



**Austrian 3Rdays**

**2026**

**Building Bridges  
Bursting Bubbles**



Vienna

**April 28 - 30, 2026**

# PROGRAM





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## A WARM WELCOME TO THE AUSTRIAN 3RDAYS 2026

Dear 3R and NAMs community,

On behalf of the Austrian 3R Center (A3RC) and the RepRefRed Society, we are delighted to invite you to the Austrian 3Rdays 2026 under this year's theme: Building Bridges – Bursting Bubbles: Spotlights on 3Rs & NAMs.

This year's meeting will span the full spectrum of the 3Rs - Refinement (Verfeinerung), Reduction (Verminderung), and Replacement (Vermeidung) – and NAMs (New Approach Methodologies) with a special focus on connecting disciplines, accelerating adoption, and challenging entrenched assumptions.

We are pleased to welcome outstanding national and international keynote speakers. In addition, selected short talks from submitted abstracts will spotlight emerging research by early-career scientists. For the first time, a poster jam will highlight the subsequent poster session.

Session topics focus on:

- NAMs and 3Rs in Infectiology, Oncology and Clinical Translation
- Various spotlights on Refinement and Reduction
- Opportunities and challenges at the interfaces of science, regulation, and practice

The program also features a one-minute Poster Jam, where young scientists can preview their work in any format - speaking, rapping, singing, dancing, and more - right before the poster walk to spark interest in their posters, a Start ups in 3Rs and NAMs session, industry sessions and AI.

A huge THANK YOU goes to Vetmeduni for providing an inspiring atmosphere on the Vetmeduni campus, to the Ignaz Semmelweis Institute, and to all our sponsors, supporters, and exhibitors for their valuable contributions, as well as to the Federal Ministry of Women, Science and Research.

We look forward to welcoming you to an engaging and vibrant Austrian 3Rdays 2026- Building Bridges – Bursting Bubbles!

Best Regards,

Mag.a Dr.in Birgit Reininger-Gutmann

Prof.in Dr.in Doris Wilflingseder

Prof.in Dr.in Beate Rinner

Mag. Dr. Roberto Plasenzotti



Sehr geehrte Damen und Herren,

als Bundesministerin für Frauen, Wissenschaft und Forschung ist mir ein verantwortungsvoller Umgang mit Tieren in der Forschung ein großes Anliegen. Die 3R – Replace, Reduce, Refine– spielen dabei eine ganz zentrale Rolle.

Tierversuche sind für die Life Sciences und die medizinische Forschung nach wie vor von Relevanz, da sie in vielen Bereichen noch nicht vollständig ersetzbar sind. Die dabei gewonnenen Erkenntnisse kommen nicht nur Menschen zugute, sondern auch Tieren und der Umwelt. Gleichzeitig besteht breite Einigkeit darüber, Tierversuche auf das notwendige Minimum zu beschränken und die Belastungen für die Tiere so gering wie möglich zu halten.


In diesem Sinne kommen bereits vielfältige Alternativen, Ersatz- und Ergänzungsmethoden zum Einsatz, etwa moderne Zellkulturmodelle, Organoide oder Computersimulationen. Sie helfen, die Zahl der Versuchstiere zu verringern, Tierversuche zu verfeinern und – wo möglich – Tierversuche ganz zu ersetzen.

In österreichischen Einrichtungen werden bereits wichtige Maßnahmen zur Verringerung der Tiere in Tierversuchen und zur Verbesserung der Bedingungen für die Tiere gesetzt. Das nationale 3R-Zentrum sowie die heuer unter dem Motto „Building Bridges - Bursting Bubbles“ stattfindenden „Austrian 3Rdays“ leisten dabei einen wertvollen Beitrag: Sie schaffen Raum für Bewusstseinsbildung, Vermittlung, Vernetzung und Innovation und sind damit ein maßgeblicher Impulsgeber für die breite Umsetzung und Weiterentwicklung von 3R-Methoden.

Ich danke allen Beteiligten herzlich für ihr großes Engagement und wünsche Ihnen gemäß dem Motto der Veranstaltung inspirierende „Austrian 3Rdays“ – mit vielen neuen Brücken zwischen Disziplinen und Ideen sowie frischen Impulsen jenseits der eigenen „Bubble“.

Mit besten Grüßen,

Eva-Maria Holzleitner, BSc  
Bundesministerin für Frauen, Wissenschaft und Forschung

 **Bundesministerium  
Frauen, Wissenschaft  
und Forschung**



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## WELCOME TO THE VETMEDUNI VIENNA

As Vice-Rector for Research at Vetmeduni, I warmly welcome you to the Austrian 3R Days 2026 on our campus, held under the guiding theme "Building bridges – Bursting bubbles."

The 3Rs - Replace, Reduce, Refine - are far more than a framework for us: they are a binding commitment. At Vetmeduni, we see it as our mission to consistently unite scientific excellence with ethical responsibility toward animals - and to actively advance that commitment.

We pursue a clear strategic orientation: the 3Rs, along with innovative approaches such as New Approach Methods (NAMs), are firmly embedded in our research agenda. Through our outstanding education and training, established standards for open data and biobanks, and the targeted promotion of pioneering technologies - from in silico models and organ-on-a-chip systems to high-resolution imaging - we are setting benchmarks in the field. At the same time, we are continuously advancing improvements in housing and training concepts, as well as robust ethical decision-making processes. All of this is underpinned by a lived Culture of Care that connects researchers, animal care teams, and students alike.

Our ambition is clear: we do not merely want to be part of the development; we aim to be a go-to hub for excellent, responsible research - a partner people turn to in order to actively shape the future of this field.

The Austrian 3R Days provide the ideal setting for this. They are both platform and catalyst: for open exchange on advances and challenges, and for forging new partnerships across disciplines and institutions. Because only together we will further reduce animal numbers in experiments, make studies more robust and reproducible, and bring innovations into practice more quickly.

