



The lack of replicability of scientific results obtained in pre-clinical animal trials has been well studied over the last two decades. It is a real problem with real consequences. How can one expect that pre-clinical results will translate into clinical therapies when there is a certain lack of validity in the underlying pre-clinical research to begin with?

Various contributing factors for the observed lack of reproducibility have been described, including publication bias, experimental design issues, insufficient rigor in the application of statistical methodology and unexpected negative effects of too much standardisation, just to name a few.

In spite of a fairly good understanding of the various problems contributing to reproducibility issues there exists much less evidence on strategies how to overcome these difficulties. This workshop should provide a platform for researchers, who are confronted with these questions in their day-to-day business. Five different talks will present ideas and recent developments, which could help to advance pre-clinical research.

The target audience includes all researchers, who are involved in planning and conducting pre-clinical animal trials. Both on Thursday and on Friday the sessions will conclude with panel discussion, which will allow participants of the workshop to articulate their own view and to discuss the possibility of actually implementing changes in their own research.

Coverphoto: Bruno Podesser



CENTER FOR BIOMEDICAL RESEARCH  
MEDICAL UNIVERSITY OF VIENNA

## Invitation

# How to increase reproducibility in animal trials? Dilemmas and strategies

9<sup>th</sup> – 10<sup>th</sup> June 2022

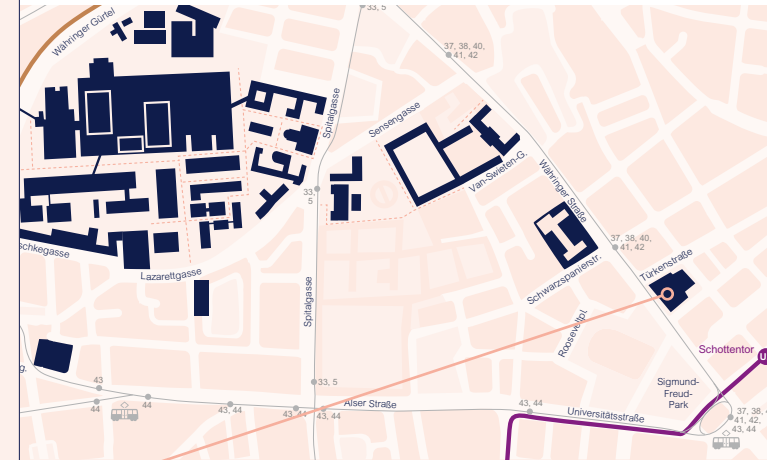
Emanuel Merck Auditorium  
Medical University of Vienna

[www.meduniwien.ac.at/ws-reproducibility](http://www.meduniwien.ac.at/ws-reproducibility)

Admission is free.

Space is limited therefore registration is required.

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Emanuel Merck Auditorium  
Währinger Straße 10, 1090 Wien

In cooperation with

Center for Medical Statistics,  
Informatics and Intelligent Systems  
Medical University of Vienna

Please be aware that photographs and/or video footage will be taken at the event. These may be used for the purpose of documenting or reporting the event and published in print and online media, on various social media platforms and on MedUni Vienna's website.

# How to increase reproducibility in animal trials? Dilemmas and strategies

## Programme

### Thursday, 9<sup>th</sup> June 2022

1:00 – 1:10 pm

#### **Opening**

Michaela Fritz, Vice Rector for Research and Innovation,  
Medical University of Vienna

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1:10 – 2:00 pm

#### **The problem of pre-planned replications in animal experiments**

Florian Frommlet, Center for Medical Statistics,  
Informatics and Intelligent Systems, Medical University  
of Vienna

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2:00 – 2:45 pm

#### **At the edge of standardisation – strategies to embrace variation and improve reproducibility in animal research**

Vanessa von Kortzfleisch, University of Münster,  
Germany

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2:45 – 3:10 pm

#### **Coffee Break**

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3:10 – 4:00 pm

#### **Implementing the paradigm shift to generalisable results – a story about batch**

Natasha Karp, Astra Zeneca, United Kingdom

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4:00 – 5:30 pm

#### **Panel Discussion**

### Friday, 10<sup>th</sup> June 2022

9:00 – 9:50 am

#### **Microbiome variability in animal research: Causes, consequences, solutions, and opportunities**

David Berry, University of Vienna

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9:50 – 10:40 am

#### **What can we learn from replications in translational biomedicine**

Ulf Toelch, Berlin Institute of Health (BIH),  
Charité, Germany

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10:40 – 11:00 am

#### **Coffee Break**

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11:00 am – 1:00 pm

#### **Panel Discussion**

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#### **Organiser**

Bruno Podesser, Center for Biomedical Research,  
Medical University of Vienna

Florian Frommlet, Center for Medical Statistics,  
Informatics and Intelligent Systems, Medical University  
of Vienna