

Communication in Animal Research

June 13–16, 2022

France, Marseille Chanot

# **Final Programme**



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AND SUSTAINABILITY**

**Alpha**



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UNVEILING ON JUNE 13, 12.45 PM | BOOTH 58B**

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**ivt**

# Table of content

<b>Committees</b>	<b>4</b>
<b>Legend to the Programme</b>	<b>6</b>
<b>Programme Overview</b>	<b>7</b>
Sunday, 12 June, 2022	7
Monday, June 13, 2022	8
Tuesday, June 14, 2022	9
Wednesday, 15 June, 2022	10
Thursday, June 16, 2022	11
<b>Scientific Programme</b>	<b>13</b>
Sunday, June 12, 2022	13
Monday, June 13, 2022	15
Tuesday, June 14, 2022	28
Wednesday, June 15, 2022	42
Thursday, June 16, 2022	57
<b>ePoster Sessions</b>	<b>65</b>

# Committees

## Organising Committee

### Chair:

Samuel Vidal

### Members:

Klas Abelson  
 Elodie Bouchoux  
 Heinz Brandstetter  
 Marie-Laure Cortes-Dubly  
 Thierry Decelle  
 Jean-Philippe Mocho  
 Belén Pintado  
 Sabrina Ravel  
 Ana-Isabel Santos

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### Chair:

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### Co-Chairs:

Aurora Brønstad  
 Patrick Hardy  
 Anna Olsson

### Members:

Ken Applebee  
 Delphine Bouard  
 Livia D'Angelo  
 Virginie Dangles-Marie  
 Delphine Denais-Lalieve  
 Kevin Dhondt  
 Martina Dorsch  
 Nuno Franco  
 Javier Guillén  
 Marcel Gyger  
 Yann Herault  
 Jan Honetschläger  
 Boris Jerchow  
 Angela Kerton  
 Nikolaos Kostomitsopoulos  
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 Karen Mulkijanyan  
 Amir Rosner  
 Bogdan Sevastre  
 Ranko Stojković  
 Peternella (Nelleke) Verhave  
 Osman Yilmaz

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**NXG**

**NRG**

**BRGS mouse**  
A2/DR2 - TSLP - UPA

**B6R2G2 Sirpa**

**WIC Nude**



## Severe immune deficiency Complete characterization

### Humanized mouse

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#### Contact:

contact@janvier-labs.com  
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# Legend to the Programme

Each session and presentation have a code to indicate which stream the session belongs to and on which day it is taking place.

## Session Codes

### 1<sup>st</sup> Letter

Codes start with either the letter K, S, W or P:

- K stands for Keynote
- S stands for session
- W stands for Workshop and
- P stands for poster session

### 1<sup>st</sup> Digit

The digit stands for the day:

1. Sunday
2. Monday
3. Tuesday
4. Wednesday
5. Thursday

### 2<sup>nd</sup> Letter and Colors

The second letter corresponds to the stream initial A, B, C, D, E, F or G

A – Communication with and between Animals

B – Communication and Culture of Care

C – Education and Training: Communication towards the Future

D – Communicating between Peers, Authorities, and the Public

E – The Parallel Route

F – My 3Rs in 180 seconds

G – Tech Day

K – Keynote Lecture

Commercial Workshop

### 2<sup>nd</sup> Digit

The second digit identifies the session.

### Presentation Codes

The presentation consists of the session code followed by a dot and a digit. This digit defines the chronological order of presentations within each session.



Sunday, 12 June, 2022

7

	Samena
10.00	
15	
30	
45	
11.00	
15	
30	
45	
12.00	W1A1 Severity Classification and Reporting under Directive 2010/63/EU – A Train the Trainer Workshop
15	
30	
45	
13.00	
15	
30	Lunch Break
45	
14.00	
15	
30	
45	
15.00	W1A2 Classification and Reporting of Severity of Procedures: Introductory Session Using 'Basic' Models
15	
30	
45	
16.00	Coffee Break
15	
30	
45	
17.00	W1A2 Classification and Reporting of Severity of Procedures: Introductory Session Using 'Basic' Models
15	
30	
45	
18.00	







	Plenary Hall	Les Goudes 1	Les Goudes 2	Callelongue	Morgiou	Sormiou	Samena	Marseilleveyre	ePoster Area	
08.00										08.00
15										15
30										30
45										45
09.00	<b>S3D1</b> Project Evaluation: How to Assess the Performance of...	<b>S3D2</b> Animal-Free Innovations, towards 2025	<b>S3D3</b> Research Quality - Open Science	<b>S3B1</b> A Good Culture of Care - a Win-Win to Everyone Involved	<b>W3A1</b> Digitalization in Laboratory Animal Research: Welfare...	<b>W3A2</b> A Taster of Complex Aquatic Models in the Classification...				09.00
15										15
30										30
45										45
10.00	Coffee Break @ Exhibition Area								<b>PE3</b> ePosters	10.00
15										15
30										30
45										45
11.00	<b>S3B2</b> National Networks of Animal Welfare Bodies - Sharing...	<b>S3B3</b> Humane Killing of Laboratory Fish (FELASA Working Group)	<b>S3B4</b> Research Quality - the 3Rs	<b>S3C1</b> Use of Survey Data to Forecast Future Trends in...			<b>W3C2</b> The Art of Rodent Anesthesia 101 - Made Easy			11.00
15										15
30										30
45										45
12.00	<b>K31</b> More than 3Rs - The Principles of Humane...									12.00
15										15
30										30
45										45
13.00	Lunch Break @ Exhibition Area				<b>Commercial Workshop JANVIER LABS</b>	<b>Commercial Workshop UNO Life Science</b>	Lunch Break @ Exhibition Area	<b>Commercial Workshop Techniplast SpA</b>	Lunch Break @ Exhibition Area	13.00
15										15
30										30
45										45
14.00										14.00
15										15
30										30
45										45
15.00	<b>S3F1</b> My 3Rs in 180 Seconds	<b>S3D4</b> The Role of Non-Tech- nical Summaries in Effective...	<b>S3C3</b> Scientific Communication: Who Is that Mouse...	<b>S3B5</b> Rehoming Considerations and Strategies. Session I	<b>S3D5</b> Preregistration of Animal Study Protocols - Increase Value...	<b>S3E1</b> Anaesthesia & Analgesia: Great and Small, New and Refined				15.00
15										15
30										30
45										45
16.00	Coffee Break @ Exhibition Area									16.00
15										15
30										30
45										45
17.00	<b>S3E2</b> Advances and Challenges in Gnatobiology, a Review...	<b>S3A3</b> Severity Assessment	<b>S3D6</b> Research Quality - Experimental Design	<b>S3B6</b> Rehoming Considerations and Strategies. Session II	<b>S3D7</b> Interdisciplinary Dialogues around Animal Research...					17.00
15										15
30										30
45										45
18.00										18.00

	Plenary Hall	Auditorium	Les Goudes 1	Les Goudes 2	Callelongue	Morgiou	Sormiou	Riou	Samena	Marseille-veyre	ePoster Area	
07.00	FELASA Charity Run											07.00
15												15
30												30
45												45
08.00	S4D1 Moving Towards Openness on Animal Research: How National...	S4G1 Culture of Care in Practice	S4D2 Aquatics: Welfare and Pain Management	S4C1 Innovative Approaches to Education and Training in LAS	S4B1 The Designated Veterinarian: Same Job, Different Views							08.00
15												15
30												30
45												45
09.00												09.00
15												15
30												30
45												45
10.00	Coffee Break @ Exhibition Area										PE4 ePosters	10.00
15												15
30												30
45												45
11.00	S4B2 Working Together to End 'Severe' Suffering	S4G2 Reducing Rodent Aggression and Understanding what Mice...	S4A1 Animal Behaviour	S4C2 Mutual Acceptance of Education and Training...	S4B3 FELASA Today and Tomorrow - How Can You Contribute?	W4C3 Come Breed with us! The Interactive Colony ...			W4B4 Care-Full Stories? Introducing a Training Resource...			11.00
15												15
30												30
45												45
12.00	K41 FELASA Award - Challenging the Norm fo...											12.00
15												15
30												30
45												45
13.00	Lunch Break @ Exhibition Area					Commercial Workshop Charles River	Lunch Break @ Exhibition Area			Commercial Workshop Allentown	Lunch Break @ Exhibition Area	13.00
15												15
30												30
45												45
14.00												14.00
15												15
30												30
45												45
15.00	S4A2 Emerging Technologies for Animal Welfare Assessment	S4G3 Come Breed with us!	S4B5 Culture of Care - Learning from Each Other	S4D3 Comms Strategies and Means	S4C4 What Can You Gain from a FELASA Accredited Laboratory...							15.00
15												15
30												30
45												45
16.00	Coffee Break @ Exhibition Area											16.00
15												15
30												30
45												45
17.00	S4A3 Non-Verbal Communication as Tools to Assess Animal Welfare...	S4G4 Talk, Talk and Talk Some More	S4B6 Culture of Care - a Collaborative Effort	S4C5 Better Education for Better Science	S4A4 Non-Hu- man Primates: Husbandry, Management and Welfare	W4C6 Modern Education and Training Tools - Hands On Workshop...			W4B7 Technicians' Care & Compassion Toolkit!			17.00
15												15
30												30
45												45
18.00												18.00
from	Gala Dinner											from
20:00												20:00

	Plenary Hall	Les Goudes 1	Les Goudes 2	Callelongue	Morgiou	Sormiou	Riou	ePoster Area	
09.00									09.00
15									15
30	<b>S5D1</b> The Challenges and Opportunities to Improve Public Understanding...	<b>S5A1</b> Home Cage Monitoring	<b>S5C1</b> Laboratory Animal Surgery - Can We Do Better?	<b>S5A2</b> Health Monitoring With and Without Sentinels	<b>W5C2</b> Improving Research Reporting and Scientific Communication	<b>W5C2</b> Inbred, Outbred and Well-Bred	<b>W5B1</b> How to Understand and Assess Culture of Care within...		30
45									45
10.00									10.00
15									15
30									30
45									45
11.00	Coffee Break @ Exhibition Area							<b>PE5</b> ePosters	11.00
15									15
30									30
45									45
12.00	<b>S5C2</b> Three Rs Education and Training Outreach	<b>S5D3</b> Interactive Session: New EU Guidance on Genetically Altered Animals		<b>S5E1</b> Diagnostic and Testing	<b>W5D4</b> Public (& Friends and Family) Engagement with Animal Research	<b>W5B2</b> Communicate Better	<b>W5D5</b> How to Promote Public Awareness about Animal Research...		12.00
15									15
30									30
45									45
13.00	Closing and Award Ceremony								13.00



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can help fill the gaps in your programme. Whether you are looking for permanent or temporary staff, we can quickly provide qualified personnel including background checks. Training and further education is available via our classroom and eLearning solutions.

# Sunday, June 12, 2022

## Samena

11:15 – 12:45 **W1A1** **Severity Classification and Reporting under Directive 2010/63/EU – A Train the Trainer Workshop**

*Chair: Dolores Bonaparte (Portugal)*

### Speakers

David Anderson (United Kingdom)  
Dolores Bonaparte (Portugal)  
Ana Criado (Italy)  
Livia D'Angelo (Italy)  
Anne-Dominique Degryse (France)  
Delphine Denais-Lalieve (France)

## Samena

14:15 – 15:45 **W1A2** **Classification and Reporting of Severity of Procedures: Introductory Session Using 'Basic' Models**

*Chair: Ana Criado (Italy)*

### Speakers

David Anderson (United Kingdom)  
Dolores Bonaparte (Portugal)  
Ana Criado (Italy)  
Livia D'Angelo (Italy)  
Anne-Dominique Degryse (France)  
Delphine Denais-Lalieve (France)

## Samena

16:30 – 18:00 **W1A2** **Classification and Reporting of Severity of Procedures: Introductory Session Using 'Basic' Models**

*Chair: Anne-Dominique Degryse (France)*

### Speakers

David Anderson (United Kingdom)  
Dolores Bonaparte (Portugal)  
Ana Criado (Italy)  
Livia D'Angelo (Italy)  
Anne-Dominique Degryse (France)  
Delphine Denais-Lalieve (France)



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# Monday, June 13, 2022

## Plenary Hall (Amphi)

### 10:00 – 11:30 S2D1 **How to Improve Institutional Communication on Animal Research**

*Chair: Kirk Leech (United Kingdom)*

*Co-Chair: Thierry Decelle (France)*

#### S2D1.1 **How to Improve Institutional Communications on Animal Research**

Kirk Leech (United Kingdom)

## Les Goudes 1

### 10:00 – 11:30 S2A1 **Specifics of Facilities Matter**

*Chair: Boris Jerchow (Switzerland)*

*Co-Chair: Jussi Helppi (Germany)*

#### 10:00 – 10:05 **Introduction**

Boris Jerchow (Switzerland)

#### 10:05 – 10:22 S2A1.1 **Full Cost Accounting Not Only Improves Costs, but also Animal Welfare and Job Satisfaction**

Jussi Helppi (Germany)

#### 10:22 – 10:39 S2A1.2 **Not All Individually Ventilated Caging Systems are Created Equal**

Scott Perkins (United States)

#### 10:38 – 10:54 S2A1.3 **Communication Pipeline for *In Vivo* Imaging Services**

Vasileios Ntakis (Greece)

#### 10:54 – 11:09 S2A1.4 **Considerations When Designing and Operating a New SPF (Poultry) Facility**

Ryan Waters (United Kingdom)

#### 11:09 – 11:26 S2A1.5 **Animal Facility 2.0 – Integrating New Technologies in *In Vivo* Research**

Laura Schroeder (Switzerland)



## Les Goudes 2

10:00 – 11:30	<b>S2D2</b>	<b>3Rs – Travelling the Globe and Pandemic Impacts</b>
		<i>Chair: Jan-Bas Prins (United Kingdom)</i> <i>Co-Chair: Adrian Smith (Norway)</i>
10:00 – 10:15	<b>S2D2.1</b>	<b>Norecopa: Working for Global Communication between All Stakeholders</b> Adrian Smith (Norway)
10:15 – 10:30	<b>S2D2.2</b>	<b>Collaborating to Advance the 3Rs in North America &amp; Beyond</b> Sally Thompson-Iritani (United States)
10:30 – 10:45	<b>S2D2.3</b>	<b>Advancing 3Rs: The National Research Programme 79 of the Swiss National Science Foundation</b> Herwig Grimm (Austria)
10:45 – 11:00	<b>S2D2.4</b>	<b>3R Reporting in Preclinical Animal Studies in 2009 and 2018 – a Nationwide Study</b> Kirstine Praestegaard (Denmark)
11:00 – 11:15	<b>S2D2.5</b>	<b>COVID-19: Laboratory Animal Use and Non-Animal Methods in the Dynamics of a Pandemic</b> Leane Van Wereeld (Netherlands)
11:15 – 11:30	<b>S2D2.6</b>	<b>Speed Up and Values Up? Changes in Animal Studies Use during COVID-19 Vaccine Approval</b> Merel Ritskes-Hoitinga (Netherlands)

## Callelongue

10:00 – 11:30	<b>S2A2</b>	<b>Animal Handling</b>
		<i>Chair: Ken Applebee (United Kingdom)</i> <i>Co-Chair: Carola Fischer-Tenhagen (Germany)</i>
10:00 – 10:20	<b>S2A2.1</b>	<b>Tunnel- Versus Tail-Handling in a Mouse Breeding Facility: Time costs and Behaviors in Different Strains</b> Kristina Ullmann (Germany)
10:20 – 10:40	<b>S2A2.2</b>	<b>Rabbit Human Habituation Program during Breeding Reduced Significantly Stress Related Signs during Acclimatization Period</b> Kévin P. Dhondt (France)
10:40 – 10:55	<b>S2A2.3</b>	<b>Positive Reinforcement Training as a Refinement Tool in Feline Experimental Studies</b> Andrea Monika Spiri (Switzerland)
10:55 – 11:10	<b>S2A2.4</b>	<b>Improving Human-Animal Interactions for Research Pigs: Habituation to Sling Restraint for Blood Collection</b> Carly O'Malley (United States)
11:10 – 11:25	<b>S2A2.5</b>	<b>Train the Trainer: What Is Needed to Train Goats for Experiments?</b> Carola Fischer-Tenhagen (Germany)

## Morgiou

10:00 – 11:30	<b>S2C1</b>	<b>Evolving Education to Meet Current and Future Needs</b> <i>Chair: Linda Horan (United Kingdom)</i> <i>Discussion facilitator: Steven Cubitt (United Kingdom)</i>
10:00 – 10:05		<b>Introduction to Sessions. Providing Education for Those that Care</b> <i>Linda Horan (United Kingdom)</i>
10:05 – 10:25	<b>S2C1.1</b>	<b>Session 1. Animal Technician Education</b> <i>Steven Cubitt (United Kingdom)</i>
10:25 – 11:30	<b>S2C1.2</b>	<b>Session 2. Evolving Animal Technician Education</b> <i>Tina O'Mahony (United Kingdom)</i> <i>Theresa Langford (United Kingdom)</i>