I invite you to use our campus as an open, integrative space to share ideas, for dialogues, and fertile ground for new collaborations. Take away inspiration, build new connections - and help shape the next steps with us.

I wish you inspiring days, courageous conversations, and lasting outcomes.

Welcome to Vetmeduni.

Univ.-Prof.in Dr.in Martina Marchetti-Deschmann  
Vice Rector for Research, International Affairs and Sustainability  
University of Veterinary Medicine, Vienna



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Ladies and Gentlemen,  
Dear Colleagues,

It is my great pleasure to welcome you, on behalf of the Medical University of Graz, to this year's Austrian 3Rdays. This event is exemplary of the continuous progress in biomedical research and of our shared commitment to combining scientific excellence with ethical responsibility.

The 3R principles – "Replace, Reduce, Refine" – have long become an indispensable guiding framework for modern research. At this point, we can proudly say that this commitment has led to groundbreaking new approaches and innovative technologies, and is by no means merely a "new fashion" without sustainable outcomes. In fact, the 3Rs have become essential to strengthen awareness of the responsible use of resources and experimental systems. Especially in times of rapid scientific development, it is crucial to continuously advance these principles and to sustainably anchor them in biomedical basic research. In doing so, critical self-reflection must also remain at the forefront in order to ultimately stay competitive.

The Austrian 3Rdays 2026 provide a valuable platform for exchange between researchers, experts, and, above all, young scientists. The event enables participants to share current findings, raise important questions, identify limitations, and, most importantly, learn from one another. I would especially like to emphasize the importance of inter- and transdisciplinarity, which makes a decisive contribution to developing new and ground-breaking approaches.

I would like to thank all organizers and contributors for their commitment and wish you all inspiring discussions, new impulses, and a successful conference.

With kind regards,

Univ.-Prof. Dr.med.univ. Akos Heinemann  
Vice-Rector for Research  
Medical University of Graz

**DATE**

April 28 - 30, 2026

**CONGRESS VENUE**

University of Veterinary Medicine  
Veterinärplatz 1 | 1210 Vienna | Austria  
<https://www.vetmeduni.ac.at/>

**CONGRESS PRESIDIUM**

Mag.a Dr.in Birgit Reininger-Gutmann  
Biomedical Research (BMF), Head  
Medical University of Graz  
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Mag. Dr. Roberto Plasenzotti  
Director Animal Research / Animal Health Center and  
Secretary of The RepRefRed Society  
E-Mail: [roberto.plasenzotti@reprefered.eu](mailto:roberto.plasenzotti@reprefered.eu)

**WEBSITE**

[www.austrian-3rdays.com/en](http://www.austrian-3rdays.com/en)

**CONGRESS ORGANIZATION |  
SPONSORING****The RepRefRed Society / Austrian 3R Center**

Postfach 0014  
A-8036 Graz  
E-Mail: [office@reprefered.eu](mailto:office@reprefered.eu)

**Event Service RS GmbH**

Bahnhofstraße 49  
6112 Wattens – Austria  
Phone: +43 50 55 7 55 - 00  
E-Mail: [mail@austrian-3rdays.com](mailto:mail@austrian-3rdays.com)

**SCIENTIFIC COMMITTEE**

Michael Außerlechner  
Marion Bankstahl  
Cornelia Kasper  
Thierry Langer  
Jule Michler  
Winfried Neuhaus  
Nina Pilat  
Roberto Plasenzotti  
Birgit Reininger-Gutmann  
Beate Rinner  
Michael Schunn  
Adrian Smith  
Doris Wilflingseder  
Eckhard Wolf

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## REGISTRATION | OPENING HOURS

The registration counter is located in the foyer, right next to the main entrance.

Tuesday, April 28	7.30 a.m. – 6.00 p.m.
Wednesday, April 29	8.00 a.m. – 5.00 p.m.
Thursday, April 30	8.00 a.m. – 4.30 p.m.

## CONGRESS LANGUAGE

German and English  
No simultaneous translation

## INTERNET | WIRELESS LAN

**Network:** Veranstaltungen  
**User:** Vet-Event  
**Password:** GgvMT-1765

## MEDIA ACCEPTANCE | OPENING HOURS

You can submit your presentation online using a USB stick. Please submit your presentation as an open PowerPoint file (16:9, ppt or pptx) to the media desk on site at least 4 hours before the start of the respective session.

The file name should correspond to the title in the public program.

We are happy to receive your presentation in advance: please send your presentation via download link to the following e-mail address: [mail@austrian-3rdays.com](mailto:mail@austrian-3rdays.com)

Tuesday, April 28	8.00 a.m. – 5.00 p.m.
Wednesday, April 29	8.00 a.m. – 5.00 p.m.
Thursday, April 30	8.00 a.m. – 11.00 a.m.

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## SPONSORS



## SUPPORTER



## NAME BADGES

The name badge must be worn by all participants at all times during the congress. Access to the lecture rooms and the industry exhibition cannot be granted without a name badge.

## NOTE FOR SPEAKERS

Direct data projection from MS PowerPoint files (projector) is possible in all lecture rooms. The presentation must be handed in at the media desk (1<sup>st</sup> floor) at least four hours before the start of the respective lecture and uploaded to the central network.

Please note that data projection is only possible with PowerPoint presentations. Embedded videos are not automatically checked for their function. Please hand over your presentation on one of the following media: USB stick, hard disc. A preview monitor is available for the presenter. The presentations are fed directly through the technology. You cannot connect your own notebook in the plenary room.

Exception: Presenters who intend to use their own apple device have to make sure that they bring their own adapter to plug in to a standard HDMI-connector.

Media reception opening hours:

Tuesday, April 28	8.00 a.m. – 5.00 p.m.
Wednesday, April 29	8.00 a.m. – 5.00 p.m.
Thursday, April 30	8.00 a.m. – 11.00 a.m.

Acceptance of presentations 4 hours before the respective session!

