sea front at one of the best moments of the day!

Patri Vergara Chair of Congress



			MONDAY, 10 JUNE		
08:00			Registration opens		
Rooms	114	115	116 + 117	118	119
09:00	WS04 ➤ Planning an effective animal imaging unit	<b>WS07 ▶</b> Experimental design		WS01 ► New challenges in education and training in LAS: Using e-learning	
12:00		Welcom	e Reception at the Exhibit	on Area	
13:00			Opening Ceremony and Plenary Lecture		
14:00	<b>S01 &gt;</b> What is new in FELASA? FELASA Working Groups	<b>S25</b> ► Aging: Care and management of aged animals (rat, mouse, zebrafish, NHP)	<b>S13 →</b> New project development: Efficiency, economics, and the environment	WS02 → How to present our work to society	WSE ► New technologies in rodent and zebrafish health monitoring. Idexx BioResearch
15:30		Coff	ee break at the Exhibition	Area	
16:00	<b>S14 →</b> Economic limitations in the design and management of animal facilities	S26 ➤ Neurological disorders: Phenotyping for models of Alzheimer, Parkinson (NHP) and Down Syndrome	<b>S02 →</b> Education and training in LAS: Implementation of the new European Directive 2010/63	WSE ► Assessing automation in animal facility projects. Tecniplast	
17:30					
19:30			Welcome Party		

	TUESDAY, 11 JUNE				
07:30	Registration opens				
Rooms	s 114 115 116 + 117 118				119
08:00	<b>S03</b> ► Cephalopods and Directive 2010/63: Challenges and opportunities	<b>S15 →</b> Outsourcing or in-house services	S31 ➤ Severity assessment and endpoints in disease models	WS05 ➤ Design of databases according to the different management needs	
09:30		Coff	ee break at the Exhibition	Area	
10:00	S16 ➤ Implementation of occupational health and safety programmes	<b>528 →</b> Data sharing	<b>S04  ►</b> Europe-USA harmonisation on health monitoring for rodent shipments and harm-benefit analysis in ethical review	WS08 ▶ Meet the editor	
11:30			Plenary Lecture		
12:30		Poster presentation (	odd numbers) and Lunch	at the Exhibition Area	
14:00	<b>S06</b> ► Quality assurance of education and training in LAS	<b>S29 ≻</b> Experimental models and the microbiota	<b>S17 →</b> Adapting to zebrafish: Facilities and management	WS06 → Funding opportunities for the European Laboratory Animal Science Community	<b>S05</b> ► From national legislation to the new European Directive 2010/63 in Eastern European countries
15:30		Coff	ee break at the Exhibition	Area	
16:00	<b>S18 &gt;</b> Human resources management	<b>S30 →</b> Experimental models for the study of metabolic diseases	<b>S07                                    </b>	WSE ► Getting beyond compliance- development in rodent cage design and care procedures. Tecniplast	
17:30	SECAL General Assembly			WS11 > Meeting of the T&T Board with FELASA accredited course organisers (by invitation only)	



	WEDNESDAY, 12 JUNE				
07:00	12 <sup>th</sup> FELASA SECAL Walk / Run Race				
08:30			Registration opens		
Rooms	114	115	116 + 117	118	119
09:00	<b>S08 ▶</b> ICLAS, an organisation serving in a global context	<b>S19 &gt;</b> Biosafety and biocontainment in high-risk experimental models	<b>S27 ►</b> Neurodegenerative diseases: Design of shared units		
10:30	Coff	ee break at the Exhibition .	Area	WS03 ► Aspects of genetic monitoring in rodents	
11:00	<b>S09 ▶</b> Pigs as research models	<b>S32 ►</b> Discovery and toxicology: Alternative methods	<b>S20 ▶</b> Transportation of laboratory animals: Legal, health, welfare and supply issues	Todents	WS09 ► Practical pathology for research and phenotyping
12:30		Poster presentation (e	even numbers) and Lunch	at the Exhibition Area	
14:00	<b>S21 →</b> Quality implementation and assessment in animal units	<b>533 →</b> Use of stem cells in disease animal models	<b>S10 ▶</b> Health and welfare in NHP: A review	<b>WS10 →</b> Towards evidence-based translational research	
15:30		Coff	ee break at the Exhibition	Area	-
16:00	<b>S11 </b> ► Health and welfare in GM rodents: A review	S34 ► Cardiovascular models: refinement in experimental surgery in large animals	<b>S22 ►</b> Approaches to ethical review after the implementation of the European Directive 2010/63/EU		
17:30					
18:30	Panoramic City Tour				
20:30			Congress Dinner		

	THURSDAY, 13 JUNE				
08:00			Registration opens		
Rooms	114	114         115         116 + 117         118         119			
08:30		<b>S23 &gt;</b> Sperm cryopreservation in non-rodent species	<b>S35</b> ► Genetically altered models. Why research does not always translate?	WSE ► Making sense of mouse nomenclature, genetic background effects and the importance of genetic stability Charles River	WSE ► Cryopreservation of rodents, reproductive sciences and colony management of transgenic rodents – 3R Management. Janvier
10:00		Coffe	ee break at the Exhibition	Area	
10:30	<b>S12 →</b> Farm animals and poultry as research models	<b>S24                                    </b>	<b>S36 →</b> Managing genetically altered colonies		
12:00			FELASA 2013 Award and Plenary Lecture		
13:00			Closing Ceremony		

 $\textbf{S} \blacktriangleright \text{Sessions}$ 

Blue itinerary > Health, welfare and legal issues

**WS** ► Workshops

WSE Workshops organised by Exhibitors

Green itinerary ► Animal facility management Red itinerary ► LAS applied research



### Keynote Speakers



#### María A. Blasco

María A. Blasco (Alicante, 1965) obtained her PhD in 1993 for her research at the *Centro de Biología Molecular "Severo Ochoa"* under the supervision of M. Salas. That same year, Blasco joined the Cold Spring Harbor Laboratory in New York (USA) as a Postdoctoral Fellow under the leadership of C.W. Greider.

In 1997 she returned to Spain to start her own research Group at the *Centro Nacional de Biotecnología* in Madrid. She joined the CNIO in 2003 as Director of the Molecular Oncology Programme and Leader of the Telomeres and Telomerase Group and was appointed CNIO Director in 2011.

Blasco has received the Josef Steiner Cancer Research, *Rey Jaime I*, Körber European Science, *Alberto Sols*, and *Fundación Lilly Precilinical Research* Awards as well as the Spanish National *Santiago Ramón y Cajal* Research Award in Biology (2010). Blasco has also been awarded the EMBO Gold Medal and has served on its Council since 2008.

Her major research achievements include:

- Isolation of the core components of mouse telomerase and generation of the first knockout mouse for telomerase.
- Generation of the first mouse with increased telomerase expression in adult tissues. The finding that mammalian telomeres and subtelomeres have marks characteristic of constitutive heterochromatin.
- Discovery of telomeric RNAs, which are potent telomerase-inhibitors whose expression is altered in cancer.
- Demonstration that telomerase activity and telomere length determine the self-renewal capacity of adult stem cells.
- Identification of the longest telomeres as a universal feature of adult stem cell niches.
- The finding that telomerase over-expression in the context of cancer resistant-mice improves organismal fitness, produces a systemic delay in ageing and an extension in median life-span.
- Discovery that telomeres rejuvenate after nuclear reprogramming.
- Identification of the molecular mechanisms by which short telomeres/DNA damage limit nuclear reprogramming of defective cells.
- Discovery that telomeric protein TRF1 can act as both a tumour suppressor and as a factor in ageing prevention.



#### Cory Brayton

Dr. Brayton received her D.V.M. from Cornell University, and is board certified in Laboratory Animal Medicine (ACLAM), and Veterinary Pathology (ACVP). She did postdoctoral research and pathology training in New York City at the Animal Medical Center, Cornell University and The Rockefeller University. At The Rockefeller University (1989-1992), she became specifically interested in the pathology and characterization (phenotyping) of genetically engineered mice (GEM), and pursued this interest at several institutions while heading the Facility for Comparative Studies at the Hospital for Special Surgery (1992-1998). At Baylor College of Medicine (1998-2004), she headed the Comparative Pathology Laboratory, and was responsible for health surveillance and diagnostic pathology for a diverse research population including more than 150,000 mice. She also was associate professor in pathology, and national

and international conferences on the characterization and pathology of genetically engineered mice. In 2004 she moved to Johns Hopkins to develop a collaborative phenotyping core based in the Department of Molecular and Comparative Pathobiology (MCP), where veterinarian faculty investigators and trainees provide a unique comparative and translational research resource, in an institution with exceptional resources for multidisciplinary biomedical research.



#### Timo Nevalainen

Timo Nevalainen earned his DVM 1972 at the University of Helsinki, Finland, MS in Laboratory Animal Medicine at the Pennsylvania State University, USA 1976, and PhD in physiology 1984 in Helsinki. His professional career started as a physiology teacher, progressed to director of the National Laboratory Animal Center, both at the University of Kuopio. Since 1990 he has served as the Professor in Laboratory Animal Science (LAS) and Welfare both at the University of Kuopio (now University of Eastern Finland) and at the University of Helsinki. He has supervised eight PhD theses in LAS. While on sabbatical leaves, he has worked as a visiting professor at the University of Cincinnati and at the Pennsylvania State University.

