



„Replace“ and „Reduce“
based in Lower Saxony

Alternative methods to replace or reduce animal models
in biomedical research

The research unit R2N – funded by the Federal State
of Lower Saxony – encompasses 15 different research
groups within 5 institutions in Hannover and
Göttingen. They aim at developing scientifically-
sound alternative methods on all levels of biomedical
science to either minimize the quantity of animals
used, or to fully replace existing animal experiments.

R2N institutions:

Location:
Hannover Medical School
Carl-Neuberg-Str. 1
30625 Hannover

Building **J2**
Lecture room **B**

How to get there: www.mh-hannover.de/verkehrsanbindung.html

Application ATF
7 ATF points granted

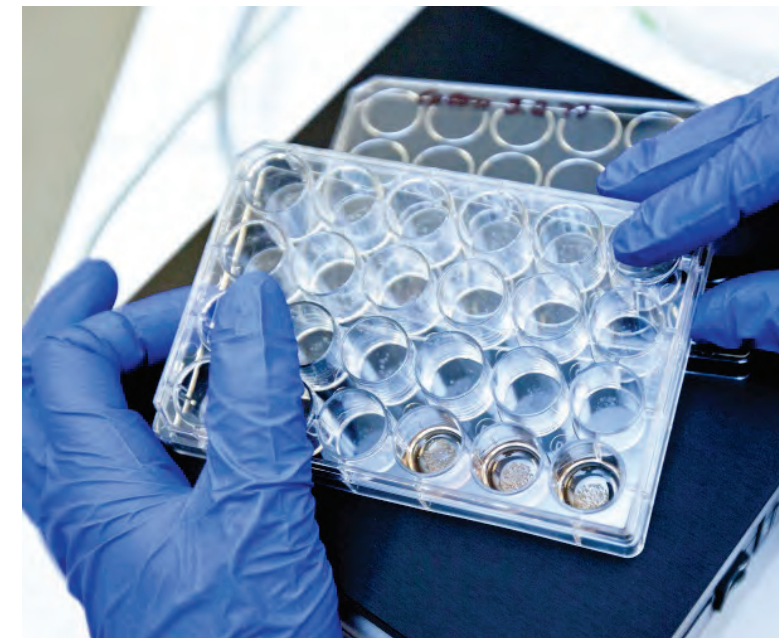
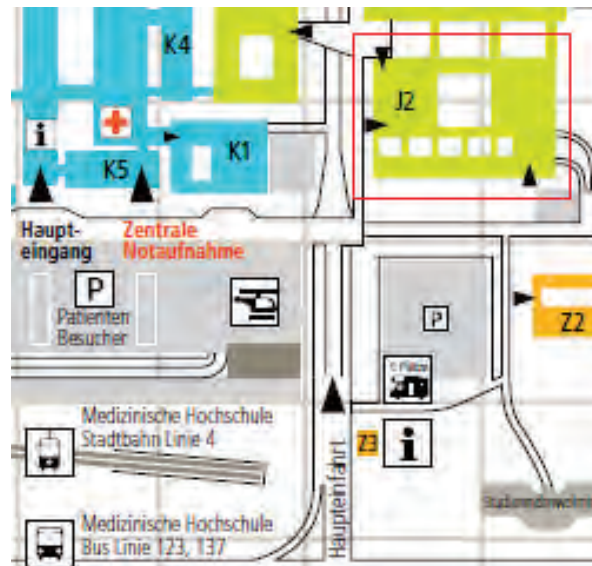
Registration until: October 15, 2018
www.r2n.eu/symposium2018

Organizing institute:
Institute for Laboratory Animal Science
and Central Animal Facility
Hannover Medical School
Phone: +49-511-532-6568
www.mh-hannover.de



SYMPOSIUM
November 6 + 7, 2018

Alternative methods to replace or reduce
animal models in biomedical research



Picture: Karin Kaiser/MHH

PROGRAM

Tuesday, November 6
(Chair: Nils Hoppe)