## SCIENTIFIC TOPICS

### REPREFRED SOCIETY:

In line with the foundational principles of the RepRefRed Society, this congress addresses three core topics in the field of animal research:

### REPLACEMENT

Replacement refers to the use of alternative methods in place of animal experiments — such as cell cultures, organs-on-a-chip, or in-silico models. Computational approaches in particular are gaining importance, enabling the simulation and prediction of biological processes with increasing accuracy, thereby reducing the reliance on animal-based studies.

### REDUCTION

Reduction aims to minimise the number of animals used while maintaining scientific validity. This includes rigorous experimental design, robust statistical methodology, and the application of advanced imaging techniques — all of which help to maximise the information gained from each individual animal.

### REFINEMENT

Refinement encompasses all measures that reduce or eliminate pain, suffering, and distress in laboratory animals. This extends well beyond improved analgesia and modern housing systems to include careful experimental planning, structured habituation and training of animals prior to procedures, and a culture of continuous professional development for all staff and researchers involved in animal-based research.

### NAMS (NEW APPROACH METHODOLOGIES)

NAMs (New Approach Methodologies) are animal-free approaches that center on the intended target species – such as humans – thereby eliminating the need to extrapolate between species. Beyond the 3Rs Replacement concept, this expanded framework covers e.g. organoids, organ-on-chip, microfluidics, 3D bioprinting, bioinformatics, and AI, and is seeing increasing endorsement and implementation by regulators and institutions.

## STRUCTURE OF CONTENT

### SESSIONS

Invited speakers will deliver state-of-the-art lectures on selected topics. In addition, the scientific programme is complemented by short oral presentations selected by a review board from submitted abstracts.

### INDUSTRY SESSIONS

Industry-sponsored and self-organized symposia.

Following three different industry sponsored sessions are implemented within the scientific

1. Industry Workshop  
Full 40 minutes self-organized symposia – exclusive timeslot
2. Industry session  
Full 20 minutes self-organized symposia – exclusive timeslot
3. Industry Update  
8 minute quick talk within a scientific session

### POSTERSLAM AND POSTERWALK

Join our 1-minute Poster Slam: each presenter has just 60 seconds to spotlight their poster - sing it, rap it, act it, demo a mini-game, or deliver a punchy pitch - anything that grabs attention and lures the crowd to your board in the poster walk. Be bold, be memorable, and make the audience curious to learn more during the poster session.

### POSTER EXHIBITION & SESSION

Format: portrait format, size 84.1 cm x max. 118.9 cm, common: DIN A0

All posters will be displayed in the foyer of lecture halls A/B in the FA building, sorted by category and abstract number. Please identify the location of your poster on the poster plan, which will be displayed in the poster exhibition. Please make sure to attach the poster to the correct wall. The posters must be removed independently on Thursday, April 30 starting at 01.00 pm. Remaining posters will be disposed.

### POSTER EXHIBITION HOURS

Tuesday, April 28, from 1:15 p.m. to 7:00 p.m.

Wednesday, April 29, from 8:30 a.m. to 5:00 p.m.

Thursday, April 30, from 8:30 a.m. to 1:00 p.m.

	Plenary Room	Lecture Hall FA	Auditorium
09.00	Opening Austrian 3Rdays 2026		
10.00	Keynote		
11.00	Rethinking Animal Research: Quality, Welfare & the 3Rs		
12.00	NAMs & 3Rs in Infectiology	Poster Exhibition	Coffeebreak
13.00			
14.00			Lunch
15.00	NAMs & 3Rs in Oncology		
16.00			Coffeebreak
17.00	Spotlight on Refinement: Genetically modified animals - aspects of generation and use + panel discussion		
18.00			Welcome Reception: 10 Years RepRefRed Society
19.00			

**PLENARY** 09:00h - 09:45h

**Opening Austrian 3Rdays 2026** Plenary Room

Chair: Birgit REININGER-GUTMANN, Austria | Doris WILFLINGSIEDER, Austria

09:00 - 09:45 **Welcome speech**

*Eva-Maria HOLZLEITNER, Federal Minister for Women, Science and Research  
Martina MARCHETTI-DESCHMANN, Vice-Rector of the University of Veterinary Medicine  
Akos HEINEMANN, Vice-Rector for Research*

**PLENARY** 09:45h - 10:15h

**Keynote** Plenary Room

Chair: Winfried NEUHAUS, Austria | Adrian SMITH, Norway

09:45 - 10:15 **Evidence-based transition to animal-free innovations**

*Merel RITSKES-HOITINGA, Netherlands*

**SESSION | 1** 10:15h - 11:15h

**Rethinking Animal Research: Quality, Welfare & the 3Rs** Plenary Room

Chair: Birgit REININGER-GUTMANN, Austria | Katharina TILLMANN, Austria

10:15 - 10:35 **Practical advice on improving quality, safety and translatability in animal facilities**

*Adrian SMITH, Norway*

10:35 - 10:55 **A paradigm shift in interpreting the 3R principle**

*Herwig GRIMM, Austria*

10:55 - 11:15 **Do you C.A.R.E. for laboratory animals? A welfare label for the critical assessment of refinement in experiments**

*Katharina TILLMANN, Austria*

**COFFEEBREAK | 11:15h - 11:45h**

Auditorium & 1st floor

Sponsored by **MED<sup>EL</sup>**

**SESSION | 2** 11:45h - 13:15h**NAMs & 3Rs in Infectiology (The Ignaz Semmelweis Institute Session)** Plenary Room

Chair: Wilfried POSCH, Austria | Subhra Kumar BISWAS, Austria

- 11:45 - 12:10 **Beyond the animal model: The pig as a 3R platform for vaccine research**  
*Tobias KÄSER, Austria*
- 12:10 - 12:20 **The dawn of a new era: Advancing scientific validity in pre-clinical research with stem cell-based human models**  
*Magdalena ERLACHER, Austria*
- 12:20 - 12:30 **Different 3D approaches to culturing bovine skin: Explant culture vs. organotypic skin model**  
*Christina BAUMBACH, Austria*
- 12:30 - 12:40 **Finding the good in the bat – Characterization of virus-host interactions at bat respiratory barrier sites**  
*Babette FLETEMEYER, Austria*
- 12:40 - 12:50 **HUMOR: A human monocyte-derived dendritic cell-organoid model for SARS-CoV-2 infection**  
*Paul SCHWEIGHOFER, Austria*
- 12:50 - 12:58 **Industry Update: Capturing Host-Pathogen Interactions with Modern Cytometry**  
*Uwe RICHTER, Austria*
- 12:58 - 13:13 **Flow, fungi, and firewalls to respiratory challenges**  
*Doris WILFLINGSSEDER, Austria*