He has had an active role in scientific and professional associations; he is past president of both Scand-LAS and FELASA, initiated and chaired an EU COST Action B24 and is involved with various other EU activities, such as evaluation of the 7th Framework Program. He has also a keen interest in establishing

competence education of all categories in his country of origin, Baltic countries, Russia and Thailand. He has had a key role in establishing FELASA education guidelines of all four categories, and FELASA Accreditation of training. Currently he is a member of the FELASA Accreditation Board and the ILAR Council.

The common theme of his research emphasizes the Refinement and Reduction alternatives, and their interplay in the use of laboratory animals. More recently, he has become interested in a third dimension, i.e. to examine how those Two R alternatives can also yield better science.

### List of Sessions and Workshops



	PLENARY LECTURE	S
PL1	Opening Ceremony Telomeres as therapeutic targets for cancer and aging	<b>Monday</b> , 10 June from 13:00 to 14:00 h. Room <b>116+117</b>
PL2	High throughput and traditional phenotyping, how international efforts can help our research	<b>Tuesday</b> , 11 June from 11:30 to 12:30 h. Room <b>116+117</b>
PL3	FELASA 2013 Award The two Rs approach	<b>Thursday</b> , 13 June from 12:00 to 13:00 h. Room <b>116+117</b>

	Blue Itinerary ➤ HEALTH, WELFARE and	LEGAL ISSUES
<b>S01</b>	What is new in FELASA? FELASA working groups	<b>Monday</b> , 10 June from 14:00 to 15:30 h. Room <b>114</b>
<b>S02</b>	Education and training in LAS: Implementation of the new European Directive 2010/63	<b>Monday</b> , 10 June from 16:00 to 17:30 h. Room <b>116+117</b>
<b>S03</b>	Cephalopods and Directive 2010/63: Challenges and opportunities	<b>Tuesday</b> , 11 June from 08:00 to 09:30 h. Room <b>114</b>
<b>S04</b>	Europe-USA harmonisation on health monitoring for rodent shipments and harm-benefit analysis in ethical review	<b>Tuesday</b> , 11 June from 10:00 to 11:30 h. Room <b>116+117</b>
S05	From national legislation to the new European Directive 2010/63 in Eastern European countries	<b>Tuesday</b> , 11 June from 14:00 to 15:30 h. Room <b>119</b>
<b>S06</b>	Quality assurance of education and training in LAS	<b>Tuesday</b> , 11 June from 14:00 to 15:30 h. Room <b>114</b>
<b>S07</b>	Pain in laboratory animals	<b>Tuesday</b> , 11 June from 16:00 to 17:30 h. Room <b>116+117</b>
<b>S08</b>	ICLAS, an organisation serving in a global context	<b>Wednesday,</b> 12 June from 09:00 to 10:30 h. Room <b>114</b>
<b>S09</b>	Pigs as research models	<b>Wednesday,</b> 12 June from 11:00 to 12:30 h. Room <b>114</b>
<b>S10</b>	Health and welfare in NHP: A review	<b>Wednesday,</b> 12 June from 14:00 to 15:30 h. Room <b>116+117</b>
S11	Health and welfare in GM rodents: A review	<b>Wednesday</b> , 12 June from 16:00 to 17:30 h. Room <b>114</b>
S12	Farm animals and poultry as research models	<b>Thursday</b> , 13 June from 10:30 to 12:00 h. Room <b>114</b>



	Green Itinerary ► ANIMAL FACILITY N	IANAGING
S13	New project development: Efficiency, economics and the environment	Monday, 10 June from 14:00 to 15:30 h. Room 116+117
S14	Economic limitations in the design and management of animal facilities	<b>Monday,</b> 10 June from 16:00 to 17:30 h. Room <b>114</b>
S15	Outsourcing or in-house services	<b>Tuesday</b> , 11 June from 08:00 to 09:30 h. Room <b>115</b>
S16	Implementation of occupational health and safety programmes	<b>Tuesday</b> , 11 June from 10:00 to 11:30 h. Room <b>114</b>
S17	Adapting to zebrafish: Facilities and management	<b>Tuesday</b> , 11 June from 14:00 to 15:30 h. Room <b>116+117</b>
S18	Human resources management	<b>Tuesday</b> , 11 June from 16:00 to 17:30 h. Room <b>114</b>
S19	Biosafety and biocontainment in high-risk experimental models	<b>Wednesday</b> , 12 June from 09:00 to 10:30 h. Room 1 <b>15</b>
S20	Transportation of laboratory animals: Legal, health, welfare and supply issues	Wednesday, 12 June from 11:00 to 12:30 h. Room 116+117
S21	Quality implementation and assessment in animal units	<b>Wednesday</b> , 12 June from 14:00 to 15:30 h. Room <b>114</b>
S22	Approaches to ethical review after the implementation of European Directive 2010/63/EU	Wednesday, 12 June from 16:00 to 17:30 h. Room <b>116+117</b>
<b>S</b> 23	Sperm cryopreservation in non-rodent species	<b>Thursday</b> , 13 June from 08:30 to 10:00 h. Room <b>115</b>
S24	Disaster planning	<b>Thursday</b> , 13 June from 10:30 to 12:00 h. Room <b>115</b>

	Red Itinerary ► LAS APPLIED RESEARCH		
S25	Aging: Care and management of aged animals (rat, mouse, zebrafish, NHP)	<b>Monday</b> , 10 June from 14:00 to 15:30 h. Room <b>115</b>	
S26	Neurological disorders: Phenotyping for models of Alzheimer, Parkinson (NHP) and Down Syndrome	<b>Monday,</b> 10 June from 16:00 to 17:30 h. Room <b>115</b>	
S27	Neurodegenerative diseases: Design of shared units	Wednesday, 12 June from 09:00 to 10:30 h. Room 116+117	
S28	Data sharing	<b>Tuesday</b> , 11 June from 10:00 to 11:30 h. Room <b>115</b>	
S29	Experimental models and the microbiota	<b>Tuesday</b> , 11 June from 14:00 to 15:30 h. Room <b>115</b>	
<b>S</b> 30	Experimental models for the study of metabolic diseases	<b>Tuesday</b> , 11 June from 16:00 to 17:30 h. Room <b>115</b>	
<b>S</b> 31	Severity assessment and endpoints in disease models	<b>Tuesday</b> , 11 June from 08:00 to 09:30 h. Room <b>116+117</b>	
<b>S</b> 32	Discovery and toxicology. Alternative methods	Wednesday, 12 June from 11:00 to 12:30 h. Room 115	
533	Use of stem cells in disease animal models	<b>Wednesday</b> , 12 June from 14:00 to 15:30 h. Room <b>115</b>	
<b>S</b> 34	Cardiovascular models: Refinement in experimental surgery in large animals	Wednesday, 12 June from 16:00 to 17:30 h. Room 115	
S35	Genetically altered models. Why research does not always translate?	Thursday, 13 June from 08:30 to 10:00 h. Room 116+117	
<b>S</b> 36	Managing genetically altered colonies	<b>Thursday</b> , 13 June from 10:30 to 12:00 h. Room <b>116+117</b>	





	WORKSHOPS		
<b>WS</b> 01	New challenges in education and training in LAS: Using e-learning	<b>Monday</b> , 10 June from 09:00 to 12:00 h. Room <b>118</b>	
WS02	How to present our work to Society	<b>Monday</b> , 10 June from 14:00 to 15:30 h. Room <b>118</b>	
WS03	Aspects of genetic monitoring in rodents	Wednesday, 12 June from 09:00 to 12:00 h. Room <b>118</b>	
WS04	Planning an effective imaging unit	Monday, 10 June from 09:00 to 12:00 h. Room 114	
WS05	Design of databases according to the different management needs	<b>Tuesday</b> , 11 June from 08:00 to 09:30 h. Room <b>118</b>	
WS06	Funding opportunities for the European Laboratory Animal Science Community	<b>Tuesday</b> , 11 June from 14:00 to 15:30 h. Room <b>118</b>	
WS07	Experimental design	<b>Monday</b> , 10 June from 09:00 to 12:00 h. Room <b>115</b>	
WS08	Meet the Editor	<b>Tuesday</b> , 11 June from 10:00 to 11:30 h. Room <b>118</b>	
WS09	Practical pathology for research and phenotyping	<b>Wednesday</b> , 12 June from 11:00 to 12:30 h. Room <b>119</b>	
WS10	Towards evidence-based translational research	Wednesday, 12 June from 14:00 to 15:30 h. Room <b>118</b>	
WS11	Meeting of the T&T Board with FELASA accredited course organisers ( <i>by invitation only</i> )	<b>Tuesday,</b> 11 June from 17:30 to 19:00 h. Room <b>118</b>	

	SATELLITE WORKSHOP		
SW01	Mouse sperm cryopreservation (Not included in the registration fee)	Monday, 10 June from 09:00 to 12:00 h Faculty of Medicine, University of Barcelona	