## Sormiou

10:00 – 11:30	<b>W2B1</b>	<b>How to Facilitate a Good Culture of Care in Laboratory Animal Establishments</b> <i>Chair: Thomas Bertelsen (Denmark)</i>
10:00 – 10:20	<b>W2B1.1</b>	<b>Understanding and Valuing the Roles of Different People within an Establishment: Workshop I, Part1</b> <i>Thomas Bertelsen (Denmark)</i>
10:20 – 10:40	<b>W2B1.2</b>	<b>Communicating Effectively with Others in Different Roles</b> <i>Penny Hawkins (United Kingdom)</i>
10:40 – 11:00	<b>W2B1.3</b>	<b>Considering Emotional Loading in People with Different Roles</b> <i>Jenny Parks (United Kingdom)</i>
11:00 – 11:20	<b>W2B1.4</b>	<b>Raising Concerns – Culture of Care Workshop</b> <i>Kathy Ryder (United Kingdom)</i>
11:20 – 11:30		<b>Panel Discussion: Practical Suggestions for Activities and Processes to Enable Better Communication within an Establishment</b>

## Riou

10:00 – 11:30	<b>W2A3</b>	<b>A Taster of Complex Farm Animal Models in the Classification and Reporting of Severity Procedures</b> <i>Chairs: Anne-Dominique Degryse (France) and David Anderson (United Kingdom)</i>
10:00 – 11:30		<b>Speakers</b> <i>David Anderson (United Kingdom)</i> <i>Dolores Bonaparte (Portugal)</i> <i>Ana Criado (Italy)</i> <i>Livia D'Angelo (Italy)</i> <i>Anne-Dominique Degryse (France)</i> <i>Delphine Denais-Lalievie (France)</i>

## Samena

**10:00 – 11:30 W2D3 Media Training – Practical Tips to Help Share Your Research with the Public***Chair: Becky Jones (United Kingdom)***10:00 – 10:15 W2D3.1 Communicating Your Animal Research with the Media - the Importance of Transparency***Becky Jones (United Kingdom)***10:15 – 10:30 W2D3.2 How Should We Discuss the Use of Animals in Basic Research?***Andreas Lengeling (Germany)***10:30 – 10:45 W2D3.3 Engaging with Patient Groups***Anastasia Tsingotjidou (Greece)***10:45 – 11:30 Interactive Group Work**

## Plenary Hall (Amphi)

**11:30 – 11:45 Opening Ceremony***Samuel Vidal. Congress Chair**Belen Pintado. FELASA President**Sebastien Paturance. AFSTAL President**Jan-Bas Prins. Scientific Committee Chair*

## Plenary Hall (Amphi)

**11:45 – 12:45 K21 KEYNOTE LECTURE  
How Effective Communication Can Drive Improvements in Aquatic Animal Welfare***Chair: Samuel Vidal (France)**Lynne Sneddon (Sweden)*

## Exhibition Area

**12:45 – 14:15 Lunch break | Commercial workshops**

## Morgiou

**13:00 – 14:00 A Sneak Peek into the Interplay between Housing Environment and Microbiota, and Application of Germfree Mice in Preclinical Research and Services***Zhiying Li (United States)* GemPharmatech<sup>™</sup>

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- Knock Out All Project:  
cKO/KO Mice
- Disease Models
- Immunodeficient Mice
- Immune-oncology Models
- Humanized Mice
- Tool mice, including Cre, Dre, Flop, Cas9,  
and reporter mice
- Germ Free Mice

## **Custom Model Generation**

- CRISPR/Cas9
- ES HR
- Transgenic, BAC TG, Super TG

## **Preclinical Efficacy and Phenotyping**

- Drug Efficacy and Safety Testing
- Mice Phenotyping

## **Mouse Breeding, Cryopreservation and Rederivation**

- Cryopreservation
- Assisted Reproduction
- Rapid Expansion and Rederivation
- Customized Breeding

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selection of models.

## Sormiou

13:00 – 14:00

**Assessment and Surveillance of Adverse Phenotypes in Genetically Engineered Models***Chair: Maroun Karam (France)*

Charlotte Thygesen (Denmark)



## Marseilleveyre

13:00 – 14:00

**Multi-Centre Study of Home-Cage Physical Activity of C57BL/6 Mice and their Responses to Microenvironmental Conditions during Consecutive Cycles of Bi-Weekly Housing Change Outs***Chair: John Hasenau (Reno, United States)***Speakers**

Jan-Bas Prins (United Kingdom)

Herve Lerat (France)

## Plenary Hall (Amphi)

14:15 – 15:45

**S2D4****Strategic Communication Is a Key to Change***Chair: Lisa Andersson (Sweden)**Co-Chair: Rafael Frías (Sweden)***Case Discussion**

Lisa Andersson (Sweden)

Leif Carlsson (Sweden)

Karin Gabrielson Morton (Sweden)

Elin Törnqvist (Sweden)

## Les Goudes 1

14:15 – 15:45

**S2E1****3Rs - Reduction at Work***Chair: Bogdan Sevastre (Romania)**Co-Chair: Thierry Decelle (France)*

14:15 – 14:37

**S2E1.1****Anishare: An Open-Source Software to Improve the Use of Surplus Laboratory Animals and Organs**

Antonina Klippert (Germany)

14:37 – 14:59

**S2E1.2****Tele-Embryo: A Service to Promote Reduction and Refinement in Rederivations**

Belen Pintado (Spain)

- 14:59 – 15:21    **S2E1.3**    **Objective of 50% Reduction in 10 Years in a Pharmaceutical Company**  
Thierry Decelle (France)
- 15:21 – 15:43    **S2E1.4**    **Reduction of the Use of Animals for Vaccine Evaluation: Achievements and Perspectives**  
Raffaella Cecchi (Italy)

## Les Goudes 2

- 14:15 – 15:45    **S2A4**    **Enhancing Vivaria Sustainability**  
*Chair: Patrick Sharp (United States)*  
*Co-Chair: Jan Honetschläger (Czech Republic)*
- S2A4.1**    **Planning and Designing the Green Vivarium: Towards More Sustainable Biomedical Research**  
Patrick Sharp (United States)

## Callelongue

- 14:15 – 15:45    **S2D5**    **Discovering Communication Secrets**  
*Chair: Nikos Kostomitsopoulos (Greece)*  
*Co-Chair: Merel Ritskes-Hoitinga (Netherlands)*
- 14:15 – 14:37    **S2D5.1**    **Taking on the Challenge of Openness at a Large US Public University**  
Sally Thompson-Iritani (United States)
- 14:37 – 14:59    **S2D5.2**    **Transparency: Adapted Broadened Communication Leads to Better Acceptance**  
Thomas Hubert (France)
- 14:59 – 15:21    **S2D5.3**    **Lost in Translation? Facilitating Communication between Animal and Medical Research Ethics Committees**  
Merel Ritskes-Hoitinga (Netherlands)
- 15:21 – 15:43    **S2D5.4**    **Juggling Legal Roles: Animal Welfare Oversight and AWB Tasks**  
Paternella S. Verhave (Netherlands)

## Morgiou

14:15 – 15:45	<b>W2D6</b>	<b>Biomedical Research – Breaking the Deadlock by Drawing Innovation from Multidisciplinary Approaches. Part 1</b>
		<i>Chair: Sofia Batista Leite (Italy)</i> <i>Co-Chair: Annamaria Carusi (United Kingdom)</i>
14:15 – 14:30	<b>W2D6.1</b>	<b>The Relevance of Animal Models and Alternatives for Human Risk Assessment for Pharmaceuticals</b> Robert Mader (Switzerland)
14:30 – 14:45	<b>W2D6.2</b>	<b>Advanced Models to Capture Complex Human Physiology</b> Sofia Batista Leite (Italy) Laura Gribaldo (Italy)
14:45 – 15:00	<b>W2D6.3</b>	<b>Computational Modelling as a Practical Example of Bridging between Disciplines</b> Elisa Passini (United Kingdom)
15:00 – 15:15	<b>W2D6.4</b>	<b>Crack it Challenges – Funding Collaborations to Bring Three Rs Benefits</b> Vicky Robinson (United Kingdom)
15:15 – 15:30	<b>W2D6.5</b>	<b>Setting the Scene and Explanation of the Activity to Follow in Workshop 2</b> Annamaria Carusi (United Kingdom)

## Sormiou

14:15 – 15:45	<b>S2A5</b>	<b>Improving Animal Models for More Relevance</b>
		<i>Chair: Yann Herault (France)</i> <i>Co-Chair: Marieke A. Stammes (Netherlands)</i>
14:15 – 14:17		<b>Introduction</b> Yann Herault (France)
14:17 – 14:37	<b>S2A5.1</b>	<b>The Sheep as an Experimental Model for Peripheral Nerve Injury and Regeneration Studies</b> Estefanía Contreras (Spain)
14:37 – 14:57	<b>S2A5.2</b>	<b>Medical Imaging as a Means of Understanding Severe Acute Respiratory Syndrome Coronavirus 2 Infection</b> Marieke A. Stammes (Netherlands)
14:57 – 15:17	<b>S2A5.3</b>	<b>Pre-Immunization with Inactivated Pathogens Recapitulates Adult Human Immune Traits in Laboratory Mice</b> Caroline Falkenberg (Denmark)
15:17 – 15:37	<b>S2A5.4</b>	<b>Is Sweet Consumption under Thirst and Hunger Really a Good Indicator of Depression?</b> Jenny Berrío (Denmark)
15:37 – 15:45		<b>Closing Remarks</b>



## Riou

14:15 – 15:45 **W2C2 CANCELLED Skills for Communication and Learning in the Workplace – Developing Your Practical Skills ... and More**

## Samena

14:15 – 15:45 **W2C3 Communicating Good Experimental Design. Part 1**

*Chair: Derek Fry (United Kingdom)*

**Speakers**

Derek Fry (United Kingdom)

Manuel Berdoy (United Kingdom)

## ePoster Area

15:45 – 16:30 **P2E ePoster Sessions: P2E1, P2E2, P2E3, P2E4, P2E5**

(see pages 65–59)

## Exhibition Area

15:45 – 16:30 **Coffee break**

## Plenary Hall (Amphi)

16:30 – 18:00 **S2D7 Improving Communication at the Establishment Level in Favour of Animal Welfare**

*Chair: Viola Galligioni (Ireland)*

*Co-Chair: Sabrina Ravel (France)*

16:30 – 16:35

**Introduction**

Viola Galligioni (Ireland)

Sabrina Ravel (France)

16:35 – 16:55

**S2D7.1**

**Communication between Establishments and Competent Authorities in Favour of Animal Welfare**

Katerina Marinou (Greece)

16:55 – 17:15

**S2D7.2**

**Expectations for Internal Communications in Animal Care and Welfare Programs**

Helena Paradell (Spain)

17:15 – 17:35

**S2D7.3**

**The Role of Designated Veterinarians as Advocates for Animal Welfare**

Argyro Zacharioudaki (Greece)

17:35 – 17:55

**S2D7.4**

**Growing New Neurons: Opportunities to Thrive in Lab Animal Medicine**

Janet Rodgers (United Kingdom)

17:55 – 18:00

**Conclusions**

## Les Goudes 1

16:30 – 18:00	<b>S2B2</b>	<b>“Green Champion” Initiative – Communicating on the Environmental Impact of LAS</b> <i>Chair: Jean-Philippe Mocho (United Kingdom)</i> <i>Co-Chair: Patrick Hardy (France)</i>
16:30 – 17:00	<b>S2B2.1</b>	<b>The Green Champion Initiative and Leaf</b> Joshua Kerr (United Kingdom)
17:00 – 17:30	<b>S2B2.2</b>	<b>The Environmental Impact of LAS: 3R – Reduce, Reuse, Recycle – What Do You Do?</b> Jean-Philippe Mocho (United Kingdom)
17:30 – 18:00	<b>S2B2.3</b>	<b>Environmental Impact of Biosecurity: Autoclave Vs. Greener Options for Disinfection</b> Patrick Hardy (France) Jean-Philippe Mocho (United Kingdom)

## Les Goudes 2

16:30 – 18:00	<b>S2B3</b>	<b>3Rs – Refinement at Work</b> <i>Chair: Kévin P. Dhondt (France)</i> <i>Co-Chair: Thorsten Buch (Switzerland)</i>
16:30 – 16:50	<b>S2B3.1</b>	<b>Refinement of the Rat Contusion Model of Thoracic Spinal Cord Injury</b> Harikrishnan Vijayakumar Sreelatha (Denmark)
16:50 – 17:10	<b>S2B3.2</b>	<b>Improving Non-Terminal Blood Specimen Quality in Mice</b> Catherine Layssol-Lamour (France)
17:10 – 17:30	<b>S2B3.3</b>	<b>Refinement of Tamoxifen Administration in Mice Via Encouraged Voluntary Consumption of Palatable Formulations.</b> Thorsten Buch (Switzerland)
17:30 – 18:00		<b>Discussion: Measuring 3R Efficiency – Are You Really Impactful?</b>

## Callelongue

16:30 – 18:00	<b>S2D8</b>	<b>Harmonizing Policies and Key Role Players</b> <i>Chair: Nikos Kostomitsopoulos (Greece)</i> <i>Co-Chair: Nicolas Dudoignon (France)</i>
16:30 – 16:50	<b>S2D8.1</b>	<b>Role of the Designated Veterinarian – FELASA-ECLAM-ESLAV Working Group</b> Ngaire Dennison (United Kingdom)

- 16:50 – 17:10 **S2D8.2** **Laboratory Animals Welfare during Transportation: Key Online Resources for End Users and Transport Stakeholders**  
Nicolas Dudoignon (France)
- 17:10 – 17:30 **S2D8.3** **Leading Effective Change in Your Organisation**  
Caroline Back (Sweden)
- 17:30 – 17:50 **S2D8.4** **Leveraging Technology: An Approach for Performing Animal Welfare Due Diligence for Externalized *In Vivo* Work**  
Benn Reeve (United Kingdom)

## Morgiou

### 16:30 – 18:00 **W2D6** **Biomedical Research – Breaking the Deadlock by Drawing Innovation from Multidisciplinary Approaches. Part 2**

*Chair: Sofia Batista Leite (Italy)*

*Co-Chair: Annamaria Carusi (United Kingdom)*

#### Discussion

Annamaria Carusi (United Kingdom)

Sofia Batista Leite (Italy)

Robert Mader (Switzerland)

Elisa Passini (United Kingdom)

Vicky Robinson (United Kingdom)

## Sormiou

### 16:30 – 18:00 **W2C4** **Widening Participation: Education As a Dialogue Between Student and Tutor in a Virtual World**

*Chair: Lucy Whitfield (United Kingdom)*

#### 16:30 – 16:40 **Introduction and Key Concepts**

Dave Lewis (United Kingdom)

#### 16:40 – 17:30 **Learning Activities:**

**Education and Communication in a Virtual Environment**

Ian Garrod (United Kingdom)

**Active Learning – Benefits and Practicalities**

Dave Lewis (United Kingdom)

**Learning through Assessment**

Lucy Whitfield (United Kingdom)

**Engaging Your Audience through Polling**

Angela Kerton (United Kingdom)

#### 17:30 – 17:50 **Plenary Session**

Ismene Dontas (Greece)

## Riou

16:30 – 18:00 **W2D9** **Filming (and Taking Pictures) with Your Smartphone**

*Chair: Bella Williams (United Kingdom)*

### Speakers

Hannah Hobson (United Kingdom)

Richard Scrase (United Kingdom)

## Samena

16:30 – 18:00 **W2C3** **Communicating Good Experimental Design. Part 2**

*Chair: Derek Fry (United Kingdom)*

### Speakers

Derek Fry (United Kingdom)

Thomas Steckler (Belgium)

## Exhibition Area

18:00 – 20:00 **Welcome Reception**

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# Tuesday, June 14, 2022

## Plenary Hall (Amphi)

### 08:00 – 09:30 **S3D1** **Project Evaluation: How to Assess the Performance of Ethical Review Bodies across Europe?**

*Chair: Pierre Mormède (France)*

*Co-Chair: Birgit Ledermann (Switzerland)*

08:00 – 08:10 **Introduction**

Nicolas Guy (France)

08:10 – 08:30 **S3D1.1** **Evaluation of Performance of Different Ethical Review and Oversight Processes**

Javier Guillén (Spain)

08:30 – 08:50 **S3D1.2** **Evaluation Tool to Assess the Strengths and Weaknesses of an Ethical Review System**

Guy De Vroey (Belgium)

08:50 – 09:10 **S3D1.3** **Resources and Competencies of Ethical Review Bodies**

Penny Hawkins (United Kingdom)

09:10 – 09:30 **S3D1.4** **Independence, Impartiality and Transparency of Ethical Review Bodies: State of Play in France**

Pierre Mormède (France)

## Les Goudes 1

### 08:00 – 09:30 **S3D2** **Animal-Free Innovations, towards 2025**

*Chair: Peternella S. Verhave (Netherlands)*

*Co-Chair: Jan-Bas Prins (United Kingdom)*

08:00 – 08:05 **Introduction**

Peternella S. Verhave (Netherlands)

08:05 – 08:20 **S3D2.1** **Predicting Animal to Human Translation: A Pilot Study Using Qualitative Comparative Analysis**

Cathalijn Leenaars (Germany)

08:20 – 08:35 **S3D2.2** **Barriers and Opportunities for Using Human Material in Research**

Bea Zoer (Netherlands)

08:35 – 08:50 **S3D2.3** **Utrecht Round Tables on the Transition Towards Non-Animal Methods**