**LUNCH** 13:15h - 14:15h

Auditorium

**POSTER EXHIBITION** 13:15h - 19:30h

Lecture Hall FA

**SESSION | 3** 14:15h - 15:45h**NAMs & 3Rs in Oncology** Plenary Room

Chair: Gerda EGGER, Austria | Beate RINNER, Austria

- 14:15 - 14:40 **Advanced patient-derived tumor organoids to study the crosstalk of cells in the tumor microenvironment**  
*Gerda EGGER, Austria*
- 14:40 - 14:50 **Vascularized tissue microarrays: A genuine high-throughput approach to drug screening in advanced tumor microenvironment models**  
*Paulina MUSOLF, Poland*
- 14:50 - 15:00 **3D-bioprinted tumour-on-chip models that mimic the effects of drugs and tumour metastasis in vitro**  
*Michael AUSSERLECHNER, Austria*
- 15:00 - 15:10 **Modeling nuclear deformation and DNA damage using 2D and 3D cell cultures**  
*Maximilian JOBST, Austria*
- 15:10 - 15:20 **Human-relevant 3D ALI lung models for BALF biomarker discovery in NSCLC**  
*Sive MULLEN, Ireland*
- 15:20 - 15:45 **YOUCELL: Personalized tumor cell line models**  
*Beate RINNER, Austria*

**COFFEEBREAK | 15:45h - 16:15h**Sponsored by  ONCOMED SOLUTIONS

Auditorium &amp; 1st floor

**SESSION | 4** 16:15h - 17:15h**Spotlight on Refinement: Genetically modified animals - aspects of generation and use + panel discussion** Plenary Room

Chair: Roberto PLASENZOTTI, Austria | Michael SCHUNN, Austria

- 16:15 - 16:25 **Grundlage zur Belastungsbeurteilung genetisch veränderter Nagerlinien in österreichischen Einrichtungen zur Zucht und Haltung von Versuchstieren**  
*Daniela POLLAK, Austria*
- 16:25 - 17:05 **Panel discussion**  
*Michael SCHUNN, Austria*

**WELCOME RECEPTION: 10 YEARS REPREFRED SOCIETY** 17:15h - 19:30h

Auditorium

	Plenary Room	Lecture Hall FA	Auditorium	
08.00				
09.00	Spotlight on Replacement: Animal-Free & Green Lab Concepts for the Future	Poster Exhibition		
10.00			Coffeebreak	
11.00	Spotlight on Refinement: Analgesia & Anesthesia + panel discussion			
12.00	Tecniplast: Industry Workshop			
13.00			Lunch	
14.00	Stemcell: Industry Workshop			
	Poster Slam			
15.00			Poster Walk	Coffeebreak
16.00	Spotlight on 3Rs & NAMs: Innovative Models & Methods		Poster Exhibition	
17.00				
18.00				

**POSTER EXHIBITION** 08:30h - 14:30h

Lecture Hall FA

**SESSION | 5** 09:00h - 10:20h

**Spotlight on Replacement: Animal-Free & Green Lab Concepts for the Future** Plenary Room

Chair: Barbara PRATSCHER, Austria | Martin FRAUENLOB, Austria

09:00 - 09:10 **Advances in placental biomaterials for vascular scaffolds, drug delivery systems, and 3D bioprinting**  
*Karl SCHNEIDER, Austria*

09:10 - 09:20 **A novel 3D-printed mouse model for surgical training**  
*Nina TRIMMEL, Austria*

09:20 - 09:30 **Continuous monitoring of oxygen, pH, glucose and lactate in microphysiological systems with integrated optical sensors**  
*Torsten MAYR, Austria*

09:30 - 09:40 **R3ACT: A redox and antioxidant capacity tracker for animal-free drug screening in human keratinocytes**  
*Emrah EROGLU, Turkey*

09:40 - 09:50 **Sharing is caring: Replacing live animal models through systematic use of large-animal ex-vivo tissues**  
*Maja STRUNK, Germany*

09:50 - 10:00 **Advanced modeling of LCHADD/VLCADD with 3D-bioprinting and induced-pluripotent stem cell technology**  
*Antonia DEGEN, Austria*

10:00 - 10:10 **Advancing replacements: A bioreactor platform for in vitro hypertension modeling and drug screening**  
*Laura CALVILLO, Italy*

10:10 - 10:18 **Industry Update Organthis: From Replace to Reliable: OrganCore™ as a Standardized Ecosystem for Preclinical Organoid Testing**  
*Charlotte Ohonin, Austria*

**COFFEEBREAK** 10:20h -10:45h

Auditorium & 1st floor

**SESSION | 6** 10:45h - 11:30h**Spotlight on Refinement: Analgesia & Anesthesia + panel discussion** Plenary Room

Chair: Roberto PLASENZOTTI, Austria | Marion BANKSTAHL, Austria

- 10:45 - 10:50 **Analgesic drug treatment via drinking water: A watertight approach?**  
*Marion BANKSTAHL, Austria*
- 10:50 - 10:55 **Multimodal analgesia for post-operative pain in mice and rats: A systematic review in progress**  
*Amisha R. PARMAR, Austria*
- 10:55 - 11:00 **A novel time-continuous MRI method to quantify in-vivo brown adipose tissue thermal power: Refinement at a glance**  
*Clemens DIWOKY, Austria*
- 11:00 - 11:05 **Perception bias in assessing rodent welfare during euthanasia and anaesthesia**  
*Yigit BAYSAL, Austria*
- 11:05 - 11:10 **How do we manage pain in mice? A survey of analgesia in ongoing experiments**  
*Patrick BILIC, Austria*
- 11:10 - 11:30 **Panel Discussion**  
*Roberto PLASENZOTTI, Austria*