	(SHOPS
New technologies in rodent and zebrafish health monitoring	Monday, 10 June from 14:00 to 15:30 h. Room <b>119</b> Organised by ▶ <b>Idexx BioResearch</b>
Assessing automation in animal facility projects	Monday, 10 June from 16:00 to 17:30 h. Room <b>118</b> Organised by ▶ <b>Tecniplast</b>
Getting beyond compliance-development in rodent cage design and care procedures	Tuesday, 11 June from 16:00 to 17:30 h. Room <b>118</b> Organised by ▶ <b>Tecniplast</b>
Making sense of mouse nomenclature, genetic background effects and the importance of genetic stability	Thursday, 13 June from 08:30 to 10:00 h. Room 118 Organised by ▶ Charles River
Cryopreservation of rodents, reproductive sciences and colony management of transgenic rodents. 3R management	Thursday, 13 June from 08:30 to 10:00 h. Room <b>119</b> Organised by ▶ <b>Janvier</b>



### Monday ► 10 JUNE

12:00	Welcome Reception > Exhibition Area
13:00	Opening Ceremony and Plenary Lecture► Room 116+117PL1 ► Telomeres as therapeutic targets for cancer and aging► Room 116+117María A. Blasco, Spanish National Cancer Research Center (CNIO), Spain► Room 116+117
	Introduced by 🕨 Juan Martín-Caballero
Session 01	What is new in FELASA? FELASA working groupsRoom 114
	Chairpersons > Ann-Christine Eklöf / Ana Isabel Santos Sponsored by > , < >
14:00	S01-1 > FELASA is not just a congress organiser!Jan-Bas Prins, Leiden University Medical Center, The Netherlands
14:30	<b>S01-2 ▶ FELASA Working Groups: Aims and overview</b> Ann-Christine Eklöf, <i>Karolinska University Hospital, Sweden</i>
14:50	S01-3 ▶ FELASA Accreditation of health monitoring programmes and testing laboratories involved in health monitoring Werner Nicklas, German Cancer Research Center, Germany
15:10	S01-4 > FELASA education and training accreditation system Patri Vergara, Autonomous University of Barcelona, Spain
Session 25	- Aging: Care and management of aged animals (rat, mouse, zebrafish, NHP) • Room 115
	Chairpersons > Gabi Itter / Udo Albus
14:00	<b>S25-1 ▶ Hearing disorders in aged mice</b> Sylvie Cosnier-Pucheu, <i>Sanofi Recherche, France</i>
14:30	<b>S25-2 ▶ Caring for aging and aged nonhuman primates</b> Susanne Rensing, <i>Abbvie Deutschland GmbH &amp; Co KG, Germany</i>
15:00	S25-3 • Growing zebrafish: A challenge? Nouha Ritschel, Max-Planck-Institute, Germany
Session 13	- New project development: Efficiency, economics and the environment   Room 116+117
	Chairpersons 🕨 Alberto Gobbi / Jim Wallace
14:00	Welcome and introduction
1/ 05	Alberto Gobbi, European Institute of Oncology and COGENTECH S.c.a.r.l., Italy
14:05	S13-1 ▶ New project development: Efficiency, economics and the environment Jim Wallace, Science Associates, United Kingdom
14:15	<b>S13-2 &gt; Driving the delivery of sustainable laboratory facilities in the UK higher education sector</b> Arthur Nicholas, <i>Manchester University, United Kingdom</i>
14:35	S13-3 ▶ Waste not: How the paradigm shift in cagewash equipment can significantly reduce energy consumption and reduce operating costs Jeff Zynda, Payette, USA
14:55	<b>S13-4 &gt; Improving animal facility efficiency step by step: Logistics and lean</b> Federica Baldin, <i>European Institute of Oncology and COGENTECH S.c.a.r.l., Italy</i>
15:10	S13-5 > ORAL COMMUNICATION: Design and development of a new animal facility at Trinity College Dublin: Opportunities and pitfalls S. Mehigan, <i>Trinity College Dublin, Ireland</i>
15:20	Questions and discussion
15:30	<b>Coffee break</b> ▶ Exhibition Area



Monday ► 10 JUNE

Session 14 ·	- Economic limitations in the design and management of animal facilities
	Chairpersons ▶ Xavier Cañas / Gabbi Itter
16:00	S14-1 • Implementation of Directive 2010/63/EU in industry: Impact assessment, change management and leadership Colin Dunn, Charles River Laboratories, United Kingdom
16:30	<b>S14-2 • The low(er) carbon animal research facility</b> Steven Cubitt, <i>The Cube, Cambridge, United Kingdom</i>
17:00	S14-3 • Implementing common operation management in distributed facilities founders of phenomin, the French national infrastructure for mouse phenogenomics Yann Herault, ICS-TAAM, France
Session 26 ·	<ul> <li>Neurological disorders: Phenotyping for models of Alzheimer,</li> <li>Parkinson (NHP) and Down Syndrome</li> <li>Room 115</li> </ul>
	Chairpersons > Mara Dierssen / Clare Stanford
16:00	S26-1 • Generation of new animal models for Alzheimer disease by interfering with synaptic protein complexes Monica DiLuca, University of Milan, Italy
16:30	<b>S26-2 &gt; Progress in translational animal models of Parkinson's disease</b> Emma Lane, Welsh School of Pharmacy, United Kingdom
17:00	S26-3 > Alzheimer's disease and Down Syndrome: A mouse model Frances Wiseman, Institute of Neurology UCL, United Kingdom
Session 02 -	• Education and training in LAS: Implementation of the new European Directive 2010/63 > Room 116+117
	Chairpersons > David Smith / Ismene Dontas
16:00	S02-1 > A framework for education and training in Europe. Overview of the work of the Expert Working Group Susanna Louhimies, EC, DG ENV Brussels, Belgium
16:30	S02-2 > A mechanism for supervision and assessment of competence Manuel Berdoy, Oxford University, United Kingdom
16:50	<b>S02-3</b> Accreditation and mutual acceptance of laboratory animal science courses within Europe Patri Vergara, Autonomous University of Barcelona, Spain, and David Smith, FELASA

17:10 S02-4 > Selecting and training members of Animal Welfare Bodies Maggy Jennings, *RSPCA, United Kingdom* 