Monique Janssens (Netherlands)

08:50 – 08:55 **Intermediate Wrap Up**

- 08:55 – 09:10 **S3D2.4** **Beyond Animal Testing Index: Benchmarking Research Institutes on Contributions to Animal-Free Innovation and 3Rs**  
Jan-Bas Prins (United Kingdom)
- 09:10 – 09:25 **S3D2.5** **The Virtual Human Platform as a New Approach to Take on Animal-Free Future Challenges**  
Ronald Vlasblom (Netherlands)
- 09:25 – 09:30 **Overall Wrap Up**  
Paternella S. Verhave (Netherlands)

## Les Goudes 2

### 08:00 – 09:30 **S3D3** **Research Quality - Open Science**

*Chair: I. Anna S. Olsson (Portugal)*

*Co-Chair: Julia Menon (Netherlands)*

#### 08:00 – 08:05 **Introduction**

I. Anna S. Olsson (Portugal)

#### 08:05 – 08:20 **S3D3.1** **Risks of Bias and How to Find Them (in Animal Studies)**

Kimberley E. Wever (Netherlands)

#### 08:20 – 08:35 **S3D3.2** **Systematic Reviews of Animal Studies: Inspiring Communication about Good Research Practices**

Julia Menon (Netherlands)

#### 08:35 – 08:50 **S3D3.4** **“Communities for Open Research Synthesis” – a Community Approach to Strengthen Evidence from Animal Research**

Sarah McCann (Germany)

#### 08:50 – 09:05 **S3D3.5** **Estimating Translational Effectiveness through an Expert Informed Metric in a Preclinical Research Unit**

Natascha Drude (Germany)

#### 09:05 – 09:20 **S3D3.6** **Two-Steps License Requests to Increase Transparency and Reduce False Positive Reports: Exploratory Vs Confirmatory Studies**

Fulvio Magara (Switzerland)

#### 09:20 – 09:30 **Discussion**

## Callelongue

### 08:00 – 09:30 **S3B1** **A Good Culture of Care - a Win-Win to Everyone Involved**

*Chair: Susanna Louhimies (Belgium)*

*Co-Chair: Belen Pintado (Spain)*

#### 08:00 – 08:18 **S3B1.1** **Culture of Care – Setting the Scene**

Susanna Louhimies (Belgium)



- 08:18 – 08:36 **S3B1.2** **Doing the Right Thing: Competence and a Culture of Care**  
Lucy Whitfield (United Kingdom)
- 08:36 – 08:54 **S3B1.3** **The Difference Two Hands Can Make**  
Ngaire Dennison (United Kingdom)
- 08:54 – 09:12 **S3B1.4** **Walk the Extra Mile for Rehoming**  
Pascalie Van Loo (Netherlands)
- 09:12 – 09:30 **S3B1.5** **A Performance Indicator to Set Corporate Program: from Local Actions to Global Commitments**  
Thierry Decelle (France)

### Morgiou

- 08:00 – 09:30 **W3A1** **Digitalization in Laboratory Animal Research: Welfare, Science and Operational Aspects**  
*Chair: Stefano Gaburro (Italy)*
- 08:00 – 08:30 **W3A1.1** **Digital Home-Cage: Current Opportunities and Challenges**  
Fabrizio Scorrano (Switzerland)
- 08:30 – 09:00 **W3A1.2** **Improved Animal Welfare and Scientific Validity in Home Cage-Based Automated Phenotyping of Mice**  
Oliver Stiedl (Netherlands)
- 09:00 – 09:30 **W3A1.3** **Improving Biomedical Research by Automated Monitoring of Animal Behaviour in the Home-Cage**  
Vootele Voikar (Finland)

### Sormiou

- 08:00 – 09:30 **W3A2** **A Taster of Complex Aquatic Models in the Classification and Reporting of Severity of Procedures**  
*Chair: Anne-Dominique Degryse (France)*
- Speakers**  
David Anderson (United Kingdom)  
Dolores Bonaparte (Portugal)  
Ana Criado (Italy)  
Livia D'Angelo (Italy)  
Anne-Dominique Degryse (France)  
Delphine Denais-Lalievie (France)

### ePoster Area

- 09:30 – 10:15 **P3E** **ePoster Sessions: P3E1, P3E2, P3E3, P3E4, P3E5**  
(see pages 70–74)

## Exhibition Area

09:30 – 10:15

Coffee break

## Plenary Hall (Amphi)

**10:15 – 11:45 S3B2 National Networks of Animal Welfare Bodies – Sharing Ideas and Good Practices**
*Chair: Penny Hawkins (United Kingdom)**Co-Chair: Delphine Denais-Lalievie (France)*

- 10:15 – 10:30 S3B2.1 **Expectations of the European Commission Towards the Animal Welfare Body**  
Susanna Louhimies (Belgium)
- 10:30 – 10:45 S3B2.2 **The National Network of Animal Welfare Bodies in Denmark**  
Thomas Bertelsen (Denmark)
- 10:45 – 11:00 S3B2.3 **The National Network of Animal Welfare Bodies in France**  
Delphine Denais-Lalievie (France)
- 11:00 – 11:15 S3B2.4 **Example of an AWB Network – the Belgian Animal Welfare Body Platform**  
Piet Dierckx (Belgium)
- 11:15 – 11:30 S3B2.5 **The National Network of Animal Welfare Bodies in the UK**  
Sally Robinson (United Kingdom)
- 11:30 – 11:45 **General Discussion**

## Les Goudes 1

**10:15 – 11:45 S3B3 Humane Killing of Laboratory Fish (FELASA Working Group)**
*Chair: Jean-Philippe Mocho (United Kingdom)**Co-Chair: Kristine von Krogh (Norway)*

- 10:15 – 10:30 S3B3.1 **Communication and Humane Killing of Fish**  
Kristine von Krogh (Norway)
- 10:30 – 10:45 S3B3.2 **Communicating on Electrical Stunning**  
Robin McKimm (United Kingdom)
- 10:45 – 11:00 S3B3.3 **Hypothermal Shock – When Official Communication Does not Help**  
Kristine von Krogh (Norway)
- 11:00 – 11:15 S3B3.4 **Justifying the Choice of Anaesthetics to Overdose Zebrafish**  
Jean-Philippe Mocho (United Kingdom)
- 11:15 – 11:30 S3B3.5 **FELASA Working Group Recommendations on Methods for Humane Killing of Laboratory Fish. Highlights and Summary**  
Jean-Philippe Mocho (United Kingdom)
- 11:30 – 11:45 **Discussion**

## Les Goudes 2

10:15 – 11:45	<b>S3B4</b>	<b>Research Quality – the 3Rs</b>	<p><i>Chair: Aurora Brønstad (Norway)</i>  <i>Co-Chair: Patrick Hardy (France)</i></p> <p><b>Transnetyx</b>  <small>turning research's failing time</small></p>
10:15 – 10:33	<b>S3B4.1</b>	<b>The Importance of Genetic Background in Mouse Models</b>	Fernando Benavides (United States)
10:33 – 10:51	<b>S3B4.2</b>	<b>The Importance of Microbiome Analysis in Animal Characterization</b>	Samira Lawton (United States)
10:51 – 11:09	<b>S3B4.3</b>	<b>Improving Reproducibility in Mouse Models: The Importance of Multi-Level Communication for Reducing Genotyping Inconsistency</b>	Sylvie Jacquot (France)
11:09 – 11:27	<b>S3B4.4</b>	<b>Quality Management, a Way to Improve the 3Rs in the Animal Facilities</b>	Roberto Plasenzotti (Austria)
11:27 – 11:45	<b>S3B4.5</b>	<b>Exchange of Experience on Critical Incidents With the Help of CIRS-LAS Improves Animal Welfare</b>	Sabine Bischoff (Germany)

## Callelongue

10:15 – 11:45	<b>S3C1</b>	<b>Use of Survey Data to Forecast Future Trends in Laboratory Animal Science</b>	<p><i>Chair: Ann Turner (United States)</i>  <i>Co-Chair: Klas Abelson (Denmark)</i></p>
10:15 – 10:30	<b>S3C1.1</b>	<b>Overview of the Association and Its Research Agenda</b>	Ann Turner (United States)
10:30 – 10:50	<b>S3C1.2</b>	<b>Diversity and Inclusion</b>	Ann Turner (United States)
10:50 – 11:05	<b>S3C1.3</b>	<b>Compensation Survey</b>	Sally Westlake (United States)
11:05 – 11:30	<b>S3C1.4</b>	<b>Job Analysis Survey</b>	Sally Westlake (United States)
11:30 – 11:45	<b>S3C1.5</b>	<b>Additional Data</b>	Ann Turner (United States)



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## Samena

### 10:15 – 11:45 **W3C2** **The Art of Rodent Anesthesia 101 – Made Easy**

*Chair: Cholawat Pacharinsak (United States)*

#### **Speakers**

Cholawat Pacharinsak (United States)

Patrick Sharp (United States)

## Plenary Hall (Amphi)

### 11:45 – 12:45 **K31** **KEYNOTE LECTURE** **More than 3Rs – The Principles of Humane Experimental Technique**

*Chair: Jan-Bas Prins (United Kingdom)*

Hanno Würbel (Switzerland)

## Exhibition Area

### 12:45 – 14:15 **Lunch break | Commercial workshops**

## Morgiou

### 13:00 – 14:00 **Creation and Characterization of (Humanized) Rodent Models for Immuno-Oncology**

*Alexander Aslanidis (Germany)*



## Sormiou

### 13:00 – 14:00 **General Considerations in Bloodsampling and Infusion Studies**

*Chair: J. Adriaan Schmal (Netherlands)*

#### **Speakers:**

Edwin Spoelstra (Netherlands)

Shelly Carballo (United States)

### 13:00 – 14:00 **Next-level Housing and Infrastructure Plans: Improving Animal Model Translation, Welfare, and Operational Efficiencies through Automation of Facilities and Housing**

*Chair: John Hasenau (United States)*



#### **Speakers**

John Hasenau (United States)

Jeffrey Zinda (United States)

## Plenary Hall (Amphi)

14:15 – 15:45 **S3F1 My 3Rs in 180 Seconds***Chair: Athanassia Sotiropoulos (France)**Co-Chair: Samuel Vidal (France)*

14:15 – 14:20

**Introduction**

Athanassia Sotiropoulos (France)

14:20 – 14:25

**S3F1.01****Development of an Anatomical and Physiological Non-Human Primate Respiratory Model to Study Aerosol Deposition**  
Justina Creppy (France)

14:25 – 14:30

**S3F1.02****Enhancing Animal Welfare by Olfactory Enrichment: The Impact of Soiled Bedding on Abnormal Repetitive Behaviors**  
Katharina Tillmann (Austria)

14:30 – 14:35

**S3F1.03****Refining the Weaning Age of Rhesus Macaques Destined for Use in Neuroscience Research**  
David Massey (United Kingdom)

14:35 – 14:40

**S3F1.04****Optimization of Skin Sensitization Testing Strategy In Vitro for Medical Device Extracts**  
Lada Svobodova (Czech Republic)

14:40 – 14:45

**S3F1.05****Long-Term Analgesia Following a Single Application of a Fentanyl Transdermal Solution in Pigs**  
Rebecca Goutchtat (France)

14:45 – 14:50

**S3F1.06****3R Refined Intrathecal Administration in the Rat**  
Esther Kooijman (Netherlands)

14:50 – 14:55

**S3F1.07****The Human Gut Organoid, a Promising Model to Study Enterovirus Infection and Disease Pathogenesis**  
Ikrame Aknouch (Netherlands)

14:55 – 15:00

**S3F1.08****3D Printed Rodent Skin-Skull-Brain Model: A Novel Animal-Free Approach for Neurosurgical Training**  
Marie Bainier (Switzerland)

15:00 – 15:05

**S3F1.09****Pilltech – a Refined, Metabolic Inert and Animal Welfare Friendly Tool for Oral Drug Dosing**  
Inês Preguiça (Portugal)

15:05 – 15:10

**S3F1.10****3R Blackboard: A Platform for Animal and Organ Sharing**  
Magdalena Anna Czubala (United Kingdom)

15:10 – 15:15

**S3F1.11****Giggling Together – Stress Reduction of Apprentices and Rats by Tickling**  
Christine Bauer (Switzerland)

15:15 – 15:20

**S3F1.12****3Rs Importance in Practical Teaching: Study of Cardio-respiratory Physiology with a Non-Invasive Telemetric Jacket**  
Agathe Cambier (France)

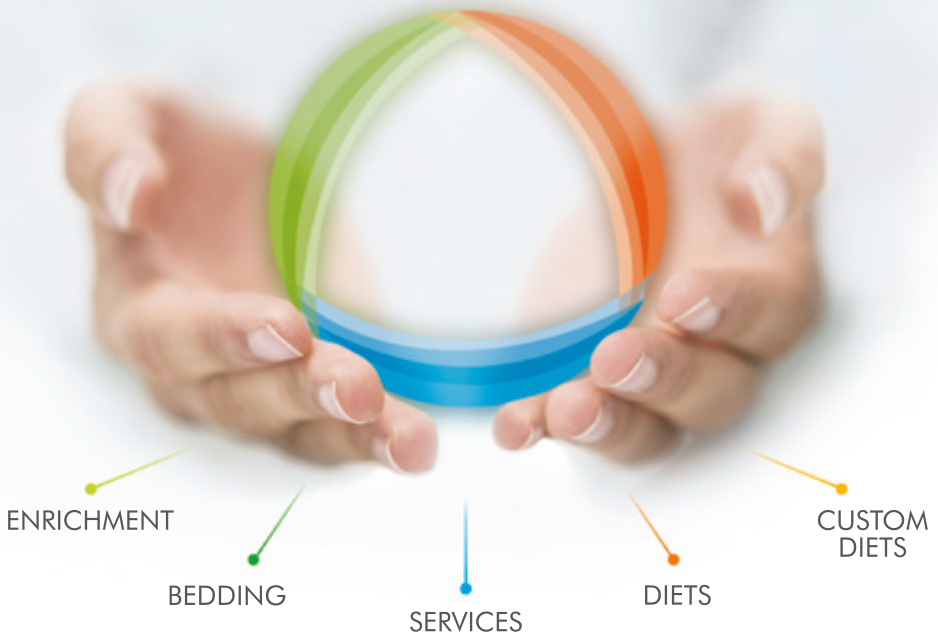
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ENRICHMENT



15:20 – 15:25	S3F1.13	<b>3D-Printed Rodent Models – a Practical Implementation of the 3Rs in Lab Animal Training</b> Felix Gantenbein (Switzerland)
15:25 – 15:30	S3F1.14	<b>The Role of Noninvasive Multi-Modality Imaging to Imply 3R Principle in Cancer Research</b> Ying Zhao (Sweden)
15:30 – 15:35	S3F1.15	<b>Housing Effects on Cortisol and Body Fat Levels in Captive Female Rhesus Macaques</b> Dian Zijlmans (Netherlands)

### Les Goudes 1

14:15 – 15:45	<b>S3D4</b>	<b>The Role of Non-Technical Summaries in Effective Communication on Animal Research to the Public</b> <i>Chair: Bob Tolliday (United Kingdom)</i> <i>Co-Chair: Peterrella S. Verhave (Netherlands)</i>
14:15 – 14:30	S3D4.1	<b>The Role of Non-Technical Summaries in Effective Communication on Animal Research to the Public</b> Javier Guillén (Spain)
14:30 – 14:45	S3D4.2	<b>Benefits of and Expectations for Improving Transparency through Non-Technical Project Summaries</b> Susanna Louhimies (Belgium)
14:45 – 15:00	S3D4.3	<b>NGO Perspective: Do Summaries Improve Transparency of Where, Why and How Animals are Used?</b> Katy Taylor (United Kingdom)
15:00 – 15:15	S3D4.4	<b>Talking about Harms</b> Barney Reed (United Kingdom)
15:15 – 15:30	S3D4.5	<b>Addressing the 3Rs in Non-Technical Project Summaries</b> Thomas Bertelsen (Denmark)
15:30 – 15:45		<b>Discussion</b>

### Les Goudes 2

14:15 – 15:45	<b>S3C3</b>	<b>Scientific Communication: Who Is that Mouse and Does It Matter?</b> <i>Chair: Cory Brayton (United States)</i> <i>Co-Chair: Yann Herault (France)</i>
14:15 – 15:00	S3C3.1	<b>Immune Sufficient Mice: Famous Mice, Names and Variants</b> Cory Brayton (United States)
15:00 – 15:45	S3C3.2	<b>Immune Deficient Mice: Famous Mice, Names and Variants</b> Cory Brayton (United States)

## Callelongue

14:15 – 15:45	<b>S3B5</b>	<b>Rehoming Considerations and Strategies. Session I</b>
		<i>Chair: Monique Janssens (Netherlands)</i> <i>Co-Chair: Emilie Ecuer (France)</i>
14:15 – 14:20	<b>S3B5.1</b>	<b>Rehoming Lab Animals: Doing the Right Thing</b> Monique Janssens (Netherlands)
14:20 – 14:45	<b>S3B5.2</b>	<b>General Considerations for the Rehoming of Animals Used for Scientific and Educational Purposes</b> Christel Palmyre Henri Moons (Belgium)
14:45 – 15:05	<b>S3B5.3</b>	<b>Rehoming Lab Animals – Strategies and Partnerships</b> Pascalie Van Loo (Netherlands)
15:05 – 15:25	<b>S3B5.4</b>	<b>Rehoming of Cats–Important Considerations to Make the Story a Success</b> Andrea Monika Spiri (Switzerland)
15:25 – 15:45	<b>S3B5.5</b>	<b>Considerations for Rehoming of Mice, Rats and Rabbits</b> Jackie Boxall (United Kingdom)