**INDUSTRY WORKSHOP** 11:30h - 12:10h**TECNIPLAST: In der Anwendung: Wie KI und digitale Assistenten im DVC® bereits in der Tierhaltung den tierexperimentellen Alltag erleichtern.** Plenary Room*Torben HAGER***LUNCH** 12:10h - 13:10h

Auditorium

**INDUSTRY SESSION** 13:10h - 13:30h**STEMCELL: Organoids and Advanced Tissue Models: Powerful In Vitro Assays for Drug Discovery** Plenary Room*Carla SANJURJO SORIANO***POSTER SLAM** 13:30h - 14:30h

Plenary Room

**POSTER WALK** 14:30h - 15:20h

Lecture Hall FA

**COFFEEBREAK | 14:30h - 15:20h**

Auditorium &amp; 1st floor

Sponsored by **scantox****POSTER EXHIBITION** 15:20h - 17:00h

Lecture Hall FA

**SESSION | 7** 15:20h - 16:50h**Spotlight on 3Rs & NAMs: Innovative Models & Methods** Plenary Room

Chair: Eva REIHS, Austria | Beate RINNER, Austria

- 15:20 - 15:28 **SMAiCOM - refining SMAll Animals studies with image COMputing**  
*Erika JENSEN-JAROLIM*
- 15:28 - 15:38 **I like to move it': Robotic microsystems for musculoskeletal disease modelling**  
*Eva REIHS, Austria*
- 15:38 - 15:48 **Lost in translation: Multi-species transcriptomics reveal molecular divergence in chondrocyte inflammation**  
*Florien JENNER, Austria*
- 15:48 - 15:58 **Advancing in vitro modeling of the intestinal barrier for celiac disease research**  
*Silvia SCHOBESBERGER, Austria*
- 15:58 - 16:08 **Validation of new approach methodologies in glioblastoma organoids using interstitial fluid profiling and cerebral open flow microperfusion (COFM)**  
*Thomas BIRNGRUBER, Austria*
- 16:08 - 16:18 **Development of an immunocompetent 3D bioprinted melanoma-on-chip model**  
*Alexeja KLEITER, Austria*
- 16:18 - 16:28 **Reproductive outcome and stress responses after surgical or non-surgical embryo transfer in mice – a refinement study**  
*Thomas KOLBE, Austria*
- 16:28 - 16:38 **Advancing Microphysiological Systems Adoption Through Targeted Education and Training Formats**  
*Pauline JECKEL, Germany*
- 16:38 - 16:48 **Industry Update MiLabs: Multimodal Preclinical Imaging in Practice: Applications in Translational Research**  
*Viktoriya SOKOLOVA, Netherlands*

**SOCIAL EVENING** 19:00h - 23:00h

3Rs on Bord – Linking Minds, Sharing Moments

MS Admiral Tegetthoff

	Plenary Room	Lecture Hall FA	Auditorium
08.00			
09.00	NAMs & 3Rs in Clinical Translation	Poster Exhibition	
10.00	Start Ups in 3Rs & NAMs		
11.00			Coffeebreak
12.00	3Rs & NAMs in Aquatic Models		
13.00			Lunch
14.00	Transparency & Communication		
15.00	AI & its Application in Research		
16.00	Closing Session		
17.00			
18.00			

**SESSION | 8** 08:30h - 10:00h

**NAMs & 3Rs in Clinical Translation** Plenary Room

Chair: Michael AUSSERLECHNER, Austria | Nina PILAT, Austria

08:30 - 08:55 **Deep profiling of monocytes/macrophages in human disease.**  
*Subhra Kumar BISWAS, Austria*

08:55 - 09:05 **Mechanoinflammatory modulation of gut-derived LPS responses in a human synovial biochip**  
*Eva REIHS, Austria*

09:05 - 09:15 **Development of a dynamic three-dimensional in-vitro equine tendon model**  
*Shrunkhala MAHADIK, Austria*

09:15 - 09:25 **Translational bioimaging: Functional barcoding of dynamic signaling processes and metabolism in 2D & 3D models**  
*Sandra BURGSTALLER, Austria*

09:25 - 09:50 **Human 3D airway models as diagnostic tools to assess respiratory protection**  
*Wilfried POSCH, Austria*

**POSTER EXHIBITION** 08:30h - 13:45h

Lecture Hall FA

**SESSION | 9** 10:00h - 10:30h

**Start Ups in 3Rs & NAMs** Plenary Room

Chair: Winfried NEUHAUS, Austria

10:00 - 10:05 **Vigilitech: The Power of Monitoring Vitals - Anesthesia, Temperature & Oxygen**  
*Marc ZÜND, Switzerland*

10:05 - 10:10 **iMouse – Advancing 3R Research Through Data-Driven Clinical Decisions**  
*Mirko LAMPE, Germany*

10:10 - 10:15 **CanChip: Human-Relevant Models for Better Decision-Making in Drug Development**  
*Ghazaleh MADANI, Germany*

10:15 - 10:20 **Organthis: OrganMatch™ as the Digital Intelligence Layer of OrganCore™ for Organoid Protocol Management**  
*Anindita BHATTACHARYA, Austria*

10:20 - 10:25 **TSN Scientific: Before Clinical Signs Appear: Continuous Body Temperature Monitoring for Early Detection of Compromised Welfare in Mice**  
*Thomas Svava NIELSEN, Denmark*

