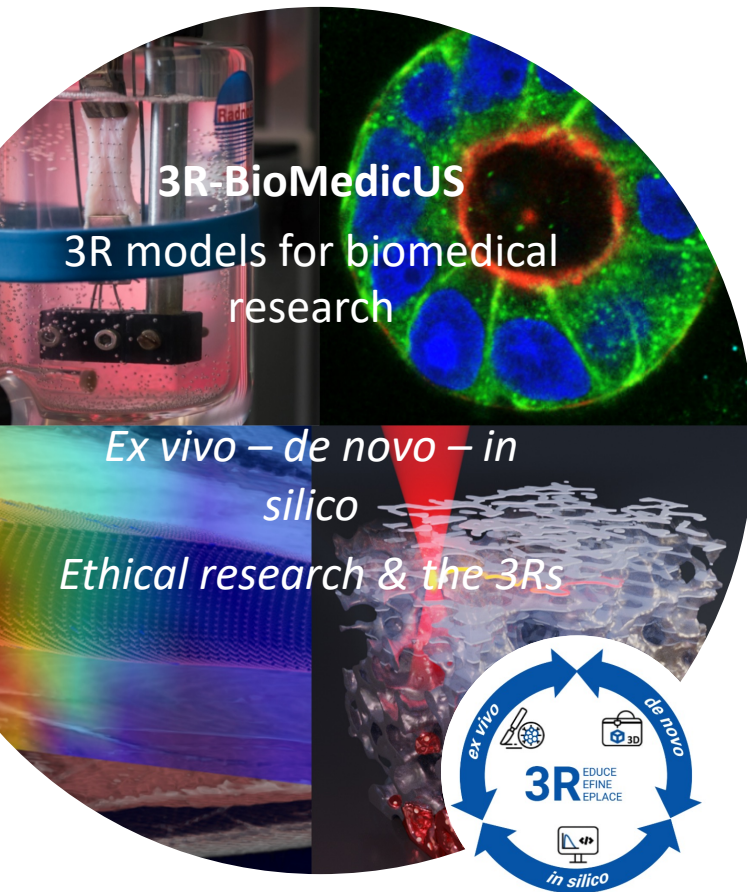


University of Stuttgart

3R-BioMedicUS Stuttgart Research Initiative

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



WINTER SEMESTER 2023

TUESDAYS, 4 – 5.30 PM

ALLMANDRING 31

CAMPUS VAIHINGEN

ROOM 0.106

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Research Initiative

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 “