Session 03	- Cephalopods and Directive 2010/63: Challenges and opportunities Room 114	
30331011 00	Chairpersons > Paul Andrews / Graziano Fiorito	
08:00	<b>S03-1 &gt; Why were cephalopods included in Directive 2010/63/EU?</b> Paul Andrews, St. George's University of London and Boyd Group Cephalopod Working Group, United Kingdom	
08:30	S03-2 > The development of consensus guidelines for care and welfare of cephalopods: Key recommendations Graziano Fiorito, Cephalopod Research Organization, CephRes-ONLUS, Italy	
09:00	S03-3 > Challenges in applying guidelines for care and welfare of cephalopods to daily practice. A view from a researcher and carer Michael Kuba, <i>Hebrew University, Israel</i>	
Session 15	- Outsourcing or in-house services? ► Room 115	
	Chairpersons 🕨 Juan Martín-Caballero / Alberto Gobbi	
08:00	S15-1 ▶ Outsourcing services in a Lean Mouse Facility Alberto Gobbi, European Institute of Oncology and COGENTECH S.C.A.R.L., Italy	
08:20	<b>S15-2 ▶ A third option: Outsourcing + indoor</b> Sara Capdevila, <i>PRBB, Spain</i>	
08:40	S15-3 ▶ Right-sourcing your animal care and use programme Ernesto de la Cueva, <i>Charles River, Spain</i>	
09:20	Questions and discussion	
Session 31	<ul> <li>Severity assessment and endpoints in disease models</li> <li>Room 116+117</li> </ul>	
Session 31	- Severity assessment and endpoints in disease models	
Session 31 08:00		
	Chairpersons > Dirk Wedekind / Anne-Dominique Degryse S31-1 > Severity assessment under Directive 2010/63/EU	
	Chairpersons > Dirk Wedekind / Anne-Dominique Degryse <b>S31-1 &gt; Severity assessment under Directive 2010/63/EU</b> David B. Anderson, <i>Convenor FELASA/ESLAV/ECLAM WG on Severity Classification, United Kingdom</i> <b>S31-2 &gt; Report of FELASA/ESLAV/ECLAM Working Group on Severity. Approach of the WG</b>	
	Chairpersons > Dirk Wedekind / Anne-Dominique Degryse <b>S31-1 &gt; Severity assessment under Directive 2010/63/EU</b> David B. Anderson, <i>Convenor FELASA/ESLAV/ECLAM WG on Severity Classification, United Kingdom</i> <b>S31-2 &gt; Report of FELASA/ESLAV/ECLAM Working Group on Severity. Approach of the WG</b> David B. Anderson, <i>Convenor FELASA/ESLAV/ECLAM WG on Severity Classification, United Kingdom</i> <b>S31-3 &gt; Severity assessment of mouse models used in oncology studies</b>	
08:00	Chairpersons > Dirk Wedekind / Anne-Dominique Degryse <b>S31-1 &gt; Severity assessment under Directive 2010/63/EU</b> David B. Anderson, <i>Convenor FELASA/ESLAV/ECLAM WG on Severity Classification, United Kingdom</i> <b>S31-2 &gt; Report of FELASA/ESLAV/ECLAM Working Group on Severity. Approach of the WG</b> David B. Anderson, <i>Convenor FELASA/ESLAV/ECLAM WG on Severity Classification, United Kingdom</i> <b>S31-3 &gt; Severity assessment of mouse models used in oncology studies</b> David B. Anderson, <i>Convenor FELASA/ESLAV/ECLAM WG on Severity Classification, United Kingdom</i> <b>S31-4 &gt; Severity assessment of a rat stroke model</b>	
08:00 08:35	Chairpersons > Dirk Wedekind / Anne-Dominique Degryse <b>S31-1 &gt; Severity assessment under Directive 2010/63/EU</b> David B. Anderson, <i>Convenor FELASA/ESLAV/ECLAM WG on Severity Classification, United Kingdom</i> <b>S31-2 &gt; Report of FELASA/ESLAV/ECLAM Working Group on Severity. Approach of the WG</b> David B. Anderson, <i>Convenor FELASA/ESLAV/ECLAM WG on Severity Classification, United Kingdom</i> <b>S31-3 &gt; Severity assessment of mouse models used in oncology studies</b> David B. Anderson, <i>Convenor FELASA/ESLAV/ECLAM WG on Severity Classification, United Kingdom</i> <b>S31-4 &gt; Severity assessment of a rat stroke model</b> Ana Criado, <i>Aptuit, Italy</i> <b>S31-5 &gt; Severity assessment: A useful refinement tool in regulatory toxicology studies</b>	
08:00 08:35 08:45	Chairpersons > Dirk Wedekind / Anne-Dominique Degryse S31-1 > Severity assessment under Directive 2010/63/EU David B. Anderson, Convenor FELASA/ESLAV/ECLAM WG on Severity Classification, United Kingdom S31-2 > Report of FELASA/ESLAV/ECLAM Working Group on Severity. Approach of the WG David B. Anderson, Convenor FELASA/ESLAV/ECLAM WG on Severity Classification, United Kingdom S31-3 > Severity assessment of mouse models used in oncology studies David B. Anderson, Convenor FELASA/ESLAV/ECLAM WG on Severity Classification, United Kingdom S31-4 > Severity assessment of a rat stroke model Ana Criado, Aptuit, Italy S31-5 > Severity assessment: A useful refinement tool in regulatory toxicology studies Carla Bol, WIL Research Laboratories, The Netherlands S31-6 > Severity assessment of a rat arthritis model	
08:00 08:35 08:45 08:55	Chairpersons > Dirk Wedekind / Anne-Dominique Degryse <b>S31-1 &gt; Severity assessment under Directive 2010/63/EU</b> David B. Anderson, <i>Convenor FELASA/ESLAV/ECLAM WG on Severity Classification</i> , <i>United Kingdom</i> <b>S31-2 &gt; Report of FELASA/ESLAV/ECLAM Working Group on Severity. Approach of the WG</b> David B. Anderson, <i>Convenor FELASA/ESLAV/ECLAM WG on Severity Classification</i> , <i>United Kingdom</i> <b>S31-3 &gt; Severity assessment of mouse models used in oncology studies</b> David B. Anderson, <i>Convenor FELASA/ESLAV/ECLAM WG on Severity Classification</i> , <i>United Kingdom</i> <b>S31-4 &gt; Severity assessment of a rat stroke model</b> Ana Criado, <i>Aptuit, Italy</i> <b>S31-5 &gt; Severity assessment: A useful refinement tool in regulatory toxicology studies</b> Carla Bol, <i>WIL Research Laboratories, The Netherlands</i> <b>S31-6 &gt; Severity assessment of a rat arthritis model</b> Istvan Gyertyan, <i>Gedeon Richter Plc., Hungary</i> <b>S31-7 &gt; Severity assessment in GMOs</b>	
08:00 08:35 08:45 08:55 09:05	Chairpersons > Dirk Wedekind / Anne-Dominique Degryse S31-1 > Severity assessment under Directive 2010/63/EU David B. Anderson, Convenor FELASA/ESLAV/ECLAM WG on Severity Classification, United Kingdom S31-2 > Report of FELASA/ESLAV/ECLAM Working Group on Severity. Approach of the WG David B. Anderson, Convenor FELASA/ESLAV/ECLAM WG on Severity Classification, United Kingdom S31-3 > Severity assessment of mouse models used in oncology studies David B. Anderson, Convenor FELASA/ESLAV/ECLAM WG on Severity Classification, United Kingdom S31-3 + Severity assessment of a rat stroke model Ana Criado, Aptuit, Italy S31-5 > Severity assessment: A useful refinement tool in regulatory toxicology studies Carla Bol, WIL Research Laboratories, The Netherlands S31-6 + Severity assessment of a rat arthritis model Istvan Gyertyan, Gedeon Richter Plc., Hungary S31-7 + Severity assessment in GMOs Dirk Wedekind, Hannover Medical School, Germany S31-8 + Conclusion: Frameworks and tools of work	



Session 16	- Implementation of occupational health and safety programmes	▶ Room 114
	Chair 🕨 Juan Rodríguez	
10:00	S16-1 • Occupational health and safety program in veterinary vaccine R&D Patrick Hardy, <i>AFSTAL</i>	
10:40	S16-2 • Occupational health and safety program in an animal imaging facility Jordi Llop, CIC bioMAGUNE, Spain	
11:05	<b>S16-3 • Occupational health and safety issues working with animals under biosafet</b> Gonzalo Pascual, <i>Animal Health Research Center, Spain</i>	y conditions
Session 28	- Data sharing	▶ Room 115
	Chair > Ghislaine Poirier	
10:00	Introduction	
10:05	S28-1 > Cross company data-sharing in pharmaceutical development: The good, the should	e could and the
	Kathryn Chapman, NC3Rs, United Kingdom	
10:25	S28-2 > EEG markers of motor activity in wild type and TASTPM mice: A multi-labor sharing experience in the framework of PharmaCog project Claudio Babiloni, University Sapienza of Rome, Italy	atory data-
10:45	S28-3 • How open research can make academia and animal use more efficient Mark Hahnel, <i>Figshare, United Kingdom</i>	
11:05	<b>S28-4 &gt; Data management for the international mouse phenotyping consortium</b> Andrew Blake, International Mouse Phenotyping Consortium, United Kingdom	
11:25	Questions and discussion	
Session 04	- Europe - USA harmonisation on health monitoring for rodent shipments and	
	harm-benefit analysis in ethical review	▶ Room 116+117
	Chairpersons 🕨 Javier Guillén / Kathy Laber	
10:00	S04-1 > The AALAS-FELASA Liaison Body Javier Guillén, AAALAC International, Spain, and Kathy Laber, Medical University Sou	
10:20	S04-2 > Update from the AALAS-FELASA Working Group on Health Monitoring of Ro Transfer Jan-Bas Prins, Leiden University Medical Centre, The Netherlands	odents for Animal
10:55	S04-3 • Working Group on Harm-Benefit Analysis Christian Newcomer, AAALAC International, USA	
11:30	Plenary Lecture	▶ Room 116+117
11:50	PL2 > High throughput and traditional phenotyping, how international efforts can he Cory Brayton, Johns Hopkins University, USA	
	Introduced by 🕨 Xavier Cañas	
12:30	Poster presentation (odd numbers) and lunch > Exhibition Area	



Session 06	- Quality assurance of education and training in LAS • Room 114
	Chairpersons > Bryan Howard / Ana Isabel Santos
14:00	<b>Introduction</b> Bryan Howard, FELASA Education and Training Board and Ana Isabel Santos, Faculty of Medical Sciences, UNL, Portugal
14:05	S06-1 Examination strategies in laboratory animal science Axel Kornerup Hansen, Faculty of Life Sciences, Denmark
14:30	S06-2 Engaging with students: Obtaining and using feedback to enhance quality Anna Olsson, Institute for Molecular and Cell Biology, Portugal
14:55	S06-3 A simple modular scheme of education in animal experimentation: The Swiss example Philippe Bugnon, <i>Zurich University, Switzerland</i>
15:20	Questions and discussion
Session 29	- Experimental models and the microbiota   • Room 115
	Chairpersons > André Bleich / Marion Berard
14:00	S29-1 Modelling the host-microbial superorganism. Taking experimental animal husbandry to the next level Kathy McCoy, University of Bern, Switzerland
14:30	S29-2 > A European Consortium for Gnotobiology Marion Berard, Institut Pasteur, France
14:45	<b>S29-3 ▶ Hygienic monitoring of germ-free and gnotobiotic animals</b> Werner Nicklas, <i>German Cancer Research Center, Germany</i>
15:00	S29-4 > A multi-hit model: The IL10-deficient mouse model for inflammatory bowel disease André Bleich, Hannover Medical School, Germany
15:15	S29-5 > ORAL COMMUNICATION: Gut commensal microbiota and TLR expression variations in rats depending on commercial origin Sandra Barbosa, Autonomous University of Barcelona, Spain
15:23	S29-6 • ORAL COMMUNICATION: The phenomenon of bacterial translocation from the gut in experimental fungal infection neutropenic animal models Labros Sabracos, University Hospital Attikon, Greece
Session 17	- Adapting to zebrafish: Facilities and management   • Room 116+117
	Chairpersons 🕨 Juan Martín Caballero / Marco Brocca
14:00	<b>S17-1 ▶ Setting up a zebrafish facility</b> Juan Ramos, <i>PRBB, Spain</i>
14:20	S17-2 > Setting up a new zebrafish facility inside an existing laboratory animal area, challenges and results Isabelle Grandiean. Institute Curie. France