## COFFEEBREAK | 10:40h - 11:10h

Auditorium &amp; 1st floor

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## SESSION | 10

11:10h - 12:15h

## 3Rs &amp; NAMs in Aquatic Models

Chair: Matthias NOWAK, Austria | Daniela POLLAK, Austria

Plenary Room

- 11:10 - 11:35 **Keeping zebrafish in research facilities – Focus on enrichment as the basis for relevant and reliable research - *online lecture***  
*Lars BRÄUTIGAM, Sweden*
- 11:35 - 11:45 **Drug screening in zebrafish larvae**  
*Caterina STURTZEL, Austria*
- 11:45 - 11:55 **Needs-based feeding in different zebrafish facilities**  
*Verena MAYER, Austria*
- 11:55 - 12:05 **Advancing 3R standards for amphibian models in biomedical research**  
*Daniela POLLAK, Austria*
- 12:05 - 12:15 **Live-cell micronucleus testing in fish cells for genotoxicity assessment**  
*Magdalena KAINBERGER, Austria*

## LUNCH

12:15h - 13:15h

Auditorium &amp; 1st floor

## SESSION | 11

13:15h - 15:00h

## Transparency &amp; Communication

Chair: Roberto PLASENZOTTI, Austria | Herwig GRIMM, Austria

Plenary Room

- 13:15 - 13:40 **The importance of communicating the 3R's progress and realities**  
*Roman STILLING, Germany*
- 13:40 - 13:50 **Building bridges through communication in 3R research**  
*Burak BALI, Germany*
- 13:50 - 14:00 **From inconsistency to coherence: Introducing the compound model as a pragmatic solution for harm-benefit analysis**  
*Herwig GRIMM, Austria*
- 14:00 - 14:10 **Towards a transparency agreement for Austria – an interim report**  
*Auke BOERSMA, Austria*
- 14:10 - 14:35 **Openness in animal research: European experiences with transparency agreements**  
*Kirk Jordan LEECH, United Kingdom*
- 14:35 - 15:00 **An overview of international and European developments in the Three Rs and NAMs field**  
*Winfried NEUHAUS, Austria*

## SESSION | 12

15:00h - 16:05h

## AI &amp; its Application in Research

Chair: Thierry LANGER, Austria

Plenary Room

- 15:00 - 15:25 **Reconstructing brain tissue at synaptic resolution with light microscopy**  
*Johann DANZL, Austria*
- 15:25 - 15:33 **Industry Update Tecniplast: Wie KI im DVC® bereits in der Tierhaltung die 3R fördert, Brücken baut und aussagekräftige Wissenschaft ermöglicht.**  
*Torben HAGER, Germany*
- 15:33 - 16:03 **In silico Hazard Assessment - from QSAR to Deep Learning and AI**  
*Gerhard ECKER, Austria*