- 14:00-14:20 Welcome by:
Prof. Dr. med. Christopher Baum
President of Hannover Medical School
- Opening words:
Prof. André Bleich, PhD, Hannover
Director of the Institute for Laboratory
Animal Science and Central Animal Facility
- 14:20-15:10 **Prof. Dr. Dr. med. Thomas Hartung, USA**
21st century – Alternative methods for 21st
century safety sciences
- 15:10-15:45 **Dr. Sylvia Escher, Hannover**
Development of an animal free testing
strategy for risk assessment on inhalable
compounds – EXITOX II
- 15:45-16:05 Coffee break
- 16:05-16:40 **Isabel Rüttschle, M. Sc., Berlin**
Biology-inspired microphysiological systems
(organs-on-a-chip) – status quo and future
perspectives
- 16:40-17:15 **PD Dr. Alexander Mosig, Jena**
Emulating the Gut-Liver Axis – Organ-on-
chip as Translational Tool in Sepsis Research
- 17:15-17:45 **Poster flash – R2N PhD students**
R2N project related talks
- 18:00-18:30 **Poster walk – R2N PhD students**
R2N project related posters
- 18:30 **Get together**

Wednesday, November 7
(Chair: André Bleich)

- 09:00-09:35 **Dr. Udo Kraushaar, Tübingen**
Transforming (stem) cell models from
academic research to pharma – about assay
development and validation
- 09:35-10:10 **Prof. Dr. Stefan Dübel, Braunschweig**
Ready for prime time: Phage display as
complete replacement for animal use in
antibody generation
- 10:10-10:45 **Prof. Dr. Veronika v. Messling, Langen**
Animal Experiments in Licensing and Batch
Testing of Medicinal Products: 3R
Possibilities and Perspectives
- 10:45-11:15 Coffee break
- 11:15-11:50 **Dr. Michael Oelgeschläger, Berlin**
Validation and regulatory acceptance of
alternative test methods
- 11:50-12:35 **Dr. Barbara Birk, Ludwigshafen**
How can Alternatives to Animal Testing
bring benefit to Chemical Industry?
- 12:35-12:50 Closing remarks & Winner of R2N PhD
students travel award:
Prof. André Bleich, PhD, Hannover
Director of the Institute for Laboratory
Animal Science and Central Animal Facility

Speakers

- Dr. Barbara **Birk** – BASF SE, Ludwigshafen
Dept.: Experimental Toxicology and Ecology – Cellular Toxicology 1
– Alternatives to Animal Testing
- Prof. Dr. Stefan **Dübel** – Technische Universität Braunschweig
Dept.: Biotechnology
- Dr. Sylvia **Escher** – Fraunhofer ITEM, Hannover
Dept.: Chemical Assessment – Databases and Information Systems
- Prof. Dr. Dr. med. Thomas **Hartung** – John Hopkins University,
Bloomberg School of Public Health, Maryland/USA
Dept.: Environmental Health and Engineering; Molecular Microbiology
and Immunology; Center for Alternatives to Animal Testing (CAAT)
- Dr. Udo **Kraushaar** – Natural and Medical Sciences Institute
(NMI) at the University of Tübingen
Dept.: Electrophysiology
- PD Dr. Alexander **Mosig** – University Hospital Jena
Dept.: Integrated Research and Treatment Center, Center for Sepsis
Control and Care
- Dr. Michael **Oelgeschläger** – German Federal Institute for
Risk Assessment (BfR), Berlin
Dept.: Experimental Toxicology and ZEBET
- Isabel **Rüttschle**, M.Sc. – TissUse GmbH, Berlin
Dept.: Tissue analytics and cell banking
- Prof. Dr. Veronika **von Messling** – Paul-Ehrlich-Institut,
Federal Institute of Vaccines and Biomedicines, Langen
Dept.: Veterinary Medicine