## Morgiou

14:15 – 15:45	<b>S3D5</b>	<b>Preregistration of Animal Study Protocols – Increase Value through Transparency</b>
		<i>Chair: Steven Chamuleau (Netherlands)</i> <i>Co-Chair: Elodie Bouchoux (France)</i>
14:15 – 14:20		<b>Introduction</b> Steven Chamuleau (Netherlands)
14:20 – 14:40	<b>S3D5.1</b>	<b>Where Have All the Mice Gone? – a Publication Rate Study</b> Kimberley Wever (Netherlands)
14:40 – 15:00	<b>S3D5.2</b>	<b>Preclinicaltrials.EU: The Benefits of Preregistration and the Influence of Authorities and Peers</b> Julia Menon (Netherlands)
15:00 – 15:20	<b>S3D5.3</b>	<b>Researchers' Attitudes Toward Preregistration</b> Mira van der Naald (Netherlands)
15:20 – 15:45		<b>Discussion</b>

## Sormiou

14:15 – 15:45	<b>S3E1</b>	<b>Anaesthesia &amp; Analgesia: Great and Small, New and Refined</b>
		<i>Chair: Delphine Bouard (France)</i> <i>Co-Chair: Kévin P. Dhondt (France)</i>

14:15 – 14:33	<b>S3E1.1</b>	<b>Can Thermal Support during Anesthesia Induction Minimize Body Temperature Loss over the Whole Procedure?</b> Brianna N. Gaskill (United States)
14:33 – 14:51	<b>S3E1.2</b>	<b>Anaesthesia Induced Memory Impairment: The Silent Variable</b> Jorge M. Ferreira (Portugal)
14:51 – 15:09	<b>S3E1.3</b>	<b>Effect of Isoflurane or Ketamine/Xylazine on the Murine Immune Response to Influenza Vaccination</b> Tommaso Virgilio (Switzerland)
15:09 – 15:27	<b>S3E1.4</b>	<b>Anaesthesia and Analgesia for Cattle, Sheep, Goats and Pigs Used in Biomedical Research</b> Eddie Clutton (United Kingdom)
15:27 – 15:45	<b>S3E1.5</b>	<b>Refinement of Post-Operative Pain Management in Göttingen Minipigs</b> Cathrine Juel Bundgaard (Denmark)

### Exhibition Area

15:45 – 16:30	<b>Coffee break</b>
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### Plenary Hall (Amphi)

16:30 – 18:00	<b>S3E2</b>	<b>Advances and Challenges in Gnotobiology, a Review of Current Issues</b> <i>Chair: Patrick Hardy (France)</i> <i>Co-Chair: Marijana Basic (Germany)</i>
16:30 – 16:40		<b>Introduction</b> Patrick Hardy (France)
16:40 – 17:00	<b>S3E2.1</b>	<b>Fighting against the Odds: Establishment of a New Germfree Animal Facility during Global Pandemic</b> Alessia Montesano (Germany)
17:00 – 17:20	<b>S3E2.2</b>	<b>Bacterial Viability Monitoring as a Screening Tool for Detection of Contaminants in a Germ-Free Husbandry</b> Stephanie Buchheister (Germany)
17:20 – 17:40	<b>S3E2.3</b>	<b>Monitoring of Gnotobiotic Experiments Performed in Micro-isolator Cages</b> Marijana Basic (Germany)
17:40 – 18:00	<b>S3E2.4</b>	<b>Loss of Oligo-Mouse-Microbiota Lachnospiraceae Members Does Not Increase the Susceptibility to Murine Norovirus-Triggered Colitis</b> Kodwo Appoh Odum (Germany)

## Les Goudes 1

16:30 – 18:00	<b>S3A3</b>	<b>Severity Assessment</b>
		<i>Chair: Bogdan Sevastre (Romania)</i> <i>Co-Chair: Wim de Leeuw (Netherlands)</i>
16:30 – 16:48	<b>S3A3.1</b>	<b>Joint Effort of 3 Belgian Academic Institutions to Standardize Prospective Severity Assessment</b> Stephanie De Vleeschauwer (Belgium)
16:48 – 17:06	<b>S3A3.2</b>	<b>Improved Assessment of Severity Score Sheets by Means of an Advanced Analytical Dashboard</b> Giulia Forcellini (Italy)
17:06 – 17:24	<b>S3A3.3</b>	<b>Estimating Severity Means Estimating Cumulative Severity</b> Wim de Leeuw (Netherlands)
17:24 – 17:42	<b>S3A3.5</b>	<b>Designing a Score Sheet for Welfare Assessment of the Emerging Fish Model <i>Nothobranchius furzeri</i></b> Daniela Giaquinto (Italy)
17:42 – 18:00	<b>S3A3.6</b>	<b>Comparative Severity Assessment of Genetic, Stress-Based and Pharmacological Mouse Models of Depression</b> Anne S. Mallien (Germany)

## Les Goudes 2

16:30 – 18:00	<b>S3D6</b>	<b>Research Quality – Experimental Design</b>
		<i>Chair: Nuno Henrique Franco (Portugal)</i> <i>Co-Chair: Merel Ritskes-Hoitinga (Netherlands)</i>
16:30 – 16:47	<b>S3D6.1</b>	<b>Ensuring Value in Research Funder Forum Preclinical Working Group: Communication between Funders and Disciplines</b> Merel Ritskes-Hoitinga (Netherlands)
16:47 – 17:04	<b>S3D6.2</b>	<b>Randomice, a User-Friendly Randomization Tool in Animal Research</b> Ivo A. C. W. Tiebosch (Netherlands)
17:04 – 17:21	<b>S3D6.3</b>	<b>Informing Sample Size Choices for Confirmatory Preclinical Studies</b> Meggie Danziger (Germany)
17:21 – 17:38	<b>S3D6.4</b>	<b>Communicating Study Outcomes: Significance and Power are Not Enough</b> Bernhard Voelkl (Switzerland)
17:38 – 17:55	<b>S3D6.5</b>	<b>Navigating Preclinical Confirmatory Multicenter Trials</b> Natascha Drude (Germany)

## Callelongue

16:30 – 18:00	<b>S3B6</b>	<b>Rehoming Considerations and Strategies. Session II</b>
		<i>Chair: Javier Guillén (Spain)</i> <i>Co-Chair: Pascale Van Loo (Netherlands)</i>
16:30 – 16:50	<b>S3B6.1</b>	<b>Considerations for the Rehoming of Pigs, Minipigs, Horses and Camelids</b> Emilie Ecuier (France)
16:50 – 17:15	<b>S3B6.2</b>	<b>Re-Homing of Small Laboratory Species – a University Perspective</b> Paulin Jirkof (Switzerland)
17:15 – 18:00		<b>Panel Discussion</b> Emilie Ecuier (France) Monique Janssens (Netherlands) Christel Palmyre Henri Moons (Belgium) Pascale Van Loo (Netherlands)

## Morgiou

16:30 – 18:00	<b>S3D7</b>	<b>Interdisciplinary Dialogues around Animal Research and Care</b>
		<i>Chair: I. Anna S. Olsson (Portugal)</i> <i>Co-Chair: Klas Abelson (Denmark)</i>
16:30 – 16:35		<b>Introduction</b> I. Anna S. Olsson (Portugal)
16:35 – 16:55	<b>S3D7.1</b>	<b>Diagramming Dialogues: Reimagining Conversations Around Patient Involvement and Animal Research</b> Gail Davies (United Kingdom)
16:55 – 17:15	<b>S3D7.2</b>	<b>The Mouse Exchange: What Can Curiosity-Driven Public-Engagement Activities Contribute to Work Around Animal Research?</b> Emma Roe (United Kingdom)
17:15 – 17:35	<b>S3D7.3</b>	<b>Working on the Edge – Transforming Human/Non-Human Relationships through Non-Transactional Interdisciplinary Practice</b> Louise Mackenzie (United Kingdom)
17:35 – 17:55	<b>S3D7.4</b>	<b>Subtle Sounds_Queue Laughter</b> Kathy High (United States)
17:55 – 18:00		Final Remarks

# Wednesday, June 15, 2022

## Plenary Hall (Amphi)

**08:00 – 09:30 S4D1 Moving Towards Openness on Animal Research: How National Transparency Agreements Are Transforming the Conversation with the European Public**

Chair: Kirk Leech (United Kingdom)

Co-Chair: Javier Guillén (Spain)

**08:00 – 08:10 Introduction**

Kirk Leech (United Kingdom)

**08:10 – 08:50 Speakers**

Javier Guillén (Spain)

Monique Havermans (Germany)

Wendy Jarrett (United Kingdom)

Serban Morosan (France)

Ana Isabel Santos (Portugal)

Roman Stilling (Germany)

**08:50 – 09:30 Discussion**

## Auditorium

**08:00 – 09:30 S4G1 Tech Day Session: Culture of Care in Practice**

Chairs: Ken Applebee (United Kingdom) and

Angela Kerton (United Kingdom)

**08:00 – 08:30 S4G1.1 Culture of Care – Setting the Scene**

Susanna Louhimies (Belgium)

**08:30 – 09:00 S4G1.2 Raising Concerns – Culture of Care**

Kathy Ryder (United Kingdom)

**09:00 – 09:30 S4G1.3 Creating Spaces and Resources to Recognize and Support the Emotional Labour of Animal Technologists**

Beth Greenhough (United Kingdom)

Jordi L. Tremoleda (United Kingdom)

## Les Goudes 1

**08:00 – 09:30 S4D2 Aquatics: Welfare and Pain Management**

Chair: Livia D'Angelo (Italy)

Co-Chair: Jean-Philippe Mocho (United Kingdom)

# Oncology & Immuno-Oncology Portfolio

Taconic Biosciences uniquely combines a broad portfolio of models, including advanced genetically engineered models (GEMs) and humanized mice with integrated IP access, with expertise in oncology model generation and breeding, all with an ecosystem of scientific support designed to always provide our customers with the best solution.

## Portfolio Overview

- ▶ Humanized Immune System Mice
- ▶ NOG Mouse Portfolio
- ▶ Syngeneic Tumor Mouse Models & Research Tools
- ▶ Spontaneous Tumor Mice & Rat Models
- ▶ Humanized HLA Mice
- ▶ Immunodeficient Mice and Rats

## Custom Solutions for Oncology and Immuno-Oncology Research

### Model Generation Solutions & Breeding Services

- ▶ Model Acquisition
- ▶ Transition Mutant to Model
- ▶ Scaled Breeding
- ▶ Specialized Services
- ▶ Distribution

### Colony Management Solutions

- ▶ Extensive Health Standard Options
- ▶ True Gnotobiotic Profiles
- ▶ Genetic Monitoring Programs
- ▶ Scientific Leadership & Success Team
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- 08:00 – 08:15 **S4D2.1** **Prepare for Fish Research**  
Adrian Smith (Norway)
- 08:15 – 08:30 **S4D2.2** **Health Monitoring for Fish in Research: Recommendations from the FELASA-AALAS Working Group**  
Jean-Philippe Mocho (United Kingdom)
- 08:30 – 08:45 **S4D2.3** **Advanced Reporting Module for Aquatic Animals in Zebrafish**  
Jana Oltova (Czech Republic)
- 08:45 – 09:00 **S4D2.4** **FELASA Working Group Report: Pain Management in Zebrafish**  
Lynne Sneddon (Sweden)
- 09:00 – 09:15 **S4D2.5** **Enrichment for Laboratory Zebrafish – Sharing and Implementing Good Practice**  
Chloe Stevens (United Kingdom)
- 09:15 – 09:30 **S4D2.6** **Capture and Transport of Live Cephalopods: Recommendations for Scientific Purposes-Outcomes from WG FELASA**  
Graziano Fiorito (Italy)

## Les Goudes 2

- 08:00 – 09:30 S4C1 Innovative Approaches to Education and Training in LAS**  
*Chair: Marcel Gyger (United Kingdom)*  
*Co-Chair: Dolores Bonaparte (Portugal)*
- 08:00 – 08:15 **S4C1.1** **Congento Remote Las Training – Making Ends Meet with a Simple, Low Budget Strategy**  
Dolores Bonaparte (Portugal)
- 08:15 – 08:30 **S4C1.2** **How Edit and Manage an Interactive LAS Textbook of 3,000 Pages on E-Format**  
José M. Orellana (Spain)
- 08:30 – 08:45 **S4C1.3** **“Improve Your Skills” – the Innovative 3R-Skills Lab of the 3R-Centre Giessen**  
Lea Benner (Germany)
- 08:45 – 09:00 **S4C1.4** **Open Access Training Resources: E-Learning Module on Searching for Non-Animal Alternatives**  
Julia Menon (Netherlands)
- 09:00 – 09:15 **S4C1.5** **Virtual Reality and New Media in the Master Program for Laboratory Animal Science (MLAS)**  
Julia Steitz (Germany)
- 09:15 – 09:30 **S4C1.6** **3R’s Advanced Simulation in Surgical and Medical Training in Image-Guided Minimally Invasive Procedures**  
Fanélie Wanert (France)



## Callelongue

**08:00 – 09:30 S4B1 The Designated Veterinarian: Same Job, Different Views***Chair: Samuel Vidal (France)**Co-Chair: Osman Yilmaz (Turkey)*

08:00 – 08:05

**Introduction**

Samuel Vidal (France)

08:05 – 08:15 S4B1.1

**„A Rose by Any Other Name“...Designated Veterinarian / Named Veterinary Surgeon in the UK**

Lucy Whitfield (United Kingdom)

08:15 – 08:25 S4B1.2

**A Point of View from Spain**

Angel Naranjo Pino (Spain)

08:25 – 08:35 S4B1.3

**The Designated Veterinarian in Luxembourg**

Marthe Schmit (Luxembourg)

08:35 – 08:50 S4B1.4

**The Roles of Designated Veterinarian in Croatia**

Dasa Seveljevic (Croatia)

08:50 – 09:00 S4B1.5

**The Role of Designated Veterinarian in Greece**

Argyro Zacharioudaki (Greece)

09:00 – 09:10 S4B1.6

**The Roles of Attending Veterinarians in the United States**

Fernando Benavides (United States)

09:10 – 09:30

**Discussion**

## ePoster Area

**09:30 – 10:15 P4E ePoster Sessions: P4E1, P4E2, P4E3, P4E4, P4E5**

(see pages 74-80)

## Exhibition Area

09:30 – 10:15

**Coffee break**

## Plenary Hall (Amphi)

**10:15 – 11:45 S4B2 Working Together to End ,Severe' Suffering***Chair: Barney Reed (United Kingdom)**Co-Chair: Merel Ritskes-Hoitinga (Netherlands)*

10:15 – 10:25 S4B2.1

**Introduction to the Session - Working Together to End ,Severe' Suffering**

Barney Reed (United Kingdom)

10:25 – 10:40 S4B2.2

**The Designated Veterinarian, a Team Player in the Refinement of Severe Procedures**

Elodie Bouchoux (France)



# **Environmental** Diagnostics

**More Options. More Confidence.**

Modernization in Animal Health Monitoring begins here.