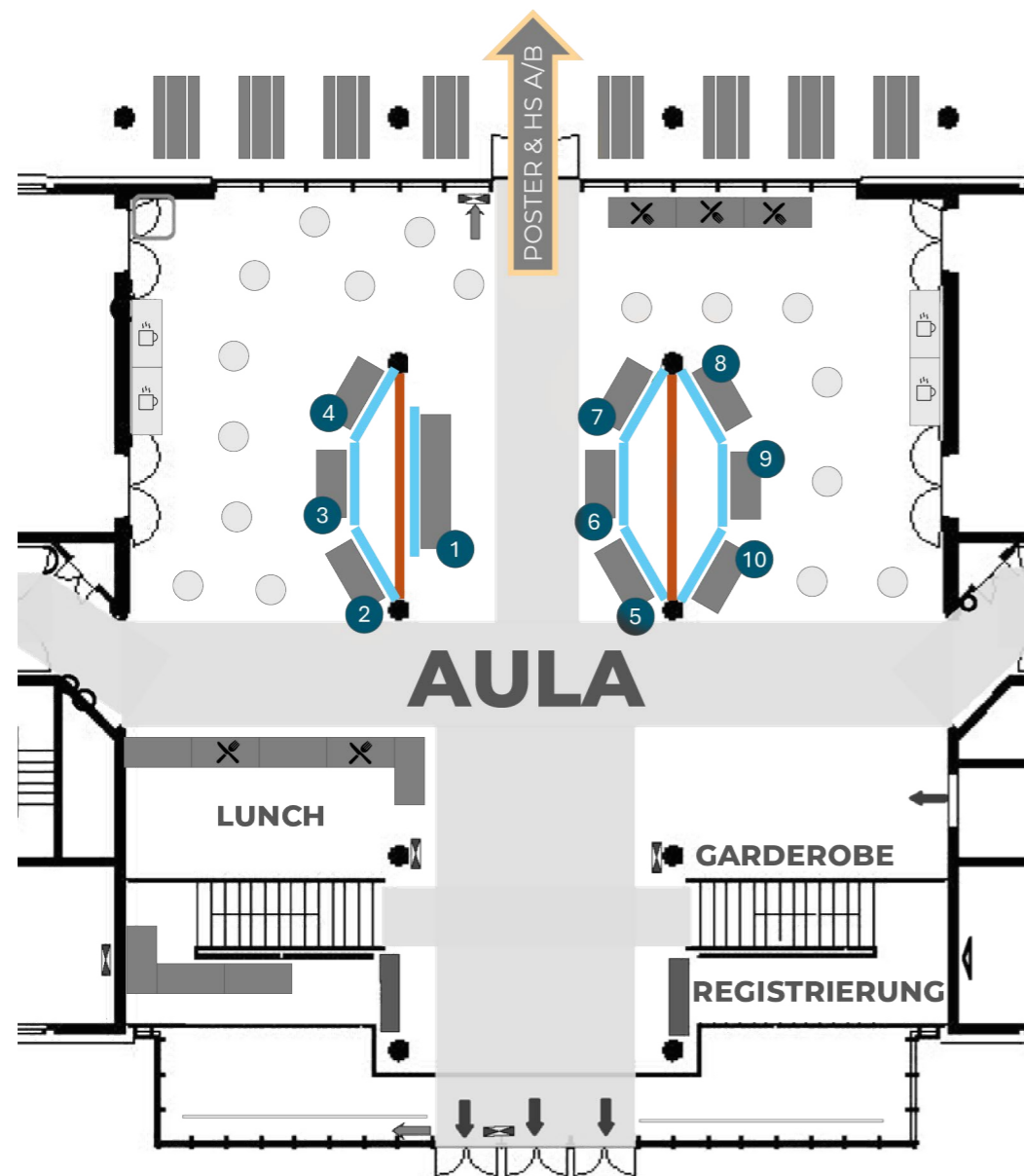
## PLENARY

16:05h - 16:15h

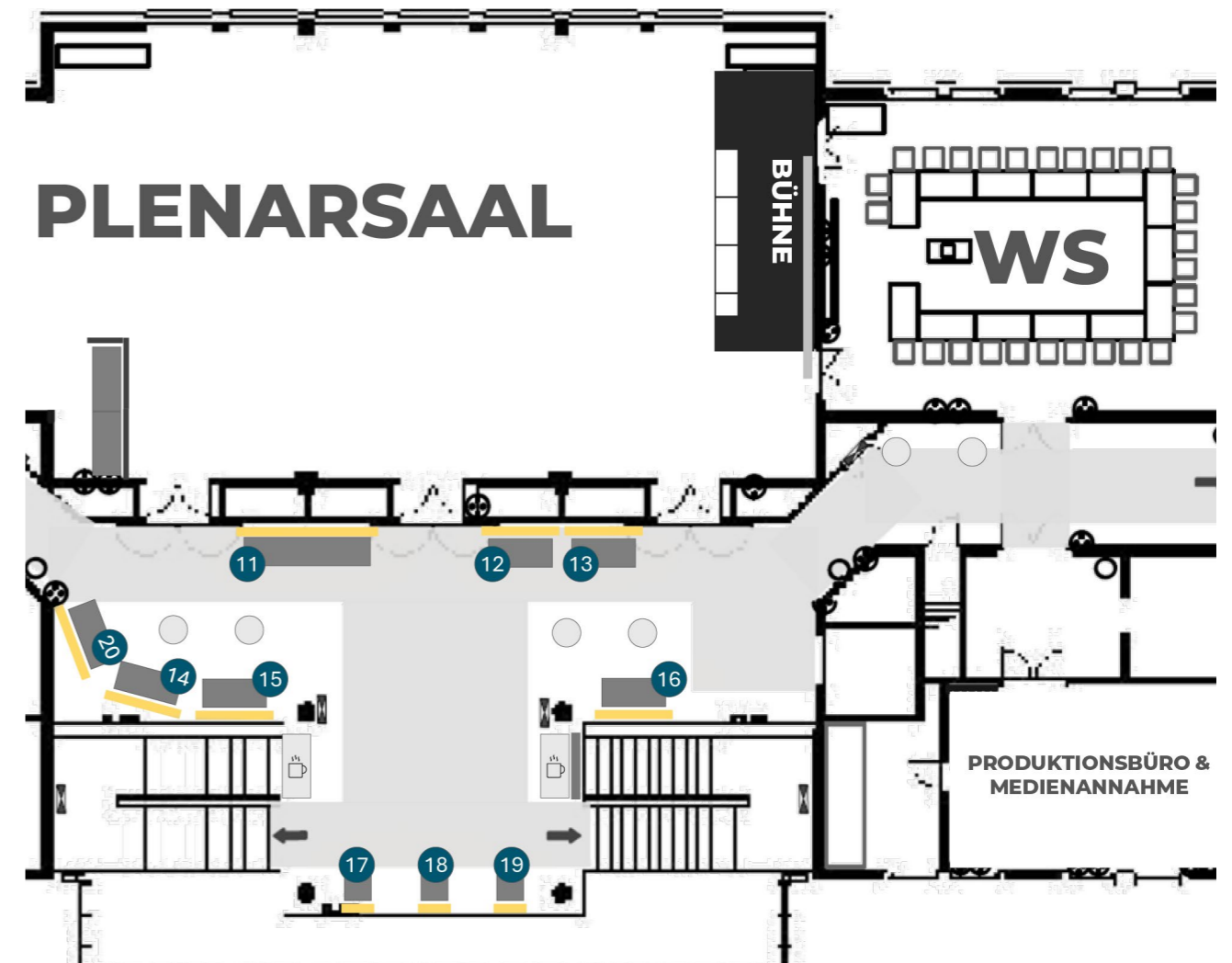
## Closing Session Austrian 3Rdays 2026

Chair: Birgit REININGER-GUTMANN, Austria | Doris WILFLINGSIEDER, Austria

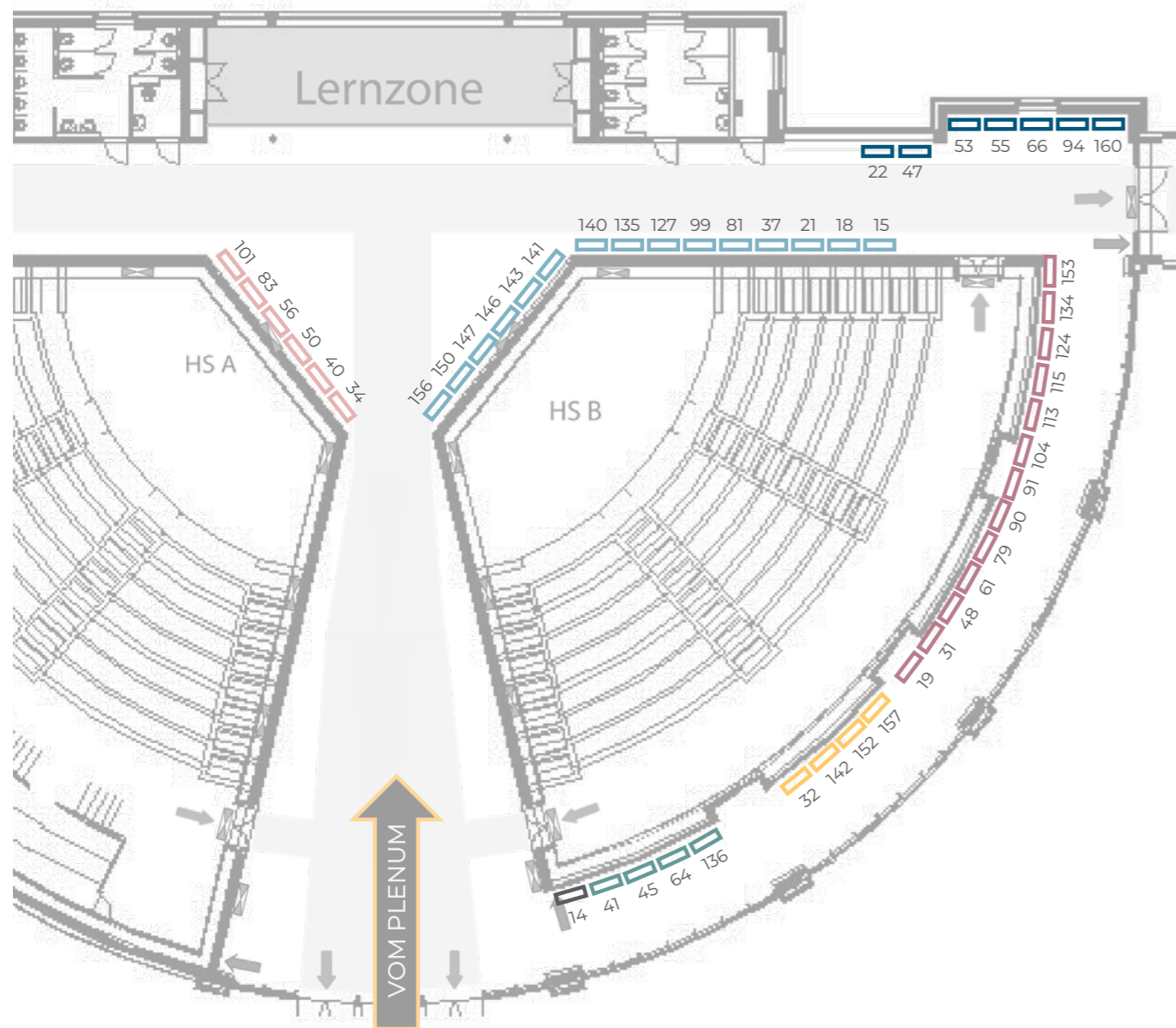
Plenary Room



INDUSTRY EXHIBITION	NO
Tecniplast	1
Scanbur	2
Charles River	3
IDEXX	4
AnLab	5
Vigilitech	6
Bartelt	7
Uno Life Science	8
ZoonLab	9
PLEXX	10



INDUSTRY EXHIBITION	NO
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Janvier Lab	13
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Instech	15
Future Lab Inn	16
Organthis	17
TSN Scientific	18
CanChip	19
Medical University Graz	20



COLOUR	CATEGORY FINAL
	NAMs & 3Rs in Clinical Translation   1 Poster
	NAMs & 3Rs in Infectiology (Sammelweis-Session)   7 Poster
	NAMs & 3Rs in Oncology   6 Poster
	Spotlight on Reduction in Preclinical Settings   4 Poster
	Spotlight on Refinement: 3Rs in Animal Facilities   15 Poster
	Spotlight on Replacement: Animal-Free & Green Lab Concepts for the Future   13 Poster
	Transparency & Communication   4 Poster



## Spitzenmedizin aus Wien

Die Medizinische Universität Wien (kurz: MedUni Wien) ist eine der traditionsreichsten medizinischen Ausbildungs- und Forschungseinrichtungen Europas. Mit mehr als 6.500 Mitarbeiter:innen und 8.600 Studierenden zählt sie zu den bedeutendsten Innovationstreibern und Spitzenforschungsinstitutionen im biomedizinischen Bereich.