- 14:40 S17-3 > Zebrafish breeding, try to raise awareness through new technologies and improvements To be confirmed
- 15:00 S17-4 > A modern way of managing a zebrafish facility, focus on improving zebrafish nutrition and tanks washing with detergents
  - Erik Sanders, Washington University, USA
- **15:20** Questions and discussion



Session 05	- From national legislation to the new European Directive 2010/63 in Eastern European countries ► Room 119
	Chairpersons 🕨 Nikos Kostomitsopoulos / Timo Nevalainen
14:00	S05-1 > Implementation of the new European Directive 2010/63 in Baltics Osvaldas Ruksenas, Vilnius University, Lithuania
14:15	S05-2 From national legislation to the new European Directive 2010/63 in Republic of Bulgaria Petya Petkova, Bulgarian Food Safety Agency, Bulgaria
14:30	<b>S05-3 ▶ Hungary</b> Gabor Bognar, <i>Gedeon Richter P.I.c. R&amp;D, Hungary</i>
14:45	S05-4 ▶ Implementation of the Directive 2010/63 to the Polish law Marta Gajewska, Curie Memorial Cancer Center and Institute of Oncology, Poland
15:00	<b>S05-5 ▶ Romania</b> Bogdan Marinescu, <i>Victor Babes Institute, Romania</i>
15:15	Questions and discussion
15:30	Coffee break > Exhibition Area
Session 18	- Human resources management   Room 114
	Chairpersons ▶ Joana Visa / Jussi Helppi
16:00	S18-1 > Managing laboratory animal facilities with the right attitude. Create a management culture that works Jussi Helppi, MPI-CBG, Germany
16:40	S18-2 > Human resource management in a transgenic core facility Ronald Naumann, MPI-CBG, Germany
17:05	<b>S18-3</b> • Consider the welfare not only of animals, but of people and machines as well in the vivarium! Bruce W. Kennedy, <i>California State Polytechnic University – Office of Research, USA</i>
Session 30	- Experimental models for the study of metabolic diseases
	Chairpersons > Ricardo Afonso / Sam Virtue
16:00	S30-1 ▶ An indirect calorimeter for 200 euros? Sam Virtue, Addenbrooke's Hospital Cambridge, United Kingdom
16:20	S30-2 • Rising to the challenge of EU/2010/63: Reducing severity of animal studies of diabetes Nuno Franco, <i>IBMC</i> , <i>Portugal</i>
16:40	S30-3 > Rat models of obesity used for insulin resistance studies: A comparison from the user's perspective Ricardo Afonso, New University of Lisbon, Portugal
17:00	S30-4 > ORAL COMMUNICATION: Correlation between metabolic syndrome and renal injury in porcine model Diego Celdrán, Centro de Cirugía de Mínima Invasión Jesús Usón, Spain
17:10	S30-5 > ORAL COMMUNICATION: The influence of oral LPS on development of glucose intolerance in high-fat fed mice Merete Ellekilde, University of Copenhagen, Denmark
17:20	Questions and discussion



Session 07 ·	- Pain in laboratory animals	▶ Room 116+117
	Chairpersons 🕨 Ignacio Álvarez / Javier Benito	
16:00	<b>S07-1 &gt; Pain in laboratory animals</b> Ignacio Álvarez, <i>Complutense University, Spain</i>	
16:05	<b>S07-2 New approaches to pain assessment in laboratory animals</b> Matthew Leach, <i>Newcastle University, United Kingdom</i>	
16:45	S07-3 > Chronic pain assessment Javier Benito, Complutense University, Spain	
17:05	S07-4 Sustained release analgesia in laboratory animals Patricia Foley, University of Virginia, USA	
17:25	Questions and discussion	



Wednesday ► 12 JUNE

Session 08	- ICLAS, an organisation serving in a global context   • Room 114
	Chair > Marion Berard
09:00	S08-1 > International Council for Laboratory Animal Science (ICLAS): A global umbrella serving all. Patri Vergara, ICLAS President, Spain
	<b>In Memoriam Tatsuji Nomura</b> Naoko Kagiyama <i>, Central Institute for Experimental Animals, Japan</i> .
	<b>ICLAS Laboratory Animal Quality Programmes</b> Patri Vergara, <i>Autonomous University of Barcelona, Spain</i>
09:25	S08-2 > ICLAS Ethics and Animal Welfare Committee: Ethical guidelines for researchers, editors and reviewers Hansjoachim Hackbarth, <i>Hannover Faculty of Veterinary, Germany</i>
09:40	S08-3 > ICLAS European Training Fellowship Programme Javier Guillén, AAALAC International, Spain
09:55	<b>S08-4 &gt; How ICLAS can help in Europe: The Turkish example</b> Siyami Karahan, <i>Kirikkale University, Turkey</i>
10:10	<b>S08-5 &gt; ICLAS FELASA fellowship / presentation of the laureates</b> Ann-Christine Eklöf, <i>Karolinska Institutet, Sweden</i> ; and Nikos Kostomitsopoulos, <i>Foundation of</i> <i>Biomedical Research of the Academy of Athens, Greece</i>
10:25	Questions and discussion
Session 19	- Biosafety and biocontainment in high-risk experimental models • Room 115
	Chairpersons > David Solanes / Uwe Mueller-Doblies
09:00	S19-1 • Engineering controls in animal facilities: Certainty of safety versus simplicity Neil Walls, Neil Walls Consulting, Australia
09:30	S19-2 > Meeting the challenges of managing different levels of biological risks in multi user facilities Uwe Mueller-Doblies, The Pirbright Institute, United Kingdom
10:00	S19-3 • ORAL COMMUNICATION: Sterilization of blower units in a new ABSL 3 containment using hydrogen peroxide: Cycle development and validation Bastian Pasche, Centre for Infection Research, Germany
10:10	S19-4 > ORAL COMMUNICATION: Doing the right things the right way. The importance of safe and secure research James Welch, <i>Elizabeth R Griffin Research Foundation</i> , USA
10:20	Questions and discussion
Socion 27	- Neurodegenerative diseases: Design of shared units
Session 27	Chairpersons ► Rony Kalman / Ignasi Sahún
09:00	S27-1 Mouse models of neurodegenerative diseases: Behavioural approach
07.00	Ignasi Sahún, Barcelona Scientific Park, Spain.
09:30	S27-2 > Primate models of Parkinson's disease: Why? How? and refinement Hagai Bergman, The Hebrew University, Israel.
10:00	<b>S27-3 ► Care and management of animals models of neurodegenerative disease</b> Howard G. Rush, University of Michigan, USA.
10:30	Coffee break > Exhibition Area

### Wednesday ► 12 JUNE



Session 09	- Pigs as research models   • Room 114
	Chairpersons > Peter Clausing / Peter Glerup
11:00	S09-1 • Genetically engineered pig models for diabetes research Eckhard Wolf, University of Munich, Germany
11:40	S09-2 > Pigs as models in wound healing Peter Glerup, CiTOX LAB Scantox, Denmark
12:00	S09-3 > PET imaging in Göttingen minipig models of neurological and neuropsychiatric disorders and therapeutic interventions Anne M. Landau, <i>Aarhus University, Denmark</i>
12:20	Sonja Antonides, University of Utrecht, The Netherlands
Session 32	<ul> <li>Discovery and toxicology: Alternative methods</li> <li>(preliminary assays to reduce the use of lab animals)</li> <li>Room 115</li> </ul>
	Chairpersons 🕨 Antonio Martínez Escandell / María José Alonso
11:00	<b>S32-1 &gt; Current status of nanopharmaceuticals</b> María José Alonso, University of Santiago de Compostela, Spain
11:15	<b>S32-2 &gt; What are cells telling us about nanomaterial safety?</b> Peter Wick, <i>Empa Materials Science &amp; Technology, Switzerland</i>
11:45	<b>S32-3 &gt; Nanoparticles as a valuable tool for in vivo toxicology</b> Alfonso Garcia-Bennett, <i>Uppsala University, Sweden</i>
12:00	<b>S32-4 › Early detection of hepatotoxicity in drug development process</b> María José Gómez-Lechón, <i>Hospital Universitario "La Fe", Spain</i>
12:15	S32-5 > The International Consortium for Innovation and Quality in Pharmaceutical Development (IQ) in 3Rs leadership group: The pharmaceutical industry's promotion of alternatives Joachim Coenen, <i>Merck KGaA, Germany</i>
Session 20	- Transportation of laboratory animals: Legal, health, welfare and supply issues > Room 116+117
	Chairpersons ▶ Magda Chlebus / Susanna Louhimies
11:00	S20-1 > Transportation of laboratory animals: Research, welfare and legal aspects Magda Chlebus, <i>EFPIA, Belgium</i>
11:05	<b>S20-2 &gt; Continuity of supply: A wake up call</b> Kirk Leech, The Association of the British Pharmaceutical Industry (ABPI), United Kingdom
11:15	<b>S20-3 • Relevant legislation and guidelines</b> Oscar Dignoes, <i>Ministry of Agriculture, Spain</i>
11:30	<b>S20-4 • An integrated strategy to support airline companies</b> François Lachapelle, <i>GIRCOR, INSERM, France</i>
12:45	S20-5 • The importance of optimized global transport of nonhuman primates Lars Mikkelsen, <i>MSD, Singapore</i>
12:00	Questions and discussion
12:30	Poster presentation (even numbers) and lunch > Exhibition Area



