Swiss 3R Competence Centre

Swiss 3Rs Day

3Rs in Neuroscience

Aula, UZH Main Building
University of Zurich
24. June 2025

University of Zurich[UZH]

ETH zürich

zhaw

full programme here:

08:00 - 08:45 **Registration**

08:45 - 09:00 **Welcoming by Armand Mensen, 3RCC Deputy Executive Director**

Session 1

Advancing Replacement in Practice

Chaired by Markus Rimann, ZHAW

09:00 - 09:25 **In vivo insights from in vitro testings: Rethinking brain cancer drug screening**
Jens Kelm, PreComb

09:25 - 09:50 **Brain organoids derived from patients as a tool to evaluate efficacy of new treatments**
Sylvain Lengacher, Gliapharm

09:50 - 10:15 **Seizure liability testing using human iPS neurons**
Martin Traebert, Novartis

10:15 - 10:45 **Coffee Break & Poster and Exhibitor Viewing**

KEYNOTE Chaired by Markus Rimann, ZHAW

10:45 - 11:25 **Organoids reimagined: Engineering a path to translation**
Matthias Lütolf, Institute of Human Biology (IHB), Roche

Session 2

Reduction and Refinement in Basic Neuroscience

Chaired by Paulin Jirkof, UZH

11:25 - 11:50 **How's your mouse? Deep behavioural profiling in modern neuroscience**
Johannes Bohacek, ETH Zürich

11:50 - 12:15 **Refining intracerebral injection of neuroactive compounds through transcranial focused ultrasound-activated microbubbles (MB-FUS): Application to schizophrenia**
Anthony Laugeray, University of Lausanne

12:15 - 12:40 **Monkeying around with neuroscience: Revolutionizing research with 3R principles and positive reinforcement training**
Andrea Campa, University of Zurich

12:40 - 13:40 **Lunch Break & Exhibitor Viewing**

13:40 - 14:25 **Poster viewing – Presenters please be available at your poster**

KEYNOTE Chaired by Armand Mensen, Swiss 3RCC

14:25 - 15:05 **Testing for developmental neurotoxicity using NAMs: From research to regulation**
Ellen Fritsche, Swiss Centre for Applied Human Toxicology (SCAHT)

Poster Award

Chaired by Samia Bachmann, ETH

15:05 - 15:25 **Flash presentations of poster finalist and poster award voting**

Tandem Presentation

15:25 - 15:55 Chaired by Aude Rapet, Swiss 3RCC

Development of a dual-chambered microphysiological system to measure inflammatory pathologies using real-time and label-free bio-imaging AI techniques

João Pinheiro Marques; Scientific Collaborator Tissue Engineering group, HEPIA HES-SO, University of Applied Sciences and Arts Western Switzerland & Paul F Bradfield; CEO MesenFlow Technologies Sàrl

Awards Ceremony

Chaired by Jenny Sanström, Swiss 3RCC

15:55 - 16:05 **3Rs Award and Young 3Rs Invesigator Awards**

16:05 - 16:35 **Coffee Break & Poster and Exhibitor Viewing**

Session 3

Enabling the Implementation of 3Rs

Chaired by Elisa Passini, NC3Rs

16:35 - 17:00 **Advancing human iPSC and organoid models for 3R-compliant research**
David Pamies, University of Lausanne and Melanie Generali, University of Zürich

17:00 - 17:25 **How can law promote the adoption of organoids as NAMs?**
Alfred Früh, University of Basel

17:25 - 17:50 **New multi-modality approaches for scalable brain interrogation and stimulation**
Daniel Razansky, ETH Zurich

17:50 - 18:15 **How can systematic reviews support the 3R principles? A case study in bench-to-bedside translation**
Benjamin Ineichen, University of Zurich

18:15 - 18:20 **Closing remarks by Jenny Sandström, 3RCC Executive Director**

18:20-19:30 Apero