



**AWO**  
ANIMAL  
WELFARE  
OFFICE

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Workshop

# VITAL SIGN MONITORING IN RODENTS

**Date:** January 29, 2026 ; 9:00 a.m. to 1:00 p.m.

**Location:** Biomedizinisches Centrum (GH9-N02.011)

**Target group:** in vivo researchers from all disciplines

**Cost\*:** free of charge upon prior registration



## Data Insights: Side Effects of Anaesthetics on Brain and Animal Physiology

Explore empirical data illustrating the systemic side effects of isoflurane, which can introduce significant variability in experimental data.

## The Critical Role of Monitoring in Preclinical Research

Discover how consistent and precise animal monitoring reduces anaesthesia-induced variability and improves data quality and reproducibility.

## Next-Generation Monitoring Technologies

Learn about innovative monitoring solutions that offer seamless integration, real-time data, and stress-free operation.

## Speakers

Dr. Marc Zünd (Vigilitech AG),

Dr. Gregor Pilz (Cell Biology) and Marlies Zarwel (Core Facility Animal Models)



Marc completed a PhD in electrical engineering within the field of brain research, during which he built his own two-photon microscopes, performed brain surgeries, and conducted in vivo imaging through chronic cranial windows. During his doctoral studies, Marc became dissatisfied with the available solutions for monitoring vital signs to control the depth of anaesthesia in experiments involving anaesthetised mice. In response, he developed the concept of MARTA, a system designed to enhance both the quality of his research and adherence to high standards in scientific rigour and animal welfare, in line with the 3Rs principles.



\*Certification for 3 hours of continuing education (in accordance with §3/§4 TierSchVersV) is available upon request. Please note that a processing fee of **€10.00** will be charged for non-BMC members.