### Wednesday ► 12 JUNE

Session 21	- Quality implementation and assessment in animal units	▶ Room 114
	Chairpersons 🕨 Anne-Dominique Degryse / Antonio Martínez-Escandell	
14:00	S21-1 • ISO and GLP quality management systems in the context of regulatory require Antonio Vila-Coro, Vivotecnia, Spain	ments
14:20	S21-2 > GLP and AAALAC: Competitors or partners? Opportunities and challenges of G and AAALAC accredited organizations Joachim Coenen, Merck KGaA, Germany	LP certified
14:40	<b>S21-3 ▶ AAALAC accreditation in a university environment</b> Harry van Herck, Academic Medical Center University of Amsterdam, The Netherlands.	
15:00	S21-4 > Continuous improvement of quality in animal care and use programs: Strategies animal welfare and research using quality improvement techniques with performance state Hilton Klein, Harlan Laboratories, USA	•
15:20	Questions and discussion	
Session 33	- Use of stem cells in disease animal models	▶ Room 115
	Chairpersons > Daniela Salvatori / Montserrat Rigol	
14:00	<b>S33-1 • Novel animal models for blood and immune disorders and stem cell biology</b> Frank Staal, <i>Leiden University Medical Center, The Netherlands</i>	
14:20	S33-2 ▶ Replacement of the in vivo assay "teratoma" with a new in vitro bioinformatic testing pluripotency of stem cells: Development and validation Daniela Salvatori, Leiden University Medical Center, The Netherlands	assay for
14:40	S33-3 > The porcine myocardial infarction model: Surgical approach and tissue engine Carolina Gálvez, Institut Germans Trias i Pujol, Spain	ering
15:00	<b>S33-4 &gt; Murine model of myocardial infarction: Advantages and pitfalls for cardiac reg</b> Carolina Soler-Botija, <i>Hospital Universitari Germans Trias i Pujol, Spain</i>	jeneration
15:20	Questions and discussion	
Session 10	- Health and welfare in NHP: A review	Room 116+117
	Chairpersons > Thierry Decelle / Jan Langermans	
14:00	S10-1 • Breeding colony and pathology problems Ivan Balansard, CNRS Marseille, France	
14:20	S10-2 ▶ NHPs quarantine and health screening Marielle Vandenbunden, University Louis Pasteur, France	
14:40	<b>S10-3 &gt; Macaque breeding management: Introduction, success rate and tenure length</b> Annet Louwerse, <i>Biomedical Primate Research Centre, The Netherlands</i>	of alphamales
15:00	<b>S10-4 • Negative and positive reinforcement – A way to avoid unnecessary suffering</b> Eva-Marie Wergard, <i>Karolinska Institute, Sweden</i>	
15:15	<b>S10-5 • Defining, observing and assessing abnormal behaviour in nonhuman primates</b> Kathryn Bayne, <i>AAALAC International, USA</i>	5
15:30	Coffee break > Exhibition Area	

#### Wednesday ► 12 JUNE



Session 11	- Health and welfare in GM rodents: A review Room	114
	Chairpersons > Marcello Raspa / Ricardo Feinstein	
16:00	S11-1 • Revision of FELASA guidelines for health monitoring of rodents and rabbits Ricardo Feinstein, National Veterinary Institute, Sweden	
16:30	S11-2 > Rodent health monitoring: Critical steps with regard to technical development and innovation André Bleich, Institute for Laboratory Animal Science, Hannover Medical School, Germany	on
16:50	<b>S11-3 </b> Health and welfare in genetically altered models: Developing mouse welfare assessmen James Bussel, Wellcome Trust Sanger Institute, United Kingdom	ts
16:10	S11-4 • Redesigning health monitoring: A win-win experience for 3Rs and resources Dolores Bonaparte, Instituto de Medicina Molecular, Portugal	
16: 20	S11-5 > Potential vertical transmission: The case of mouse Norovirus Ferdinando Scavizzi, National Research, CNR, Italy	
Session 34	- Cardiovascular models: Refinement in experimental surgery in large animals	115
	Chairpersons ▶ Mª Fernanda Martín Cancho / Dara Kraitchman	
16:00	S34-1 > Animal models of cardiovascular disease for research and training Verónica Crisóstomo, Minimally Invasive Surgery Centre "Jesús Usón", Spain	
16:30	<b>S34-2 &gt; Cardiovascular imaging in large animal models</b> Dara Kraitchman, <i>Johns Hopkins University, USA</i>	
17:00	S34-3 • Cardiovascular research: An overview of minipigs and pigs as animal models Niels-Christian Ganderup, <i>Ellegaard Göttingen Minipigs A/S, Denmark</i>	
Session 22	- Approaches to ethical review after the implementation of the	
	European Directive 2010/63/EU    Room 116+	117
	Chairpersons 🕨 Martje Fentener van Vlissingen / Sally Robinson	
16:00	S22-1 • When is it animal testing morally acceptable? Henriette Bout, University of Amsterdam, The Netherlands	
16:30	S22-2 • Overview of project (ethical) evaluation in Europe under the Directive 2010/63/EU Javier Guillén, AAALAC International, Spain	

16:55 S22-3 > Diversity in the implementation and organisation of project evaluations across some European countries: Round-table session Sally Robinson, AstraZeneca, United Kingdom; Martje Fentener van Vlissingen, Erasmus Laboratory Animal Science Center EDC, The Netherlands; Javier Guillén, AAALAC International, Spain; Thierry Decelle, Sanofi Pasteur, France; Cornelia Exner, Philipps-Universität Marburg, Germany



### Thursday ► 13 JUNE

Session 23	- Sperm cryopreservation in non-rodent species	▶ Room 115
	Chairpersons 🕨 Pilar Pallarés / Fiammetta Berlinguer	
08:30	<b>S23-1 ▶ It is possible to predict semen-fertilizing ability after cryopreservation?</b> Fiammetta Berlinguer, <i>University of Sassari, Italy</i>	
09:00	<b>S23-2 ▶ Sperm cryopreservation in wild animals</b> M <sup>a</sup> Jesús Sánchez-Calabuig, <i>INIA, Spain</i>	
09:30	<b>S23-3 &gt; State of the art of the cryopreservation of fish sperm</b> Elsa Cabrita, ICMAN-Institute of Marine Science of Andalusia, Spain	
Session 35	- Genetically altered models. Why research does not always translate	▶ Room 116+117
	Chairpersons 🕨 Belén Pintado / Jan-Bas Prins	
08:30	S35-1 ▶ Genetically altered models: Do they translate? An introduction Jan-Bas Prins, Leiden University Medical Centre, The Netherlands	
08:45	S35-2 > Both coding and non-coding genomic DNA sequences contribute to define diversity and the phenotype in mice Lluís Montoliu, CNB-CSIC, Spain	the genetic
09:15	<b>S35-3 • More knowledge with fewer animals in less time</b> Ivo Huijbers, The Netherlands Cancer Institute, The Netherlands	
09:45	S35-4 > ORAL COMMUNICATION: Managing genetic drift in mice and rats models c Emmanuel Gomas, Charles River Laboratories, France	olonies
09:55	Questions and discussion	
10:00	<b>Coffee break</b> ▶ Exhibition Area	

### Thursday ► 13 JUNE



Session 12	- Farm animals and poultry as research models	▶ Room 114
	Chairpersons > Samuel Vidal / Ricard March	
10:30	S12-1 > The management of farm animals in a BSL 3 conditions Patrick Hardy, AFSTAL, France	
11:00	S12-2 > The Guide for the care and use of agricultural animals in research and tea utilization to provide guidance in agricultural and biomedical research Bart Carter, South Western Medical Center, USA	ching and its
11:30	S12-3 Animal welfare assessment at experimental facilities in dairy cattle Isabel Blanco Penedo, <i>IRTA, Spain</i>	
11:45	<b>S12-4 • Management of poultry in research</b> Roser Dolz, <i>Universitat Autónoma de Barcelona, Spain</i>	
Session 24	- Disaster planning	▶ Room 115
	Chairpersons 🕨 Ernesto de la Cueva / Thierry Decelle	
10:30	<b>Introduction</b> Ernesto de la Cueva, Charles River, Spain	
10:35	<b>S24-1 • Disaster plan and crisis preparedness</b> Thierry Decelle, <i>Sanofi Pasteur, France</i>	
11:15	<b>S24-2 &gt; Don't Panic! Dealing with the disaster</b> Adrian Deeny, University College London, United Kingdom	
11:35	S24-3 • Crisis communications Melvyn Young, Novartis International AG, Switzerland	
11:55	Questions and discussion	
Session 36	- Managing genetically altered colonies	▶ Room 116+117
	Chairpersons > Belén Pintado / Jan-Bas Prins	
10:30	<b>S36-1 ▶ Transgenic mouse colony management</b> Heather Marshall, Stowers Institute for Medical Research, USA	
11:00	S36-2 ▶ Archiving genetically altered lines: When and how to create your backup Belén Pintado, Centro Nacional de Biotecnologia, Spain	
11:15	<b>S36-3</b> • Genetic contamination, there is always the risk. The importance of genetic Jan-Bas Prins, Leiden University Medical Centre, The Netherlands	monitoring
11:30	<b>To outsource or not to outsource, that is the question</b> Round table and discussion	
12:00	FELASA 2013 Award & Plenary Lecture PL3 ▶ The two Rs approach Timo Nevalainen, University of Eastern Finland	▶ Room 116+117
	Introduced by > Jan-Bas Prins	
13:00	Closing Ceremony	▶ Room 116+117

Workshops





Description > Laboratory animal science (LAS) is confronting major changes due to the new Directive 2010/63/EU and the recent advances in new technologies to deliver theoretical and practical education and training. The laboratory animal science community will be faced with new challenges to meet the objectives of the Directive but can see this as an opportunity to further advance laboratory animal science training and education. While excellent courses exist, not enough LAS programs are available across Europe at present. Online courses can help close this gap, as they are available anywhere at any time and are not limited to a certain number of participants. Further, they offer more flexibility for both teacher and student. Theoretical knowledge and practical aspects of LAS can be taught at a students' own study pace. In cases where course providers want to offer class-room teaching the educational quality can be improved by offering e-learning as preparation, thus spending more time discussing the topics with the students. The aim of the workshop will be to discuss the challenges and opportunities that e-learning in LAS will provide.

