

3R Webinar

Replacement Strategies in Biomedical Research

18 March 2025

The keynote lecture "Possibilities and Limits of Organ-on-Chip Technology" explores the potential of Organ-on-Chip technology (OOC) to replace animal experimentation. OOCs can complement existing methods and reduce the reliance on animal models, supporting the 3R principles of replace, reduce, and refine.

The lecture will be complemented by two presentations on research projects at the University of Fribourg, some of which are supported by NRP79.



Speakers:

- **Dr. Thomas Sommermann,**
Dynamic42
- **Prof. Barbara Rothen-**
Rutishauser, AMI, Unifr
- **Prof. J. Dengjel, Dept of**
Biology, Unifr

Free of charge, upon registration via QR code

Registration until 15 March 2025

Program:

**11.00h – Welcome, introduction
11.10h**

Dr. Andrina Zbinden

Node coordinator Swiss 3RCC +
Animal Welfare Officer University of
Fribourg

**11.10h – Possibilities and limits of
12.40h organ on chip technology as a
replacement for animal
experimentation**

Dr. Thomas Sommermann

Dynamic42

**12.40h – Engineering reliable and
13.15h predictive 3D lung models as
alternative methods**

**Prof. Barbara Rothen-
Rutishauser**

AMI, University of Fribourg

**13.15h – Skin cancer research:
13.50h artificial cell model to reduce
animal experiments**

Prof. Jörn Dengjel

Dpt of Biology, University of Fribourg

**13.50h – Wrap-Up and Closing Words
14.00h**

Dr. Andrina Zbinden

University of Fribourg

**Accreditation as formation of 0.5 days for persons working with
research animals is currently under evaluation.**

Contact person: andrina.zbinden@unifr.ch