



University of Stuttgart

3R-BioMedicUS Stuttgart Research Initiative

<https://www.verbund.uni-stuttgart.de/3r-biomedicus/>

## Lecture series



### *Ex vivo* versus *in vivo* biomedical systems

**24.10.23 Prof. Dr. Roland Kontermann** „Animal experiments: regulatory aspects, planning, limits and challenges“

**31.10.23 Prof. Dr. Ingrid Ehrlich** „Neuronal and organotypic slice culture systems in brain research: applications and limitations“

**07.11.23 Prof. Dr. Monilola Olayioye** „The power of organoids in biomedical research and personalized medicine: potential and limitations“

### *De novo* systems in biomedical research

**14.11.23 Prof. Dr. Giorgio Cattaneo** „Biologized cardiovascular models for *in vitro* research“

**21.11.23 Jun.-Prof. Dr. Michael Heymann** „*De novo* tissue engineering, bioprinting, plant-based ECM protein production“

### *In silico* – the power of modeling and simulation of human physiology

**28.11.23 Dr. Tian Qiu** „Cyber-physical organ models for surgical training and quantitative assessment“

**05.12.23 Prof. Dr. Oliver Röhrle** „Multi-scale and multi-physics models of the musculoskeletal system: in-silico investigation of movement, neuromuscular diseases and more“

**12.12.23 Prof. Dr. Tobias Siebert** „Organ models: Determination of realistic parameters, modeling, and validation“

### 3R principles and ethical issues

**16.01.24 Prof. Dr. Thomas Zoglauer** „Ethics in Biomedical Research “

**23.01.24 Dr. Sergio Wittlin** „Refinement of animal experiments: focus on malaria research“

**30.01.24 Dr. Norbert Alzmann** „Animal ethics with special emphasis on animal experimentation “

WINTER SEMESTER 2023

TUESDAYS, 4 – 5.30 PM

ALLMANDRING 31

CAMPUS VAIHINGEN

ROOM 0.106

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