#### 09:00-12:00 Workshop 04 - Planning an effective animal imaging unit

Chair 🕨 Hanna-Marja Voipio

Description > In recent years, live animal imaging facilities for diverse type of scientific work have been built and planning of new facilities is in progress. Organizing the practical work and logistics in these imaging centres is a demanding task with many challenges. Transporting animals from one institute to another poses a risk of spreading infectious diseases. What happens to your animal model in a multimodality, multisite study? The seminar focuses on practical challenges how to plan an imaging unit within the old facility. Target group: Unit managers, planners, research personnel of laboratory animal facilities and veterinarians working with animal imaging techniques.

#### 09:00-12:00 Workshop 07 - Experimental design

Chairpersons > Manuel Berdoy / Marlies Leenaars

Description → Statistics and experimental design in biology are mostly about logic, common sense and using simple techniques (e.g. randomization, blinding) to produce un-biased experimental results. This is good news because this should be relatively straightforward. Yet this is where the biggest blunders are made by professional biologists. This hands-on workshop aims to identify these traps, address how we can best apply experimental design to animal experiments, and describe how design, and its proper reporting, is important when carrying out Systematic Reviews. And we aim to have fun in the process, thereby also demonstrating that the words "*enjoyment*" and "*statistics*" can belong in the same sentence, at least sometimes. The workshop is aimed at scientists performing animal research, from research students to post-doc academics and industry based scientists.

- 09:00 WS07-1 > The essence of experimental design and statistics Manuel Berdoy, Oxford University, United Kingdom
- 09:30WS07-2 > Experimental design practical<br/>Simon Bate, Statistical Sciences, Glaxo SmithKline, United Kingdom11:30WS07-3 > Systematic reviews to help experimental design
  - Marlies Leenaars, SYRCLE, Radboud University Nijmegen, The Netherlands

14:00-15:30	Workshop 02 - How to present our work to Society?	▶ Room 118
	Chair 🕨 Bella Williams	
	Description > The session will be on communication of work on animal research and animal welf to society.	
14:00	WS02-1 > Helping the public to understand animal research Wendy Jarrett, Understanding Animal Research, United Kingdom	
14:30	WS02-2 > Staying silent does not help – Ignoring the media is the wrong thing to do Edward Sykes, Science Media Centre, United Kingdom	I
15:00	WS02-3 Communications and animal welfare Barney Reed, Royal Society for the Prevention of Cruelty to Animals (RSPCA), United	Kinadom



▶ Room 114

▶ Room 115



08:00-09:30	Workshop 05 - Design of databases according to the different management needs    Room 118
	Chair 🕨 Jan-Bas Prins
	Description > The objectives are to provide an overview of options and available products in the market: How they address general and more specific management needs, but also to show, which customer demands could be regarded as realistic and those that are not so realistic and the customer's 'does and don'ts' from the suppliers perspective. The workshop is aimed at those involved in designing and implementing " <i>registration software</i> " in animal facilities.
08:00	WS05-1 > Design of animal registration software: One size fits all, tailor made or somewhere in
	<b>between?</b> Jan-Bas Prins, <i>Leiden University Medical Center, The Netherlands</i>
10:00-11:30	Workshop 08 - Meet the Editor    Room 118
	Chairpersons > Beat Riederer / Merel Ritskes-Hoitinga
	Description → The Journal "Laboratory Animals" has seen some recent changes and it is therefore important to open the dialogue with affiliated societies, publisher and authors. The FELASA meeting provides the ideal platform for discussion, to compare point-of-views and sense the expectations of authors concerning the future role and position of the journal. In this workshop members of LAS associations are invited to provide input to the editorial board members and the publisher and to have interactive discussions on these points.
10:00	WS08-1 ▶ Publishing your research in a peer-reviewed journal Sponsored by ▼ Louise Skelding, SAGE, United Kingdom
10:15	WS08-2 Meet the editor
	Beat Riederer, Laboratory Animals Editorial Board, Switzerland
10:30	<b>WS08-3 &gt; What is the value of systematic reviews of animal studies?</b> Merel Ritskes-Hoitinga, Laboratory Animals Editorial Board, The Netherlands
10:45	WS08-4 > Ethics in animal research and publishing Anna Olsson, Laboratory Animals Editorial Board, Portugal
11:00	Questions and discussion
14:00-15:30	Workshop 06 - Funding opportunities for the European Laboratory Animal Science Community
	Chair > Gregory Boivin
	Description > The objective of the workshop is to familiarize the European scientific community about the funding opportunities in the United States. Three research foundations will be presented by representatives of each organization with information on their target audience, the missions of the foundations, and application procedures. This will be followed by a presentation on how to write a grant for these entities. Following the presentations ample time will be available for questions and answers with the panel. The expected audience includes scientists, veterinarians, veterinary students, and animal care staff.
14:00	Introduction Gregory Boivin, Wright State University, USA
14:05	WS06-1 ▶ Applying for a grant to the ACLAM Foundation Robert J Russell, <i>RJ Russell Associates, USA</i>
14:20	WS06-2 > Applying for a grant to the GLAS Foundation Claire Hankenson, University of Pennsylvania, USA
14:35	WS06-3 > Applying for a grant to CAAT Joanne Zurlo, Johns Hopkins Bloomberg School of Public Health, USA
14:50	WS06-4  Great writing tips and how to avoid some pitfalls Gregory Boivin, Wright State University, USA
15:05	Questions and discussion
17:30-19:30	Workshop 11 - Meeting of the T&T Board with FELASA accredited course organisers > Room 118
	(by invitation only)

### Workshops





09:00-12:00	Workshop 03 - Aspects of genetic monitoring in rodents	▶ Room 118
	Chairpersons 🕨 Ana Pérez / James Fahey	
	Description > The main objectives of this workshop are: (I) To know why it is important monitoring and how just phenotype is not sufficient to monitor genetic quality. (II) To c the genetic background and the mutation through the use of international nomencl explain breeding for inbred, outbreds and speed congenic techniques specific for est maintaining congenic strains and closed colony strains. (IV) To explain classical (ordin testing biochemical and immunological markers and advanced methods testing SSI which are applicable for genetic monitoring. (V) To explain new policies defining closed congenic drift is real and has to be faced.	learly identify ature. (III) To ablishing and ary) methods LP and SNPs
09:00	WS03-1 > Why genetic monitoring? James Fahey, Jackson Labs, USA	
09:30	WS03-2 > Introduction into the international nomenclature of laboratory rodents Janice Pendola, <i>Jackson Labs, USA</i>	
09:50	WS03-3 • Genetic crosses for establishing and maintaining inbred, closed colony stra and congenics Ana Pérez, <i>Taconic, USA</i>	ins, outbreds
10.30	Break	
10:45	WS03-4 > Genetic techniques: Classical and advanced methods Ana Pérez, <i>Taconic, USA</i>	
11:05	<b>WS03-5 </b> Genetic monitoring for inbreds and closed colony strains Hideki Katoh, Hamamatsu Universitary School of Medicine, Japan	
11:35	WS03-6 • Genetic monitoring and genetic drift Michael Wiles, The Jackson Laboratory, USA	

#### 11:00-12:30 Workshop 09 - Practical pathology for research and phenotyping

#### Chair > Cory Brayton

Description → The workshop will provide an overview of: (I) Systematic rodent (mouse) gross examination, including common pathology findings. (II) Systematic dissection and trimming suggestions. (III) Systematic approach to basic microscopic anatomy, and common histopathology findings. (IV) Text and online resources. Familiarity with basic rodent gross anatomy is expected. Techniques and information will be useful to technicians who collect or test tissue specimens, technicians, veterinarians, scientists aiming to submit tissues for pathology, conduct pathology assessments, or interpret pathology reports or results in a research setting that uses pathology for diagnosis (of ill or dead animals), or for phenotyping or other scientific data.