IDEXX **BioAnalytics**

10:40 – 10:55	<b>S4B2.3</b>	<b>Reducing Suffering and Implementing Refinements Is a Team Effort</b> Linda Horan (United Kingdom)
10:55 – 11:10	<b>S4B2.4</b>	<b>A Culture of Dare – Animal Welfare Bodies and the End of Severe Suffering</b> Nuno Henrique Franco (Portugal)
11:10 – 11:25	<b>S4B2.5</b>	<b>Communication Facilitated on Reducing and Finally Ending Severe Suffering</b> Leif R. Lund (Denmark)
11:25 – 11:45		<b>Discussion</b>

### Auditorium

10:15 – 11:45	<b>S4G2</b>	<b>Tech Day Session: Reducing Rodent Aggression and Understanding What Mice Are Telling You?</b> <i>Chairs: Ken Applebee (United Kingdom) and Aurora Brønstad (Norway)</i>
10:15 – 10:40	<b>S4G2.1</b>	<b>Stay Out of My Territory – Understanding and Mitigating Male Mouse Aggression</b> Tamara Baker (United Kingdom)
10:40 – 11:05	<b>S4G2.2</b>	<b>Mice Can also Be in Zen</b> Maria Kiersgaard (Denmark)
11:05 – 11:25	<b>S4G2.3</b>	<b>Understanding Communication of Mice: Is There a Value for Animal Welfare Issues?</b> Christine Pfeifle (Germany)

### Les Goudes 1

10:15 – 11:45	<b>S4A1</b>	<b>Animal Behaviour</b> <i>Chair: Osman Yilmaz (Turkey)</i> <i>Co-Chair: Brianna N. Gaskill (United States)</i>
10:15 – 10:35	<b>S4A1.1</b>	<b>Assessing Physiologic and Behavioral Effects of the Resident-Intruder Psychosocial Stress Paradigm</b> Rebecca Ober (United States)
10:35 – 10:55	<b>S4A1.2</b>	<b>Monitoring Animal Behavior Disturbed by Construction Activities</b> Markus Brielmeier (Germany)
10:55 – 11:15	<b>S4A1.3</b>	<b>Modulating Captive Mammalian Social Behavior: A Scoping Review on Olfactory Treatments</b> Brianna N. Gaskill (United States)
11:15 – 11:35	<b>S4A1.4</b>	<b>From Mating to Milk Access: A Journey through Reproductive Vocal Communication in Mice</b> Sara Capas Peneda (United Kingdom)

## Les Goudes 2

10:15 – 11:45	<b>S4C2</b>	<b>Mutual Acceptance of Education and Training – How to Build Trust on the Quality of Training and Competence Claims</b> <i>Chair: Susanna Louhimies (Belgium)</i> <i>Co-Chair: Jan-Bas Prins (United Kingdom)</i>
10:15 – 10:31	<b>S4C2.1</b>	<b>A Voluntary EU Education and Training Framework in Support of Harmonisation</b> Susanna Louhimies (Belgium)
10:31 – 10:47	<b>S4C2.2</b>	<b>Assuring Competence: Process, Consistency and Transparency in Assessment</b> Lucy Whitfield (United Kingdom)
10:47 – 11:03	<b>S4C2.3</b>	<b>Promoting Consistency in Severity Classification Training across Time and Space</b> Dolores Bonaparte (Portugal)
11:03 – 11:19	<b>S4C2.4</b>	<b>Competence in Laboratory Animal Science: Tips and Traps for Mutual Recognition</b> Rafael Frías (Sweden)
11:19 – 11:35	<b>S4C2.5</b>	<b>ETPLAS for the Benefit of Free Movement of Researchers and Mutual Quality Standards across Europe</b> Jan-Bas Prins (United Kingdom)

## Callelongue

10:15 – 11:45	<b>S4B3</b>	<b>FELASA Today and Tomorrow – How Can You Contribute?</b> <i>Chair: Jean-Philippe Mocho (United Kingdom)</i> <i>Co-Chair: Samuel Vidal (France)</i>
10:15 – 10:30	<b>S4B3.1</b>	<b>FELASA Today and Tomorrow – How Can You Contribute?</b> Belen Pintado (Spain)
10:30 – 10:45	<b>S4B3.2</b>	<b>How You Can Contribute to ICLAS</b> Cynthia Pekow (United States)
10:45 – 11:00	<b>S4B3.3</b>	<b>The European Animal Research Association</b> Kirk Leech (United Kingdom)
11:00 – 11:15	<b>S4B3.4</b>	<b>Laboratory Animal Science Harmonization through Collaboration</b> Scott Mischler (United States)
11:15 – 11:30	<b>S4B3.5</b>	<b>FELASA Working Groups – Communication between and with LAS Community and Legislators</b> Martina Dorsch (Germany)
11:30 – 11:45		<b>Discussion</b>

## Morgiou

10:15 – 11:45 **W4C3** **Come Breed with Us! The Interactive Colony Management Workshop for Virtual GA Mouse Colonies**

*Chair: Sara Wells (United Kingdom)*

**Speakers**

Michelle Stewart (United Kingdom)

Lydia Teboul (United Kingdom)

Sara Wells (United Kingdom)

## Samena

10:15 – 11:45 **W4B4** **Care-Full Stories? Introducing a Training Resource to Explore the 'Culture of Care' from the Perspective of Different Stakeholders**

*Chair: Beth Greenhough (United Kingdom)*

**Speakers**

Beth Greenhough (United Kingdom)

Angela Kerton (United Kingdom)

Jordi L. Tremoleda (United Kingdom)

## Plenary Hall (Amphi)

11:45 – 12:45 **K41** **KEYNOTE LECTURE  
FELASA Award - Challenging the Norm to Achieve the 3Rs - the Value of Data Sharing, Transparency and Openness**

*Chair: Belen Pintado (Spain)*

David Smith (United Kingdom)

## Exhibition Area

12:45 – 14:15 **Lunch break | Commercial workshops**

## Morgiou

13:00 – 14:00 **Rigor and Reproducibility for Mouse-based Research – Experimental Design and Biological Variables to Consider**

*Chair: Kévin P. Dhondt (France)*

**Speakers**

Kenneth Henderson (United States)

Patricia Turner (United States)

Jean Cozzi (France)

  
charles river

## Marseilleveyre

13:00 – 14:00

### How Well Your Washer Washes?

#### Speakers

Jean-Philippe Mocho (United Kingdom)  
Patrick Hardy (France)



## Plenary Hall (Amphi)

14:15 – 15:45

**S4A2**

### (Sponsored by LAL/LAJ) Emerging Technologies for Animal Welfare Assessment

*Chair: Paulin Jirkof (Switzerland)*

*Co-Chair: Jan-Bas Prins (United Kingdom)*



14:15 – 14:20

#### Introduction

Paulin Jirkof (Switzerland)

14:20 – 14:45

**S4A2.1**

#### Getting More from Your Behavior: Using Pose Estimation with Supervised and Unsupervised Machine Learning

Lukas von Ziegler (Switzerland)

14:45 – 15:10

**S4A2.2**

#### Home Cage Monitoring of Animals to Inform Welfare Needs.

Sonia Bains (United Kingdom)

15:10 – 15:35

**S4A2.3**

#### Towards an Automated Facial Expression Analysis in Mice Using Deep Learning

Katharina Hohlbaum (Germany)

15:35 – 15:45

#### Discussion

## Auditorium

14:15 – 15:45

**S4G3**

### Tech Day Session: Come Breed with Us!

*Chairs: Ken Applebee (United Kingdom) and*

*Angela Kerton (United Kingdom)*

14:15 – 14:45

**S4G3.1**

#### Come Breed with Us! GA Colony Management Skills

Sara Wells (United Kingdom)

14:45 – 15:05

**S4G3.2**

#### Female Companionship to End Social Isolation of Male Mice

Ivo A. C. W. Tiebosch (Netherlands)

15:05 – 15:25

**S4G3.3**

#### Improving Group Size Planning of Breedings of Gene-Modified Animals

Thorsten Buch (Switzerland)

15:25 – 15:45

**S4G3.4**

#### A Necropsy Protocol for Newborn Mice

Sara Capas Peneda (United Kingdom)



## Is your *in vivo* research data reproducible?

**Reproducibility starts with choosing the right mice.** An investigation has shown that 50% of past preclinical research is not reproducible, at a cost of US \$28 billion per year (Freedman et al.). By using the correct animal model, you could

increase reproducibility and avoid the loss of time, resources, and possible funding — not to mention reducing the number of animals used.

**What if you could validate/prove your research without buying the first animal model?**

Find out more at: [www.criver.com/modeleval](http://www.criver.com/modeleval)

Freedman LP, Cockburn IM, Simcoe TS (2015). The Economics of Reproducibility in Preclinical Research. PLoS Biol 13(6): e1002165. doi:10.1371/journal.pbio.1002165

  
charles river

## Les Goudes 1

14:15 – 15:45	<b>S4B5</b>	<b>Culture of Care - Learning from Each Other</b> <i>Chair: Nuno Henrique Franco (Portugal)</i> <i>Co-Chair: Javier Guillén (Spain)</i>
14:15 – 14:35	<b>S4B5.1</b>	<b>Assessment of Culture of Care within Laboratory Animal Science Using a Comprehensive Survey Tool</b> Thomas Bertelsen (Denmark)
14:35 – 14:55	<b>S4B5.2</b>	<b>Same Animal Care Culture across Different Human Cultures through AAALAC International Accreditation</b> Javier Guillén (Spain) Abdullah M. Assiri (Saudi Arabia) Delphine Denais-Lalievie (France) Manuel Góngora (Colombia) Montip Gettayacamin (Thailand)
14:55 – 15:15	<b>S4B5.3</b>	<b>Culture of Care: Transparency Initiatives in Germany Part I – Where are We Now?</b> Roman Stilling (Germany)
15:15 – 15:35	<b>S4B5.4</b>	<b>Culture of Care: Transparency Initiatives in Germany Part II – Best Practices and Experiences</b> Sabine Bischoff (Germany)
15:35 – 15:45		<b>Discussion</b>

## Les Goudes 2

14:15 – 15:45	<b>S4D3</b>	<b>Comms Strategies and Means</b> <i>Chair: I. Anna S. Olsson (Portugal)</i> <i>Co-Chair: Birgit Ledermann (Switzerland)</i>
14:15 – 14:20		<b>Introduction</b> I. Anna S. Olsson (Portugal)
14:20 – 14:40	<b>S4D3.1</b>	<b>Communication Strategies to Promote Development and Implementation of Laboratory Animal Regulations</b> Hanna-Marja Voipio (Finland)
14:40 – 15:00	<b>S4D3.2</b>	<b>Walking the Tightrope: How to Balance Diverging Expectations from Science, Politics and the Public</b> Julia Biederlack (Germany)
15:00 – 15:20	<b>S4D3.3</b>	<b>It Is Time to Talk</b> Birgit Ledermann (Switzerland)
15:20 – 15:40	<b>S4D3.4</b>	<b>A Transdisciplinary Tool for Communicating Integrity and Animal Experimentation to High School Students</b> I. Anna S. Olsson (Portugal)



## Callelongue

14:15 – 15:45	<b>S4C4</b>	<b>What Can You Gain from a FELASA Accredited Laboratory Animal Science According to Directive 2010/63/EU?</b>
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*Chair: Marcel Gyger (United Kingdom)*

*Co-Chair: Chris Van Ginneken (Belgium)*

14:15 – 14:40	<b>S4C4.1</b>	<b>FELASA Accreditation: Ensuring Quality Education and Training in Laboratory Animal Science.</b>
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*Nicole Linklater (Germany)*

14:40 – 15:05	<b>S4C4.2</b>	<b>Go, Get (Y)Our LAS Course Accredited!</b>
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*Andreas Teubner (Netherlands)*

15:05 – 15:25	<b>S4C4.3</b>	<b>Classical Versus Online Examinations: Pros and Cons</b>
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*Nicole Linklater (Germany)*

15:25 – 15:45	<b>S4C4.4</b>	<b>Skill Training and Assessment in Laboratory Animal Science Courses.</b>
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*Chris Van Ginneken (Belgium)*

## Exhibition Area

15:45 – 16:30	<b>Coffee break</b>
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## Plenary Hall (Amphi)

16:30 – 18:00	<b>S4A3</b>	<b>Non-Verbal Communication as Tools to Assess Animal Welfare and to Refine Procedures</b>
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*Chair: Viola Galligioni (Ireland)*

*Co-Chair: Martina Perše (Slovenia)*

16:30 – 16:35		<b>Introduction</b>
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*Viola Galligioni (Ireland)*

*Martina Perše (Slovenia)*

16:35 – 16:55	<b>S4A3.1</b>	<b>Assessing Behaviour for Rodent Welfare Monitoring</b>
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*Paulin Jirkof (Switzerland)*

16:55 – 17:15	<b>S4A3.2</b>	<b>Can Hair Steroids Provide Information Regarding Effects of Environment on Rodents Welfare and Behavior?</b>
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*Alberto Elmi (Italy)*

17:15 – 17:35	<b>S4A3.3</b>	<b>Clicker Training for Laboratory Rodents – Cognitive Enrichment and Beyond</b>
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*Nadine Baumgart (Germany)*

17:35 – 17:55	<b>S4A3.4</b>	<b>Rodents Handling and Training for Stress-Free Procedures</b>
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*Therése Ahlström (Sweden)*

17:55 – 18:00		<b>Conclusions</b>
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## Auditorium

16:30 – 18:00	<b>S4G4</b>	<b>Tech Day Session: Talk, Talk and Talk Some More</b> <i>Chairs: Ken Applebee (United Kingdom) and Angela Kerton (United Kingdom)</i>
16:30 – 16:50	<b>S4G4.1</b>	<b>How Communication through a Culture of Care Has Opened our High Containment Doors</b> Lauren Cresser (United Kingdom)
16:50 – 17:20	<b>S4G4.2</b>	<b>Using a Refinement Wiki to Enhance Communication</b> Adrian Smith (Norway)
17:20 – 17:50	<b>S4G4.3</b>	<b>Communication with the Future: Laboratory Animal Science in 2042</b> Marcel Frajblat (Brazil)
17:50 – 18:00	<b>S4G4.4</b>	<b>Conclusions from the FELASA-EFAT Working Group</b> Klas Abelson (Denmark)

## Les Goudes 1

16:30 – 18:00	<b>S4B6</b>	<b>Culture of Care - a Collaborative Effort</b> <i>Chair: Delphine Denais-Lalievie (France)</i> <i>Co-Chair: Kévin P. Dhondt (France)</i>
16:30 – 16:35		<b>Introduction</b> Delphine Denais-Lalievie (France)
16:35 – 16:50	<b>S4B6.1</b>	<b>Transforming Culture: Culture of Care in Animal Research</b> Stephanie Krämer (Germany)
16:50 – 17:05	<b>S4B6.2</b>	<b>The Role of Leadership in Creating a Culture of Care</b> Caroline Back (Sweden)
17:05 – 17:20	<b>S4B6.3</b>	<b>Connecting Parties for a Responsible Stance Towards Animals</b> Monique Janssens (Netherlands)
17:20 – 17:35	<b>S4B6.4</b>	<b>Culture and Collaboration between the Clinician-Scientist and Veterinary Specialist: A Vital Interprofessional Partnership</b> Rebecca Ober (United States)
17:35 – 17:50	<b>S4B6.5</b>	<b>Improving Culture of Care through an Efficient and Agile Animal Welfare Body Organization</b> Kévin P. Dhondt (France)

## Les Goudes 2

16:30 – 18:00	<b>S4C5</b>	<b>Better Education for Better Science</b> <i>Chair: Ranko Stojkovic (Croatia)</i> <i>Co-Chair: Merel Ritskes-Hoitinga (Netherlands)</i>
16:30 – 16:45	<b>S4C5.1</b>	<b>New Interdisciplinary and Co-Creative Education Leads to Action Learning for Both Teachers and Students</b> Merel Ritskes-Hoitinga (Netherlands)
16:45 – 17:00	<b>S4C5.2</b>	<b>Evolving Education to Meet Current and Future Needs</b> Steven Cubitt (United Kingdom)
17:00 – 17:15	<b>S4C5.3</b>	<b>Building Up Laboratory Animal Training Capabilities with International Communities</b> Jordi L. Tremoleda (United Kingdom)
17:15 – 17:30	<b>S4C5.4</b>	<b>Multimodal Approaches for the Implementation of the 3R Principles in Education and Training</b> Leonie Zieglowski (Germany)
17:30 – 17:45	<b>S4C5.5</b>	<b>Ten Years Successful Education on Laboratory Animal Science</b> Johannes Schenkel (Germany)
17:45 – 18:00	<b>S4C5.6</b>	<b>Compliance and Training- Cycle of Improvement</b> Gregory Reinhard (United States)

## Callelongue

16:30 – 18:00	<b>S4A4</b>	<b>Non-Human Primates: Husbandry, Management and Welfare</b> <i>Chair: Jan Langermans (Netherlands)</i> <i>Co-Chair: Claire Witham (United Kingdom)</i>
16:30 – 16:48	<b>S4A4.1</b>	<b>Assessment of Indoor Air Quality and Consequent Recommendations for Group-Housed Macaques</b> Annemiek Maaskant (Netherlands)
16:48 – 17:06	<b>S4A4.2</b>	<b>Identifying Risk Factors for Fight Injuries in a Breeding Colony of Rhesus Macaques</b> Claire Witham (United Kingdom)
17:06 – 17:24	<b>S4A4.3</b>	<b>Detection of Neutralizing Antibodies against Adeno Associated Virus Serotype-2 and 9 in NHP Sera</b> Rajeev Dhawan (United States)
17:24 – 17:42	<b>S4A4.4</b>	<b>The Next Level of Positive Reinforcement: A Personalized Training Approach for Non-Human Primates</b> Quentin Blanc (France)
17:42 – 18:00	<b>S4A4.5</b>	<b>The Reliability and Validity of the Cynomolgus Macaque Grimace Scale</b> Patricia Turner (Canada)

## Morgiou

16:30 – 18:00 **W4C6** **Modern Education and Training Tools – Hands On Worskhop on eModules, Training Assessment Tools, VR and Others**

*Chair: Marcelle Holloway (Italy)*

16:30 – 17:00 **W4C6.1** **ETPLAS Resources Aimed at Facilitating Harmonisation of LAS Education in Europe**

Anne-Dominique Degryse (France)

17:00 – 17:30 **W4C6.2** **Putting the „E“ into „Learning“: Effective, Easy-Access Education with 2010/63/EU Functions E-Learning Modules**

Nuno Henrique Franco (Portugal)

17:30 – 17:40 **W4C6.3** **Education and Training Tools for the Implementation of the Directive and the Three Rs**

Susanna Louhimies (Belgium)

17:40 – 18:00 **Hands-On Time to Get Acquainted with the Free Tools!**

## Riou

16:30 – 18:00 **W4B7** **Technicians' Care & Compassion Toolkit**

*Chair: Bella Williams (United Kingdom)*

**Speakers**

Keith Davies (United Kingdom)

Penny Hawkins (United Kingdom)

Bella Williams (United Kingdom)