Die MedUni Wien wurde gemeinsam mit dem Universitätsklinikum AKH Wien im aktuellen Ranking des US-Nachrichtenmagazins Newsweek auf Rang 20 der 250 besten Kliniken der Welt platziert. Diese herausragende Position im internationalen Vergleich spiegelt das Engagement und die Expertise der Mitarbeiter:innen der MedUni Wien wider, die gemeinsam Maßstäbe in der medizinischen Versorgung und Forschung setzen.

Aktuelle Stellenausschreibungen finden Sie unter [www.meduniwien.ac.at/offene-stellen](http://www.meduniwien.ac.at/offene-stellen)



Wenn auch Sie Teil dieser Erfolgsgeschichte werden möchten, dann gestalten Sie mit uns die „Zukunft der Medizin“ und bewerben Sie sich auf eine unserer offenen Stellen:

- Ärzt:innen (in Ausbildung) diverser Fachrichtungen
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- Biomedizinische Analytiker:innen oder chemisch-technische Assistent:innen
- Fachexpert:innen in der Verwaltung (z.B. Finanz, Personal, Kommunikation, Recht, IT)
- Allgemeine administrative Mitarbeiter:innen





### 3RS ON BORD – LINKING MINDS, SHARING MOMENTS

We have come up with something very special for our social evening on Wednesday, April 29th 2026 – an atmospheric evening cruise on the Danube with the MS Admiral Tegetthoff.

Planned schedule from/to Reichsbrücke

06.30 p.m. Boarding

07.00 p.m. Departure

10.00 p.m. Arrival

11.00 p.m. End

Food and drinks will be provided.

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**\*\*\*3R Days - Industry Update  
29.04.2026 15:20**

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