- 11:00 WS09-1 Rodent (mouse) gross examination, including common pathology findings
- 11:30 WS09-2 > Systematic dissection and trimming
- 12:00 WS09-3 > Systematic approach to basic microscopic anatomy, and common histopathology findings

#### 14:00-15:30 Workshop 10 - Towards evidence-based translational research

▶ Room 118

▶ Room 119

#### Chairpersons > Rob de Vries / Carlijn Hooijmans

Description > The aims of our workshop are (1) to let the participants explore which factors explain why the results of animal experiments often do not get reproduced in clinical trials in humans, (2) to discuss with the participants to what extent these factors are avoidable and which stakeholders may play a role in avoiding these factors and (3) to get the participants acquainted with several tools, developed in the context of systematic reviews, that may be helpful for improving the translation of animal data to humans. The target audience are persons directly or indirectly involved in animal experiments the results of which are likely to be translated to the clinic.

### Satelite Workshop

Monday ► 10 JUNE



#### 09:00-12:00 SW01 - Mouse sperm cryopreservation

▶ Faculty of Medicine. University of Barcelona

Chairpersons 🕨 Jorge Sztein / Jesús Martínez Palacio

Description > The main objective of this workshop is to acquaint students on reliable methods of mouse sperm cryopreservation, Jax and Nakagata, without requiring appliances or large investments to establishing a program at their centers. This course involves manipulation of animals and LN2.





## Industry Workshops

### Monday ► 10 JUNE

14:00-15:30	New technologies in rodent and zebrafish health monitoring	▶ Room 119		
	<b>New technologies in rodent health monitoring</b> Matthew H. Myles, <i>Head of Idexx Radil, Serology R&amp;D</i>	Organised by  IDEXX BioResearch		
	<b>Health monitoring for zebrafish</b> Lela Riley, <i>Director and General Manager, Idexx Radil BioRes</i>	earch Services		
16:00-17:30	Assessing automation in animal facility projects	▶ Room 118		
	Allergies and MSD in LA facilities a prospective from Orga an occupational medicine point of view Massimo Corradi, Department of Clinical Medicine, Nephrology and Health Sciences, University of Parma, Italy	nised by		
	<b>How to solve allergies and MSD with automation</b> Steve Leary, Division of Comparative Medicine, Washington University, St. Louis, Missouri, USA			
	Faster, better & safer: automation at Imperial College, London: An overview of buildings; related drivers and decision making process to invest in automation Mandy Thorpe, Central Biomedical Services, Imperial College, London UK			
	Integral cage change procedure and consequent work load in the washing area, new automation technologies to solve the issue Marco Pagani, Tecniplast Corporate Offices, Buguggiate, Italy			
Tuesday	► 11 JUNE			
Tuesday	Getting beyond compliance - Development in rodent cage de	sign and care procedures ► Room 118		
	Getting beyond compliance - Development in rodent cage de	nised by > Procedures > Room 118		
	Getting beyond compliance - Development in rodent cage de Chair → James Wallace Orga	nised by > TECNIPLAST		
	Getting beyond compliance - Development in rodent cage de         Chair ▶ James Wallace       Orga         Science Associates, United Kingdom       "Mind my head" - Improved welfare for head mounted rats v         Caroline Chadwick, Biomedical service Unit; University of Birri       Effect of two different individually ventilated cage (IVC) sy and anxiety	nised by > TECNIPLAST		
	Getting beyond compliance - Development in rodent cage de         Chair > James Wallace       Orga         Science Associates, United Kingdom       "Mind my head" - Improved welfare for head mounted rats v         Caroline Chadwick, Biomedical service Unit; University of Birr         Effect of two different individually ventilated cage (IVC) sy and anxiety         Oliver Burman, School of Life Sciences, University of Lincoln,	nised by > TECNIPLAST with the GR1800 "Double Decker cage" mingham, United Kingdom stems on laboratory mouse behavior Riseholme Park, United Kingdom		
	Getting beyond compliance - Development in rodent cage de         Chair ▶ James Wallace       Orga         Science Associates, United Kingdom       "Mind my head" - Improved welfare for head mounted rats v         Caroline Chadwick, Biomedical service Unit; University of Birri       Effect of two different individually ventilated cage (IVC) sy and anxiety	nised by > TECNIPLAST with the GR1800 "Double Decker cage" mingham, United Kingdom stems on laboratory mouse behavior Riseholme Park, United Kingdom for personnel. A comparison between		
	Getting beyond compliance - Development in rodent cage de         Chair > James Wallace       Orga         Science Associates, United Kingdom       "Mind my head" - Improved welfare for head mounted rats v         Caroline Chadwick, Biomedical service Unit; University of Birri         Effect of two different individually ventilated cage (IVC) sy         and anxiety         Oliver Burman, School of Life Sciences, University of Lincoln,         Exposure and density of rat allergens in an animal room and         novel IVC equipment for rats and conventional open cages	nised by > TECNIPLAST with the GR1800 "Double Decker cage" mingham, United Kingdom stems on laboratory mouse behavior Riseholme Park, United Kingdom for personnel. A comparison between m Sweden mriched housing conditions and longi-		
	Getting beyond compliance - Development in rodent cage de         Chair > James Wallace       Orga         Science Associates, United Kingdom       "Mind my head" - Improved welfare for head mounted rats v         Caroline Chadwick, Biomedical service Unit; University of Birr         Effect of two different individually ventilated cage (IVC) sy         and anxiety         Oliver Burman, School of Life Sciences, University of Lincoln,         Exposure and density of rat allergens in an animal room and         novel IVC equipment for rats and conventional open cages         Ann Christine Eklöf, Karolinska University Hospital, Stockhol         Improving the welfare of animal research by standardized e         tudinal investigation of their behavioral display	nised by > TECNIPLAST with the GR1800 "Double Decker cage" mingham, United Kingdom stems on laboratory mouse behavior Riseholme Park, United Kingdom for personnel. A comparison between m Sweden mriched housing conditions and longi-		
	Getting beyond compliance - Development in rodent cage de         Chair > James Wallace       Orga         Science Associates, United Kingdom       "Mind my head" - Improved welfare for head mounted rats v         Caroline Chadwick, Biomedical service Unit; University of Birr         Effect of two different individually ventilated cage (IVC) sy         and anxiety         Oliver Burman, School of Life Sciences, University of Lincoln,         Exposure and density of rat allergens in an animal room and         novel IVC equipment for rats and conventional open cages         Ann Christine Eklöf, Karolinska University Hospital, Stockhol         Improving the welfare of animal research by standardized e         tudinal investigation of their behavioral display	nised by > TECNIPLAST with the GR1800 "Double Decker cage" mingham, United Kingdom stems on laboratory mouse behavior Riseholme Park, United Kingdom for personnel. A comparison between m Sweden mriched housing conditions and longi-		

## Industry Workshops



### Thursday ► 13 JUNE

08:30-10:00	Making sense of mouse nomenclature, genetic background effects and         the importance of genetic stability         Noom 118	
	Charles Clifford / Thomas Volz, <i>Charles River</i> Janice Pendola / Barbara Witham, <i>The Jackson Laboratory</i> Organised by Charles river	
08:30-10:00	Cryopreservation of rodents, reproductive sciences and colony management of         transgenic rodents - 3R management         Noom 119	
	Advanced cryopreservation methods: New ways to manage genetically modified mouse colonies Organised by > Stephen Linnel, MBA, Senior Business Unit Manager, Reproductive Sciences and Breeding Services The Jackson Laboratory, Bar Harbor, Maine, USA	
	<b>Reproductive sciences: Another method to manage your breeding of transgenic rodents</b> Karim Mesbah, <i>PhD, Director Reproductive Sciences, Customized Breeding Department Janvier, France</i>	



### Awards

### Thursday ▶ 13 JUNE

#### 12:00-13:00 2013 FELASA Award

FELASA established in 2007 a triennial Award to recognize and reward a defined piece of original scientific work on any aspect of laboratory animal science, housing, husbandry or welfare that could lead or has led to changes or improvements into how animals are utilized in research, testing or education within Europe and that is consistent with FELASA's aims and objectives.

The recipient of the 2013 FELASA Award is **Timo Nevalainen**, who will give a plenary lecture at the award ceremony.

#### 13:00-13:30 Harlan Best Free Communication Award (during the Closing Ceremony)

One of the objectives of the company Harlan Laboratories Models S.L. is to promote scientific research related to the rational use of laboratory animals. For this reason, Harlan will give a new award, in this instance for the best free communication presented at the 12<sup>th</sup> FELASA SECAL Congress.

#### **SECAL Best Poster Awards**

All presented posters will be eligible for nomination for these awards, provided they are visible throughout the whole Congress and the authors are present during the Closing Ceremony.

A Poster Award Committee will review all the posters during the Congress. Selection will be based on the quality of the contents, originality and clarity of the presentation.

The winners (first and second prize) will be announced during the Closing Ceremony on Thursday 13 June.

### **Publications**

The abstracts of the **12<sup>th</sup> FELASA SECAL Congress** have been published by the **Journal of the American Association for Laboratory Animal Science (JAALAS), in its May issue (vol. 52, no. 3)**. It will be available for the congress delegates (please, see the USB stick), and also for the AALAS members through the journal's webpage.



The works presented in the **12<sup>th</sup> FELASA SECAL Congress** will be eligible to be selected for publication in **LabAnimal** as papers, previous overcoming a peer-review process. Accepted papers will be published in ordinary numbers of the journal, as well as in a later supplement devoted to the 12<sup>th</sup> FELASA SECAL Congress.

# Lab**Animal**