# Thursday, June 16, 2022

## Plenary Hall (Amphi)

09:00 – 10:30	<b>S5D1</b>	<b>The Challenges and Opportunities to Improve Public Understanding of the Use of NHP in Research in Europe</b>
		<i>Chair: Serban Morosan (France)</i> <i>Co-Chair: Jan Langermans (Netherlands)</i>
09:00 – 09:05		<b>Introduction</b>
		Serban Morosan (France)
09:05 – 09:25	<b>S5D1.1</b>	<b>The Importance of Openess about Non-Human Primate Research for Public Support</b>
		Thomas Brochier (France)
09:25 – 09:45	<b>S5D1.2</b>	<b>Reflections on Improving the European Public and Decision Makers Understanding of the Use of NHP's in Research in Europe</b>
		Kirk Leech (United Kingdom)
09:45 – 10:05	<b>S5D1.3</b>	<b>Communicating and Conducting NHP Research during a Pandemic, a Supply Shortage and as a Central Component of Biomedical Research</b>
		Stefan Treue (Germany)
10:05 – 10:30		<b>Discussion</b>

## Les Goudes 1

09:00 – 10:30	<b>S5A1</b>	<b>Home Cage Monitoring</b>
		<i>Chair: Jan Honetschläger (Czech Republic)</i> <i>Co-Chair: Sara Fuochi (Switzerland)</i>
09:00 – 09:18	<b>S5A1.1</b>	<b>Data Communication through Digital Cages: Phenotyping Spontaneous Locomotor Activity in Inbred and Outbred Mouse Strains</b>
		Sara Fuochi (Switzerland)
09:18 – 09:36	<b>S5A1.2</b>	<b>An Impedance-Based Automated Home-Cage System Displays Activity Changes in an DSS-Induced Acute Colitis Model</b>
		Eva Zentrich (Germany)
09:36 – 09:54	<b>S5A1.3</b>	<b>Automatic Assessment of Socially Relevant Behaviour in a CNS Injury Mouse Model: Benefits and Challenges</b>
		Jordi L. Tremoleda (United Kingdom)

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- ▶ Dedicated Project Managers complemented by on-demand project data via eTACONIC®
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- 09:54 – 10:12 **S5A1.4** **Exploring the Value Gained by Monitoring Animal Activity during Calcipotriol Induced Atopic Dermatitis Studies**  
Joanna Moore (United Kingdom)
- 10:12 – 10:30 **S5A1.5** **Studying Physical Exercise Effect on Motor Skills of the CMVMJD135 Machado-Joseph Disease Mouse Model**  
Magda João Castelhana-Carlos (Portugal)

## Les Goudes 2

- 09:00 – 10:30 S5C1 Laboratory Animal Surgery – Can We Do Better?**  
*Chair: Petra Seebeck (Switzerland)*  
*Co-Chair: Nikos Kostomitsopoulos (Greece)*
- 09:00 – 09:15 **S5C1.1 Training of Rodent Surgeons – Current Practice and Available Guidelines**  
Felix Gantenbein (Switzerland)
- 09:15 – 09:30 **S5C1.2 From Trainee to Trainer: Lessons Learned through Implementation of a Dual-Catheter Model in Mice**  
Thomas Nielsen (Denmark)
- 09:30 – 09:45 **S5C1.3 Refinements in Perioperative Support for Mice and Rats**  
Claire Hankenson (United States)
- 09:45 – 10:00 **S5C1.4 Translational Large Animal Models for Cardiovascular Applications**  
Nikola Cesarovic (Switzerland)
- 10:00 – 10:15 **S5C1.5 Surgical Training Using a Combination of Simulation and Anaesthetized Pigs**  
Peter Bollen (Denmark)
- 10:15 – 10:30 **S5C1.6 EALAS – Fostering High Standards in Preclinical Surgery**  
Delphine Bouard (France)

## Callelongue

- 09:00 – 10:30 S5A2 Health Monitoring With and Without Sentinels**  
*Chair: Martina Dorsch (Germany)*  
*Co-Chair: Patri Vergara (Spain)*
- 09:00 – 09:03 **Introduction**  
Martina Dorsch (Germany)
- 09:03 – 09:18 **S5A2.1 Genetic and Health Quality Care for Mouse and Rat Breeders**  
Patri Vergara (Spain)
- 09:18 – 09:33 **S5A2.2 Use of Sentinel-Free Agitated Soiled Bedding as a Means to Detect Rodent Pathogens**  
Marcia Hart (United States)

09:33 – 09:48	<b>S5A2.3</b>	<b>Standardization of a Sentinel-Free Bedding Dust Collection Procedure for Rodent Pathogen PCR Detection</b> Kenneth Henderson (United States)
09:48 – 10:03	<b>S5A2.4</b>	<b>Towards Non-Invasive Health Monitoring of Laboratory Mouse Colonies with Lucia-Patriot Sentinels</b> Arkadiusz Miazek (Poland)
10:03 – 10:18	<b>S5A2.5</b>	<b>Murine Chapparovirus DNA and Antibody Detection in Soiled-Bedding Sentinel Mice Is Dose Dependent</b> Kenneth Henderson (United States)
10:18 – 10:30		<b>Discussion</b>

### Morgiou

09:00 – 10:30	<b>W5C2</b>	<b>Improving Research Reporting and Scientific Communication</b> <i>Chair: Cory Brayton (United States)</i>
		<b>Speakers</b> Cynthia Pekow (United States) Ouajdi Souilem (Tunisia)

### Sormiou

09:00 – 10:30	<b>W5D2</b>	<b>Inbred, Outbred and Well-Bred</b> <i>Chair: Michelle Stewart (United Kingdom)</i>
		<b>Speakers</b> Rosie Hiller (United Kingdom) Michelle Stewart (United Kingdom) Sara Wells (United Kingdom)

### Riou

09:00 – 10:30	<b>W5B1</b>	<b>How to Understand and Assess Culture of Care within Academia and Pharmaceutical Settings</b> <i>Chair: Helen Emery (United Kingdom)</i>
09:00 – 09:30	<b>W5B1.1</b>	<b>Defining a Good Culture of Care in an Animals Research Facility and How this Is Translated into Organisational Practices</b> Helen Emery (United Kingdom)
09:30 – 10:00	<b>W5B1.2</b>	<b>Assessment of Culture of Care within Laboratory Animals Science Using a Comprehensive Survey Tool</b> Thomas Bertelsen (Denmark)
10:00 – 10:30		<b>Discussion</b>





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## ePoster Area

10:30 – 11:15	<b>P5E</b>	<b>ePoster Sessions: P5E1, P5E2, P5E3, P5E4, P5E5</b>
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(see pages 80–86)

## Exhibition Area

10:30 – 11:15	<b>Coffee break</b>
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## Plenary Hall (Amphi)

11:15 – 12:45	<b>S5C2</b>	<b>Three Rs Education and Training Outreach</b>
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*Chair: Marcelle Holloway (Italy)**Co-Chair: Sofia Batista Leite (Italy)*

11:15 – 11:20

**Introduction**

Marcelle Holloway (Italy)

Sofia Batista Leite (Italy)

11:20 – 11:40

**S5C2.1****An Overview of Three Rs Education Initiatives Targeting Schools, Universities and Early-Career Professionals**

Marcelle Holloway (Italy)

11:40 – 11:55

**S5C2.3****Advancing Three Rs Uptake in University Education through a European Network**

Marcelle Holloway (Italy)

Laura Gribaldo (Italy)

11:55 – 12:15

**S5C2.2****Introducing the Three Rs into Primary and Secondary Schools**

Lyubov Vasylychuk (Belgium)

12:15 – 12:35

**S5C2.4****Open Access Training Resources: E-Learning Module on the Development of Alternative Methods and Approaches**

Chantra Eskes (Switzerland)

12:35 – 12:45

**Wrap Up**

## Les Goudes 1

11:15 – 12:45	<b>S5D3</b>	<b>Interactive Session: New EU Guidance on Genetically Altered Animals</b>
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*Chair: Susanna Louhimies (Belgium)**Co-Chair: Heinz Brandstetter (Germany)*

11:15 – 11:35

**S5D3.1****Keeping the Right Side of the Law**

Susanna Louhimies (Belgium)

11:35 – 11:55

**S5D3.2****The Three Rs in the Creation and Maintenance of Genetically Altered Animals (GAAS)**

David Anderson (United Kingdom)

11:55 – 12:15	<b>S5D3.3</b>	<b>Drafting and Evaluating Concise Project Applications for Creation / Maintenance of Genetically Altered Animals</b> Kathy Ryder (Belfast, United Kingdom)
12:15 – 12:45		<b>Questions and Answers – Floor Is Yours</b>

### Callelongue

11:15 – 12:45	<b>S5E1</b>	<b>Diagnostic and Testing</b> <i>Chair: Karen Mulkijanyan (Georgia)</i> <i>Co-Chair: Amir Rosner (Israel)</i>
11:15 – 11:30	<b>S5E1.1</b>	<b>Biological Materials Testing – an Often Under-Communicated Component of an Animal Resources Biosecurity Program</b> Marcia Hart (United States)
11:30 – 11:45	<b>S5E1.2</b>	<b>Miriad: Multiplex Immunoassay for Rodents Infectious and Animal Diseases</b> Rémi Malbec (France)
11:45 – 12:00	<b>S5E1.3</b>	<b>Chlamydia muridarum: A Pathobiont Hiding in Plain Sight.</b> Neil S. Lipman (United States)
12:00 – 12:35	<b>S5E1.4</b>	<b>Clinical Case and Pathology Quiz Bowl</b> Cory Brayton (United States)
12:35 – 12:45		<b>Final Remarks and Conclusions</b>

### Morgiou

11:15 – 12:45	<b>W5D4</b>	<b>Public (&amp; Friends and Family) Engagement with Animal Research</b> <i>Chair: Bella Williams (United Kingdom)</i>
	<b>W5D4.1</b>	<b>Public (and Friends and Family) Engagement with Animal Research</b> John Meredith (United Kingdom)

### Sormiou

11:15 – 12:45	<b>W5B2</b>	<b>Communicate Better</b> <i>Chair: Peternella S. Verhave (Netherlands)</i>
		<b>Interactive Session</b> Monique Janssens (Netherlands) Ngaire Dennison (United Kingdom)

## Riou

**11:15 – 12:45    W5D5    How to Promote Public Awareness about Animal Research Using Social Media***Chair: Roman Stilling (Germany)***Speakers**

Monique Havermans (Germany)

Georgios Petrellis (Belgium)

Inês Serrenho (United Kingdom)

Roman Stilling (Germany)

## Plenary Hall (Amphi)

**12:45 – 13:15    Closing and Award Ceremony**

Announcement of award winners (Poster Award, My 3Rs in 180 seconds)

Announcements for FELASA 2025

# ePoster Sessions

## ePoster Area

Monday, June 13, 2022

15:50 – 16:30	<b>P2E1</b>	<b>ePoster Station 1 – It's All About Behaviour</b>
		<i>Chair: Jan Langermans (Netherlands)</i>
15:50 – 15:52		<b>Introduction</b>
		Jan Langermans (Netherlands)
15:52 – 15:55	<b>PA08</b>	<b>Tail-Biting Behaviour in BALB/c Female Mice: Nesting Material and Space Considerations</b>
		Wairimu Gatome (United Kingdom)
15:55 – 15:58	<b>PA05</b>	<b>Behavioral Tests Assessing Anxiety- and Depression-Like Behavior in Mice and the Memory Effect</b>
		Maša Čater (Slovenia)
15:58 – 16:01	<b>PA13</b>	<b>Dietary Manipulations Cause Sex-Dependent Metabolic and Behavioural Changes in Mice</b>
		Jasmina Kerčmar (Slovenia)
16:01 – 16:04	<b>PA20</b>	<b>Using Mice Social Behaviour to Assess Pathogen Transmission Dynamics</b>
		Irene Sanchez Mendez (Spain)
16:04 – 16:07	<b>PB40</b>	<b>Provision of Animal Facilities to Express Natural Behavior</b>
		Manon Vesvres (France)
16:07 – 16:10	<b>PE10</b>	<b>Effect of Chronic Antidepressants and Glucocorticoids in Judgement Bias and Homecage Behaviour in Mice</b>
		Silvina Diaz (Argentina)
16:10 – 16:13	<b>PE16</b>	<b>Behavioral Digital Recordings</b>
		Céline Gommet (France)
15:50 – 16:30	<b>P2E2</b>	<b>ePoster Station 2 – It's All About Communication with Peers</b>
		<i>Chair: Delphine Denais-Lalievé (France)</i>
15:50 – 15:52		<b>Introduction</b>
		Delphine Denais-Lalievé (France)
15:52 – 15:55	<b>PB02</b>	<b>Communication with Scientists and Timed-Mating Rodent Management Can Help Reduce Surplus Animals: our Experience</b>
		Kaja Blagotinšek Cokan (Slovenia)



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 **TECNIPLAST**

15:55 – 15:58	PC05	<b>European Academy of Laboratory Animal Surgery (EALAS)</b> Delphine Bouard (France)
15:58 – 16:01	PC16	<b>The 3Rs Database Programme: Humane Endpoints Website and the Interspecies Database</b> Wim de Leeuw (Netherlands)
16:01 – 16:04	PD01	<b>Communication as Key Element for Centralized Professional Breeding Outsourcing Activities</b> Eva Maria Amen (Switzerland)
16:04 – 16:07	PD08	<b>Medicine Safety in Breastfeeding: Communicating about Animal Data in a Large European Research Consortium</b> Alberto Elmi (Italy)
16:07 – 16:10	PD39	<b>The Importance of Peer-To-Peer Communication in Time of Crisis – the Swiss Experience</b> Xavier Warot (Switzerland)
16:10 – 16:13	PD27	<b>Quality Management: A Good Tool to Manage Crisis Thanks a Better Communication.</b> Anne-Marie Mura (France)
16:13 – 16:16	PD28	<b>Using Dynamic Work Design to Connect People Working in Laboratory Animal Research</b> Judy Murray (United States)
16:16 – 16:19	PD30	<b>Communication in Managing Intellectual Property and Mouse Exportation</b> Mary Proctor (United States)
16:19 – 16:22	PD11	<b>Post-Receipt Client Feedback: Understanding, Communicating and Resolving.</b> Charles River UK Wairimu Gatome (United Kingdom)

### 15:50 – 16:30 **P2E3 ePoster Station 3 – It's All About Fish**

*Chair: Livia D'Angelo (Italy)*

15:50 – 15:52		<b>Introduction</b> Livia D'Angelo (Italy)
15:52 – 15:55	PA03	<b>Learn from the Hoard – Fishends/Fishends-Dig Refinement of Endpoints in Fish Studies</b> Aurora Brønstad (Norway)
15:55 – 15:58	PB23	<b>Zebrafish Sperm Cryopreservation: An Essential Practice for a CRO Specialized in Zebrafish Services</b> Visila Moiche (Spain)
15:58 – 16:01	PB37	<b>The Challenge of Long Duration Anaesthesia for Zebrafish Larvae</b> Ana Valentim (Portugal)



16:01 – 16:04	PC01	<b>Statistical Considerations for the Breeding of Zebrafish and their Use in Experiments</b> Claire Allen (United Kingdom)
16:04 – 16:07	PC41	<b>Evaluating Zebrafish Genotyping Methods with Consideration of the 3R's</b> Lisa Van Hateren (United Kingdom)
16:07 – 16:10	PE14	<b>Controlling Spread of <i>Pseudoloma neurophilia</i> between Zebrafish Facilities</b> Olga M Fernández Rodríguez (Spain)
16:10 – 16:13	PE50	<b>The Fish Embryo Acute Toxicity Test as a Suitable Method for Hospital Wastewater Testing</b> Martina Wittlerova (Czech Republic)
15:50 – 16:30	<b>P2E4</b>	<b>ePoster Station 4 - It's All About Husbandry and Care</b> <i>Chair: Amir Rosner (Israel)</i>
15:50 – 15:52		<b>Introduction</b> Amir Rosner (Israel)
15:52 – 15:55	PC18	<b>Feedback from the Rehabilitation of Training Animals Used in Oniris</b> Jean-Claude Desfontis (France)
15:55 – 15:58	PB18	<b>The Kkay Model for Diabetic Nephropathy: Challenges and Solutions in the Animal Handling</b> Tonny Lagerweij (Netherlands)
15:58 – 16:01	PD24	<b>Rehoming Procedures for Research Dogs and Cats at Veterinary School Oniris in France</b> Yassine Mallem (France)
16:01 – 16:04	PE27	<b>Evaluation of the Estrogenic Activity of Diets Used in Scientific Protocols with Rodents</b> Dominique Martel (France)
16:04 – 16:07	PD26	<b>Implementation of Animal Care and Use Regulations in Countries in Transition: Georgian Experience</b> Karen Mulkijanyan (Georgia)
16:07 – 16:10	PD32	<b>Daily Care of Mice Inside Isolators in a BSL3 Facility</b> Julia Sanchez Garcia (Spain)
16:10 – 16:13	PB36	<b>Upper Airway Management Strategies during Injectable Anesthesia in New Zealand White Rabbits: Preliminary Results</b> Gwenola Touzot-Jourde (France)
16:13 – 16:16	PB44	<b>How to Breed <i>Monodelphis domestica</i>: The Prototype Laboratory Marsupial for Research on Early Life-Stages</b> Paola Zarattini (Italy)



15:50 – 16:30	<b>P2E5</b>	<b>ePoster Station 5 – It's All About Facility Management and Operations</b> <i>Chair: Ranko Stojkovic (Croatia)</i>
15:50 – 15:52		<b>Introduction</b> Ranko Stojkovic (Croatia)
15:52 – 15:55	<b>PC09</b>	<b>Handling of Mtb-Infected Mice in BSL3 Molecular Imaging Laboratory for in Vivo PET/CT Imaging</b> Patricia Casado Castro (Spain)
15:55 – 15:58	<b>PB05</b>	<b>An Alternative Decontamination Procedure of Shipping Containers for Introducing Animals in an Animal Facility</b> Luisa Corsi (Italy)
15:58 – 16:01	<b>PE12</b>	<b>Dealing with Data Overload? Custom Data Management in a Gnotobiotic Facility to Improve Communication</b> Emily Dugan (Australia)
16:01 – 16:04	<b>PD09</b>	<b>Problems with the Regulation of Animal Experiments in Everyday Work. Case Studies from Hungary</b> Kinga Fodor (Hungary)
16:04 – 16:07	<b>PE18</b>	<b>The Change Station as a Hub of Communication in the Animal Room</b> Stephan Hammelbacher (Germany)
16:07 – 16:10	<b>PD13</b>	<b>Role of Regulatory Clearances in Maintaining Research Animals in COVID-19 Crisis: Indian Perspectives</b> Arvind Ingle (India)
16:10 – 16:13	<b>PB19</b>	<b>Correlation of Health Notifications, Genetical Status, Temperature and Humidity in Two Rodent Facilities</b> Varpu Laine (Finland)
16:13 – 16:16	<b>PD23</b>	<b>More Realistic Budgeting in Grant Proposals Would Benefit Research Quality and Animal Welfare</b> Jeannette Lorteije (Netherlands)
16:16 – 16:19	<b>PE45</b>	<b>Investing in the Future: Research &amp; Innovation Park</b> Maria Anna Tsoutsou (Greece)
16:19 – 16:22	<b>PE46</b>	<b>Construction: How a Communication Plan Preserves Animal Welfare, Quality Research, and Relationships between Stakeholders</b> Jeremy Turner (United States)
16:22 – 16:25	<b>PB38</b>	<b>Positive Impact on the Laboratory Mice Welfare by Establishing a Permanent Cage-Changing Day</b> Cristina Verdu-Exposito (Spain)

Tuesday, June 14, 2022

09:35 – 10:15	<b>P3E1</b>	<b>ePoster Station 1 – It's All About Communication Beyond Peers</b>
		<i>Chair: Karen Mulkijanyan (Georgia)</i>
09:35 – 09:37		<b>Introduction</b> Karen Mulkijanyan (Georgia)
09:37 – 09:40	<b>PC04</b>	<b>European Union and Algeria: Statistics on the Use of Animals for Scientific Purposes</b> Abdelouafi Benmouloud (Algeria)
09:40 – 09:43	<b>PD04</b>	<b>Public Confidence, Trust, and Expectations for the Oversight of Invertebrates Used in Scientific Research</b> Michael W. Brunt (Canada)
09:43 – 09:46	<b>PC10</b>	<b>The Romanian Student Perception about Animal Experimentation</b> Cristin Coman (Romania)
09:46 – 09:49	<b>PD05</b>	<b>Communication of the Competent Authority in Romania on Animal Experimentation</b> Cristin Coman (Romania)
09:49 – 09:52	<b>PD07</b>	<b>Conversations with Patients: An Important Approach to Spread Animal Research in Biomedicine to Society</b> Olga M Fernández Rodríguez (Spain)
09:52 – 09:55	<b>PD14</b>	<b>Better Animal Research through Open Science</b> Monique Janssens (Netherlands)
09:55 – 09:58	<b>PC28</b>	<b>The General Public's Opinion about Laboratory Dogs – a Hungarian Survey</b> Gabriella Korsós (Hungary)
09:58 – 10:01	<b>PB16</b>	<b>Communication in Animal Research – Importance of Personality Type and Ethical Viewpoints of Animal Experimentation</b> Valentina Kubale (Slovenia)
10:01 – 10:04	<b>PD18</b>	<b>Fake News in Science and about Science</b> Valentina Kubale (Slovenia)
10:04 – 10:07	<b>PD35</b>	<b>For Better Communication – One Secretariat for Both 3R-Center, National Committee and Animal Experimentation Council</b> Katrine Svendsen (Denmark)

**09:35 – 10:15 P3E2 ePoster Station 2 – It's All About Comparative Medicine**

*Chair: Kévin P. Dhondt (France)*

- 09:35 – 09:37 **Introduction**  
Kévin P. Dhondt (France)
- 09:37 – 09:40 **PD20 Corticosterone Levels in Mouse Models for Inflammatory Bowel Disease: A Systematised Scoping Review**  
Cathalijn Leenaars (Germany)
- 09:40 – 09:43 **PD15 We Need to Talk about Fraudulent Animal Studies – Learnings from a Systematic Review**  
Otto Kalliokoski (Denmark)
- 09:43 – 09:46 **PE30 Bone Parameters Measurement and Analysis in C57BL/6J and BALB/c Mice Via *In Vivo* Imaging**  
Vasileios Ntakis (Greece)
- 09:46 – 09:49 **PA19 Reproductive and Nutritional Parameters in Polygenic Mouse Models of Obesity and Leanness**  
Tatjana Pirman (Slovenia)
- 09:49 – 09:52 **PE34 PDX Tumor Growth Comparisons in the Ultra-Immunodeficient NOD.CB17-PrkdcScid Il2rgTm1/Bcgen (B-Ndg) Mouse Model**  
Travis Rothrock (United States)
- 09:52 – 09:55 **PE41 Anthropometrical Parameters in Experimental Obesity in Sprague-Dawley Rats**  
Bogdan Sevastre (Romania)
- 09:55 – 09:58 **PB32 Reassessment of the Mouse Estrous Cycle by Sensitive Measurements of Circulating Estradiol and Progesterone**  
Malan Strbenc (Slovenia)
- 09:58 – 10:01 **PE43 Thymus in CB57BL/6 Mice; a Morphological Study from Adolescence to Senescence**  
Anastasia Tsingotjidou (Greece)
- 10:01 – 10:04 **PE44 Forelimb Comparative Anatomy of Different Laboratory Animal Species**  
Anastasia Tsingotjidou (Greece)
- 10:04 – 10:07 **PD38 Comparing Translational Success Rates across Medical Research Fields**  
Gwen Van de Wall (Netherlands)

09:35 – 10:15 **P3E3** **ePoster Station 3 – It's All About How to Prepare, Report and Learn**

*Chair: Nuno Henrique Franco (Portugal)*

- 09:35 – 09:37 **Introduction**  
Nuno Henrique Franco (Portugal)
- 09:37 – 09:40 **PD02** **Reporting of Risks of Bias in Animal Research: An Automated Institutional Monitoring Dashboard**  
Alexandra Bannach-Brown (Germany)
- 09:40 – 09:43 **PD17** **Comparing Reporting Quality of Preclinical Animal Studies in 2009 Versus 2018 – a Nationwide Study**  
Birgitte Saima Kousholt (Denmark)
- 09:43 – 09:46 **PB42** **Statistics Versus Animal Welfare: Validation of the Experimental Unit in the Focus of 3R.**  
Miriam Vogt (Germany)
- 09:46 – 09:49 **PC34** **A New Facility for the Systematic Review and Meta-Analysis of Animal Studies**  
Torsten Rackoll (Germany)
- 09:49 – 09:52 **PD31** **3R Ranker: An Artificial Intelligence Based Algorithm to Identify Replacement Alternatives**  
Merel Ritskes-Hoitinga (Netherlands)
- 09:52 – 09:55 **PD34** **Microdialysis of Adrenaline and Corticosteroids in Animals and Humans: A Systematic Review**  
Bobbie Smith (Germany)
- 09:55 – 09:58 **PC40** **My Animal Research: Experimental Design, a Personalized, Practice-Based Learning Track for PhD Students**  
Ivo A. C. W. Tiebosch (Netherlands)
- 09:58 – 10:01 **PE48** **Challenges of 3R Industrialization: The Example of Tetanus Vaccines**  
Viktória Vágány (Hungary)
- 10:01 – 10:04 **PD19** **Comparing Animal and Human Scientific Literature: Implications for Automation of Systematic Reviews**  
Cathalijn Leenaars (Germany)

09:35 – 10:15 **P3E4** **ePoster Station 4 – It's All About Refinement with Mice**

*Chair: Yann Herault (France)*

- 09:35 – 09:37 **Introduction**  
Yann Herault (France)
- 09:37 – 09:40 **PB13** **Implementing Cup and Tunnel Handling in a (Large) Pharmaceutical Rodent Facility**  
Maria Kiersgaard (Denmark)

- 09:40 – 09:43 **PB25** **Utility of Environmental Enrichment in Naturally-Aged Mice Breeding**  
Noboru Ogiso (Japan)
- 09:43 – 09:46 **PA18** **The Effect of Clicker Training on the Acute Physiological Stress Response in C57BL/6J Mice**  
Dorothea Pichl (Germany)
- 09:46 – 09:49 **PB29** **Implementation of Non-Aversive Handling in Mice in an ABSL3 Facility**  
Violeta Solis Soto (Spain)
- 09:49 – 09:52 **PB30** **Refinement of Co<sub>2</sub> Euthanasia in Mice**  
Violeta Solis Soto (Spain)
- 09:52 – 09:55 **PB34** **Familiarizing Mice with Tonometric Intraocular Pressure Measurements**  
Anni Tenhunen (Finland)
- 09:55 – 09:58 **PB43** **Effect Gnawing Wood on Disease Induction in a Mouse Model for Diet-Induced Non-Alcoholic Steatohepatitis**  
Nicole Worms (Netherlands)
- 09:58 – 10:01 **PE52** **How to Improve and Refine the Elevated Plus Maze for Laboratory Mice**  
Aur lie Zaros (Belgium)

**09:35 – 10:15 P3E5 ePoster Station 5 - It's All About Non-Human Primates**

*Chair: Ken Applebee (United Kingdom)*

- 09:35 – 09:37 **Introduction**  
Ken Applebee (United Kingdom)
- 09:37 – 09:40 **PA01** **Painting as a Means of Promoting Positive Human-Primate Interactions**  
Nora Denk (Switzerland)
- 09:40 – 09:43 **PE19** **A New Group Housing Approach for Non-Human Primate Metabolism Studies**  
Jesper Juhl Hansen (Denmark)
- 09:43 – 09:46 **PB17** **Acute Aspiration Pneumonia in Common Marmoset (*Callithrix jacchus*) with Marmoset Duodenal Dilation Syndrome.**  
Jina Kwak (Korea, Republic of)
- 09:46 – 09:49 **PE28** **Effect of Weaning on *Campylobacter* Infection in a UK Breeding Colony of Rhesus Macaques**  
David Massey (United Kingdom)
- 09:49 – 09:52 **PB21** **Impact of Optimized Housing and Modernized Ultrasound Techniques on Fetal Growth Curves in Macaques**  
Annemiek Maaskant (Netherlands)

- 09:52 – 09:55 **PC32** **The NHP-Specific FELASA Course: Practical Training (in Times of Social Distancing)**  
Björg Pauling (Germany)
- 09:55 – 09:58 **PA22** **Homeage Testing Device to Evaluate Cognitive Learning in a Group of Related Common Marmosets.**  
Cléo Schoeffel (France)
- 09:58 – 10:01 **PB33** **NHP Refinement: Behavioral Management Programs Combining Training and Design for Laboratory Animals Mental Well-Being**  
Nadine E. Suendermann (Germany)
- 10:01 – 10:04 **PA25** **Use of Post-Operative Nighttime Behaviour to Assess the Efficacy of Analgesic Protocols in Research Macaques**  
Patricia Turner (Canada)
- 10:04 – 10:07 **PE53** **Does Behaviour Predict Overweight in Captive Group-Living Rhesus Macaques?**  
Dian Zijlmans (Netherlands)

## Wednesday, June 15, 2022

### 09:33 – 10:15 **P4E1 ePoster Station 1 – It's All About Education and Training**

*Chair: Nikos Kostomitsopoulos (Greece)*

- 09:33 – 09:35 **Introduction**  
Nikos Kostomitsopoulos (Greece)
- 09:35 – 09:38 **PC02 Adapting Training Structure during the COVID-19 Pandemic: The Experience of Fondazione Guido Bernardini**  
Federica Baldin (Italy)
- 09:38 – 09:41 **PC03 Best Practice in Animal Welfare Education for Roche Apprentices**  
Christine Bauer (Switzerland)
- 09:41 – 09:44 **PA02 Validation of Reproducibility after E.coli Nissle Infection in Intestinal Organoids**  
Andre Bleich (Germany)
- 09:44 – 09:47 **PC06 Fulfill 3R in Practical Courses with Mice, and the Cherry on the Cake: 5R**  
Valentine Bouet (France)
- 09:47 – 09:50 **PC12 Assessment of Researcher's Practical Skills in Laboratory Animal Sciences Courses**  
Andreia Costa (Portugal)

- 09:50 – 09:53 **PC13** **Importance of Laboratory Animal Science Training in an Education Institution**  
Anelise Maria Costa Vasconcelos Alves (Brazil)
- 09:53 – 09:56 **PC17** **Setting Up Virtual Practical Workshops in Regulatory Education/Training Courses for Laboratory Animal Users**  
Jean-Claude Desfontis (France)
- 09:56 – 09:59 **PC19** **„How We’ve Always Done It’: Facing Difficulties in Virtual Learning**  
Karen Dunford (United Kingdom)
- 09:59 – 10:02 **PC25** **Education in the Laboratory Animal Science in Oncology; Experience in Center of Molecular Immunology.**  
Addys Gonzalez Palomo (Cuba)
- 10:02 – 10:05 **PC29** **Challenges in the Teaching of Laboratory Animal Science and the Need to Improve Openness.**  
Gabriella Korsós (Hungary)
- 10:05 – 10:08 **PC30** **How Do Trainees Evaluate Realtime Online and Live Lectures in Laboratory Animal Science Course?**  
Pavlos Lelovas (Greece)
- 10:08 – 10:11 **PC31** **Competence Assessment Methodology Development for Laboratory Rodents Handling in Congento, a Portuguese Research Infrastructure**  
Sofia Leocádio (Portugal)

09:33 – 10:15 **P4E2** **ePoster Station 2 - It's All About Innovation and Improvement**

*Chair: Boris Jerchow (Switzerland)*

- 09:33 – 09:35 **Introduction**  
Boris Jerchow (Switzerland)
- 09:35 – 09:38 **PC07** **3Rs Importance in Practical Teaching: Study of Cardio-respiratory Physiology with a Non-Invasive Telemetric Jacket**  
Agathe Cambier (France)
- 09:38 – 09:41 **PC26** **Toward the Development of a 3D Simulator for Training the Mouse *In Utero* Electroporation**  
Fernando Gonzalez-Uarquin (Germany)
- 09:41 – 09:44 **PB10** **Connecting the Virtual Mouse House to the Real World**  
Astrid Fabry (Austria)
- 09:44 – 09:47 **PD10** **Transition from Data Anarchy to Professional Colony Management Database Scenario: Dataflow and Communication Strategies**  
Sara Fuochi (Switzerland)



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09:47 – 09:50	PE40	<b>State of the Art Rodent Strain Documentation Software</b> Doris Schneller (Germany)
09:50 – 09:53	PD12	<b>MRI to Improve Animal Research</b> Diane Genies (France)
09:53 – 09:56	PE22	<b>Skeletal Malformations in Mice and the Magic of X-Ray Diagnostics</b> Britta Klein (Germany)
09:56 – 09:59	PE24	<b>CMS: A Refinement and Reduction Initiative that Can also Increase Data Quality</b> Janne Koch (Denmark)
09:59 – 10:02	PC39	<b>Anidrop, an Innovative 3R Tool for All</b> Julien Thévenet (France)
10:02 – 10:05	PE35	<b>Vitrification of Mouse Embryos in IMBB-FORTH Mouse Facility</b> Hara Roumpaki (Greece)
10:05 – 10:08	PA11	<b>E-C@GE: Instrumentation for Remote Measurement and Management of Laboratory Animal Welfare</b> Damien Gervasoni (France)
10:08 – 10:11	PD22	<b>Optimising Nasal Potential Difference Testing in Mice</b> Cathalijn Leenaars (Germany)

#### 09:35 – 10:15 **P4E3 ePoster Station 3 - It's All About Rats**

*Chair: Bogdan Sevastre (Romania)*

09:35 – 09:37		<b>Introduction</b> Bogdan Sevastre (Romania)
09:37 – 09:40	PA04	<b>A Super Enriched Cage for Rats and Staff</b> Tina Brønnum Pedersen (Denmark)
09:40 – 09:43	PC43	<b>Rederivation of Streptococcus - Infected Rats by Caesarean Section and Cross Fostering -Practical Aspects.</b> Katarzyna Joanna Zelewska (Norway)
09:43 – 09:46	PC11	<b>Evaluation of a New Telemetry Jacket System for Rats</b> Valerie Cordier (Switzerland)
09:46 – 09:49	PA14	<b>Socializing the Diet Induced Obese Rat – No More Grumpy Old Rats</b> Maria Kiersgaard (Denmark)
09:49 – 09:52	PE21	<b>Bodyweight, Locomotion, and Behavioral Responses in the Naked Mole-Rat (<i>Heterocephalus glaber</i>) after Lipopolysaccharide Administration</b> Mosiany Kisipan (Denmark)
09:52 – 09:55	PC36	<b>Handling of Rats for Beginners</b> Rita Sanchez-Brandelik (Germany)

- 09:55 – 09:58 **PA24** **Effects of Anti-Inflammatory Drugs on Induced Chronic Inflammation in the Naked Mole Rat**  
Jesse Thuo (Denmark)
- 09:58 – 10:01 **PA26** **Metabolic Rate during Simulated Dispersal in Strictly Subterranean Rodent, the Giant Mole-Rat (*F. mechowii*)**  
Zuzana Vavrušková (Czech Republic)
- 10:01 – 10:04 **PC08** **Refining the Implementation of Surgical Protocols: Benefits of Non-Invasive Cardiorespiratory Monitoring in Rat**  
Agathe Cambier (France)

**09:33 – 10:15 P4E4 ePoster Station 4 - It's All About Mitigating Adverse Effects**

*Chair: Virginie Dangles-Marie (France)*

- 09:33 – 09:35 **Introduction**  
Virginie Dangles-Marie (France)
- 09:35 – 09:38 **PC24** **Innovative Animal-Free Training to Stereotaxic Neurosurgery**  
Damien Gervasoni (France)
- 09:38 – 09:41 **PE13** **Autologous Blood-Derived Patches: A New Means of Preventing Postsurgical Adhesions**  
Morten Eskildsen (Denmark)
- 09:41 – 09:44 **PC21** **Poster for Guidance on Aseptic Technique during Rodent Surgery**  
Felix Gantenbein (Switzerland)
- 09:44 – 09:47 **PC22** **Systematic Review on Guidelines for Good Surgical Practice in Experimental Rodent Surgery**  
Felix Gantenbein (Switzerland)
- 09:47 – 09:50 **PC23** **Survey on Current Training Practices of Rodent Surgeons**  
Felix Gantenbein (Switzerland)
- 09:50 – 09:53 **PA07** **Evaluation of Metamizole and Buprenorphine as Post-Laparotomy Analgesic Agents in Rats**  
Fatima-Zahra Khamlichi (France)
- 09:53 – 09:56 **PB15** **Refining Ketamine Anesthesia in C57BL/6 Mice**  
Sefanie Kolstrup (Denmark)
- 09:56 – 09:59 **PE29** **Molecular Hydrogen Protects Mouse Sperm Mitochondria from Oxidative Stress and Improves Sperm Motility**  
Yoshihiro Noda (Japan)
- 09:59 – 10:02 **PE31** **Improved *In Vitro* Fertilization Rate after Oral Treatment of Male B6N Mice with D-Aspartate**  
Manon Peltier (Germany)
- 10:02 – 10:05 **PC35** **Serum Buprenorphine, Corticosterone and Clinical Efficacy of Oral Buprenorphine in Rats Undergoing Major Surgery**  
Henrik Rasmussen (Norway)

- 10:05 – 10:08 **PB31** **Enhanced Perioperative Respiratory Management of Sheep Undergoing Experimental Surgery**  
Marzia Stabile (Italy)
- 10:08 – 10:11 **PE47** **Formalin-Fixed, Paraffin-Embedded Samples in Animal Research: A Source for RNA Expression Analysis**  
Ana Unkovič (Slovenia)

09:33 – 10:15 **P4E5** **ePoster Station 5 - It's All About Welfare**

*Chair: I. Anna S. Olsson (Portugal)*

- 09:33 – 09:35 **Introduction**  
I. Anna S. Olsson (Portugal)
- 09:35 – 09:38 **PD21** **The Nasal Potential Difference Test for Assessing Cystic Fibrosis Disease Severity: A Systematic Review.**  
Cathalijn Leenaars (Germany)
- 09:38 – 09:41 **PA09** **Assessment of Wellbeing and Pain in a *Citrobacter rodentium* Infection Mouse Model**  
Jonathan Gehring (Germany)
- 09:41 – 09:44 **PA10** **Development of a Camelid Grimace Scale to Recognize Pain in Llamas and Alpacas**  
Marc Geldhof (Belgium)
- 09:44 – 09:47 **PC27** **One Size Does Not Fit All – Better Animal Welfare by Designing Better Score Sheets**  
Maike Heimann (Switzerland)
- 09:47 – 09:50 **PB04** **The Impact of Mirrors in Enhancing Animal Welfare of Single Housed Rabbits**  
Luisa Corsi (Italy)
- 09:50 – 09:53 **PE26** **Development of a Protocol for Assessing the Welfare of a Research Sheep Flock**  
Vanessa Louzier (France)
- 09:53 – 09:56 **PA15** **Modulation of Nociception by Noradrenaline and Serotonin Receptor Systems in Speke's Hinge-Back Tortoise**  
Christopher Musembi Makau (Denmark)
- 09:56 – 09:59 **PA16** **A Comparison of Welfare Indicators of Group Housed Rats in Semi-Naturalistic and Standard Cages.**  
Richard Mavunganidze (South Africa)
- 09:59 – 10:02 **PB20** **Third Party Assessments: Introducing a New Standard to Improve Animal Welfare**  
Matthew McLoughlin (United States)

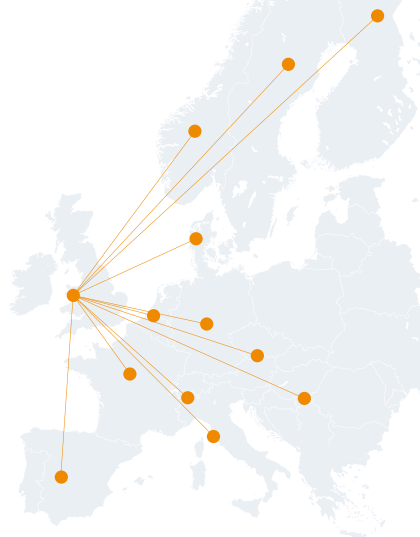
10:02 – 10:05	PB27	<b>Versatile E-Score Sheet Table for Severity Evaluation with Free and Open Access</b> José M. Orellana (Spain)
10:05 – 10:08	PE32	<b>Monitoring of Pain and Wellbeing in a Chronic Colitis <i>IL10</i>-Deficient Mouse Model</b> Pia Pascale Peppermüller (Germany)
10:08 – 10:11	PA21	<b>Mice Welfare Assessment after Heterologous Red Blood Cell Transfusion</b> Nikolaos Sarakavazis (Greece)
10:11 – 10:14	PA28	<b>Multimodal Severity Assessment in Laboratory Sheep after Surgery</b> Eva Zentrich (Germany)

## Thursday, June 16, 2022

10:35 – 11:15	P5E1	<b>ePoster Station 1 – It's All About Health and Disease</b> <i>Chair: Jan-Bas Prins (United Kingdom)</i>
10:35 – 10:37		<b>Introduction</b> Jan-Bas Prins (United Kingdom)
10:37 – 10:40	PE08	<b>Sudden Death of Immunocompromised-Mice Caused by Cytolysin Induced Septicemia after Infection with <i>Paeniloclostridium sordelii</i></b> Stephanie Buchheister (Germany)
10:40 – 10:43	PE05	<b>Pathological Findings Underlying Abdominal Distension in an Experimental Facility of Laboratory Mice</b> Sergio Berdun (Spain)
10:43 – 10:46	PD03	<b>Voltage-Gated Sodium Channels Na<sub>v</sub>1.7 and Na<sub>v</sub>1.8 Inhibitors Have Potential to Inhibit Cough in Guinea pigs</b> Mariana Brozmanova (Slovakia)
10:46 – 10:49	PE02	<b>Microbiota Changes after Local Colitis Treatment with a Drug-Elution Hydrogel with Biologics in Rat</b> Sandra Barbosa (Spain)
10:49 – 10:52	PA12	<b>A Clinical Case of Imperforate Vagina in a CRL:CD1 (LCR) Mouse</b> Zoe Holden-Hart (United Kingdom)
10:52 – 10:55	PD16	<b>LACE1 Deficiency Accelerates Browning of Inguinal White Adipose Tissue in Mice</b> Youn Ju Kim (Korea, Republic of)
10:55 – 10:58	PE23	<b>Nature's Curiosities – Bilateral Gynandromorphism in Mice</b> Britta Klein (Germany)

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10:58 – 11:01	PD25	<i>Staphylococcus Aureus</i> Infection Induces Hypoxia in Intestinal Cells and Alters Oxysterol/Cholesterol Ratio Ahmed Elmontaser Mohamed (Germany)
11:01 – 11:04	PC33	Interactions and Readout between Mouse Gut Microbiome and Infections by Using 'Altered Schaedler Flora' Rebecca Nistelberger (Austria)
11:04 – 11:07	PB39	Long-Term Effects of Four Commercial Beddings in the Lungs of Aged Mice Cristina Verdu-Exposito (Spain)

### 10:35 – 11:15 **P5E2 ePoster Station 2 - It's All About Monitoring**

*Chair: Ranko Stojkovic (Croatia)*

10:35 – 10:37		<b>Introduction</b> Ranko Stojkovic (Croatia)
10:37 – 10:40	PE49	<b>Hospital Wastewaters – Cyto/Genotoxicity Assessed by Non-Animal Methods</b> Alena Vlkova (Czech Republic)
10:40 – 10:43	PE06	<b>A qPCR Assay for the Detection of <i>Staphylococcus Aureus</i> in Laboratory Animal Health Monitoring</b> Lena Brix (Germany)
10:43 – 10:46	PB01	<b>What Monitoring of Rehomed Animals Can Tell about the Shortcomings of Regulatory Housing Conditions</b> Dominique Autier-Déran (France)
10:46 – 10:49	PD06	<b>Development of a SARS-CoV2 (COVID19) Multiplex for Serological Screening of Lab Animal Colonies</b> Rajeev Dhawan (United States)
10:49 – 10:52	PE20	<b>Cage-Level Environmental Sampling Provides Increased Sensitivity in <i>Pneumocystis Carinii</i> Detection</b> Marcia Hart (United States)
10:52 – 10:55	PB14	<b>New Method to Control Laboratory Animal Health and Care</b> Annamária Kiss (Hungary)
10:55 – 10:58	PE33	<b>Evaluation of Substrate Materials in a Rodent Health Monitoring Program</b> Mary Proctor (United States)
10:58 – 11:01	PA23	<b>Health Monitoring in an AAALAC Accredited Animal Facility in the Sense of the 3Rs</b> Diana Ströbel (Germany)
11:01 – 11:04	PE07	<b>A Novel and Highly Sensitive qPCR Assay Detects <i>Clostridium piliforme</i> in EAD Material</b> Stephanie Buchheister (Germany)

10:35 – 11:15	<b>P5E3</b>	<b>ePoster Station 3 – It's All About Culture of Care</b>
		<i>Chair: Angela Kerton (United Kingdom)</i>
10:35 – 10:37		<b>Introduction</b>
		Angela Kerton (United Kingdom)
10:37 – 10:40	<b>PB06</b>	<b>The French Network of Animal Welfare Bodies (RN-SBEA): Actions and Projects</b>
		Delphine Denais-Lalievie (France)
10:40 – 10:43	<b>PB07</b>	<b>Ethical Concerns of Animal Use in Research – Laws, Recommendations and Culture of Care</b>
		Ismene Dontas (Greece)
10:43 – 10:46	<b>PB11</b>	<b>How Do Laboratory Animal Researchers and Professionals Perceive Welfare? An Exploratory Study</b>
		Young-Shin Joo (Korea, Republic of)
10:46 – 10:49	<b>PB12</b>	<b>Ethical Management of Crisis</b>
		Abdullah Kandira (Germany)
10:49 – 10:52	<b>PB24</b>	<b>Creating an Emotionally Engaged Culture to Address Compassion Stress and Build Resiliency</b>
		Judy Murray (United States)
10:52 – 10:55	<b>PB26</b>	<b>Compassion Fatigue and Coping Mechanisms in UK and EU Research Animal Professionals</b>
		Carly O'Malley (United States)
10:55 – 10:58	<b>PC37</b>	<b>A Company Internal 3R Award Improves Animal Welfare and Study Outcomes</b>
		Carola Schäfer (Germany)
10:58 – 11:01	<b>PD33</b>	<b>Building a 3R-Network and Increasing Outreach: A Case Report</b>
		Roberto Plasenzotti (Austria)
11:01 – 11:04	<b>PB35</b>	<b>A Culture of Care for Human Wellbeing: The Importance of Cross-Pollination across Animal-Related Fields</b>
		Sally Thompson-Iritani (United States)
11:04 – 11:07	<b>PB41</b>	<b>The New Methodology: The 6 Cs in the Culture of Care (COC)</b>
		Anna Vilà (Spain)
10:35 – 11:15	<b>P5E4</b>	<b>ePoster Station 4 – It's All About Pigs</b>
		<i>Chair: Aurora Brønstad (Norway)</i>
10:35 – 10:37		<b>Introduction</b>
		Aurora Brønstad (Norway)
10:37 – 10:40	<b>PE01</b>	<b>Building an Animal Lactation Model: Pilot Amoxicillin Study in Conventional Pigs and Göttingen Minipigs</b>
		Camilla Anibaldi (Italy)

10:40 – 10:43	<b>PB03</b>	<b>Considerations of Refinement in the Swine Facility of Cerimed</b> Pauline Brige (France)
10:43 – 10:46	<b>PB09</b>	<b>Contactless Monitoring Methods in Large Animal Species – a Case Study in Pigs</b> Lisa Ernst (Germany)
10:46 – 10:49	<b>PD40</b>	<b>Adoption of Minipigs – a Second Life after Research</b> Veronika Gramling (Germany)
10:49 – 10:52	<b>PD29</b>	<b>Are SPF Guinea Pigs the Best Model for Experiments in Respiratory Physiology?</b> Jana Plevkova (Slovakia)
10:52 – 10:55	<b>PC38</b>	<b>Sharing Best Practices When Working with Göttingen Minipigs</b> Susi Søgaard (Denmark)
10:55 – 10:58	<b>PD36</b>	<b>Health Monitoring in Farm Pigs Used for Research Purposes – a Practical Example</b> Anders Fick Thomsen (Denmark)
10:58 – 11:01	<b>PD37</b>	<b>Transition of Farm Pigs to Research Pigs Using a Checklist – a Refinement Initiative</b> Anders Fick Thomsen (Denmark)
11:01 – 11:04	<b>PC42</b>	<b>Highly Realistic Swine Model for Training in Therapeutic Endoscopic Ultrasound</b> Fanélie Wanert (France)
11:04 – 11:07	<b>PA27</b>	<b>Implantation of a Rat Vascular Access Buttons in Göttingen Minipigs</b> Adrian Zeltner (Denmark)

#### 10:35 – 11:15 **P5E5 ePoster Station 5 - It's All About Models**

*Chair: Amir Rosner (Israel)*

10:35 – 10:37		<b>Introduction</b> Amir Rosner (Israel)
10:37 – 10:40	<b>PC20</b>	<b>Development and Domestication of an Internal Lineage of Black Rats for Laboratories Studies</b> Fafournoux Ambre (France)
10:40 – 10:43	<b>PE04</b>	<b>Intestinal Microbiota Determines the Outcome of Colitis Pathogenesis in Interleukin 10-Deficient Mice</b> Marijana Basic (Germany)
10:43 – 10:46	<b>PE09</b>	<b>Galleria mellonella Model Host: A Potential in Vivo Tool to Assess Antibody Functionality</b> Emiliano Chiarot (Italy)





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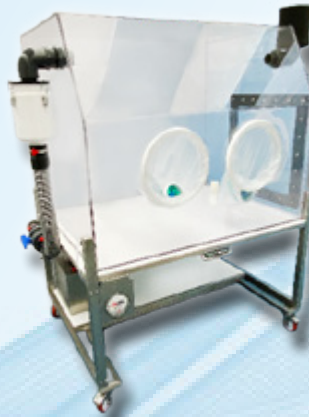
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- 10:46 – 10:49 **PA06** **Setting-Up a Multimodal and Integrated Sensory Platform to Analyze Mouse Models in Aging Research**  
Elena De Felice (Italy)
- 10:49 – 10:52 **PE15** **Refinement of Mannan-Induced Psoriatic Arthritis Mouse Model Using Non-Invasive Imaging Techniques**  
Pierre-Yves Fortin (France)
- 10:52 – 10:55 **PE17** **Usefulness of an Experimental Model of Extracorporeal Blood Purification in Research and Development.**  
Abdessalem Hammed (France)
- 10:55 – 10:58 **PE25** **Hematology Analyzer Results in Immunodeficient Mice: Mind the Trap!**  
Catherine Layssol-Lamour (France)
- 10:58 – 11:01 **PE42** **Optimization of Skin Sensitization Testing Strategy *In Vitro* for Medical Device Extracts**  
Lada Svobodova (Czech Republic)
- 11:01 – 11:03 **PE51** **The Gunn Rat in the 2022: A New Model Better Representing the Human Scenario**  
Paola Zarattini (Italy)



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