

Program for the 3rd Symposium of the Virtual Center for Replacement/Complementary Methods to Animal Testing of the University of Veterinary Medicine Hannover

Thursday 28th of March 2019

12:00	Registration		
13:00	Opening of the Symposium		
Lung			
13:15	Dr. Katherina Sewald	Fraunhofer ITEM, Hannover	Integrating lung tissue and cells into respiratory research and development
13:45	Ang Su	Institute of Virology, TiHo	Characterization of the Infection of differentiated Airway Epithelial Cells by Bovine viral diarrhea (BVD) Virus
14:00	Nancy Ruger	Clinic for Poultry, TiHo	Host-pathogen-interaction of <i>Mycoplasma gallisepticum</i> at the respiratory tract of chickens – use of the tracheal organ culture as a model
Skin			
14:15	Helena Kandarova, Ph.D.	SETOX, Bratislava, Slovakia	Reconstructed tissue models for <i>in vitro</i> toxicity testing of chemicals, cosmetics and medical devices
Infection			
14:45	Nicole de Buhr, Ph.D.	Department of Physiological Chemistry and RIZ, TiHo	Analysis of transmigrating neutrophils in a <i>Streptococcus suis</i> -infected human and porcine blood-cerebrospinal fluid barrier model
15:00	Alexander Martens	Department of Physiological Chemistry and RIZ, TiHo	From animal experiment to cell culture: Adaption of <i>in vivo</i> relevant oxygen conditions to a meningitis cell culture model
15:15	Coffee break		
Current developments in the field of alternatives/complementary methods to animal experiments			
15:45	Dr. Marie Weinhart	Institute of Chemistry and Biochemistry, Freie Universitat Berlin	Thermoresponsive Tissue Culture Substrates as a Tool for the Engineering of Human Tissue Models
16:00	Saskia Wuttke	Leibniz Research Institute for Environmental Medicine, Dusseldorf	Developmental toxicity testing in hiPSC derived cardiomyocytes
16:15	Kai Endri	Clinic for Cattle, TiHo	Influence of the bovine pregnancy signal interferon tau (IFN τ) on maternal liver studied in a primary hepatocyte model
16:30	Prof. Bernd Lepenies	Immunology Unit and RIZ, TiHo	From “ <i>in vivo</i> ” toward “on chip”: Pre-screening of glycan-based adjuvants / immune modulators using a glycan- and lectin array-based platform
Neuro Part I			
16:45	Maren Luck	Institute for Food Toxicology, TiHo	Creating the perfect target cell: Differentiation of motor neurons for <i>in vitro</i> potency testing of Botulinum neurotoxins
17:00	Dr. Ines Lauria	Leibniz Research Institute for Environmental Medicine, Dusseldorf	Alginate-laminin as suitable scaffold biomaterial for 3D neuronal networks based on human induced pluripotent stem cell derived neurospheres
17:15	Poster-Session		
18:30	Dinner and Get-together		

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Neuro Part II			
09:00	Prof. Ellen Fritsche	Leibniz Research Institute for Environmental Medicine, Düsseldorf	Developmental neurotoxicity <i>in vitro</i> evaluation: on the road to regulatory application
09:30	PD Winfried Neuhaus	Austrian Institute of Technology, Wien, Austria	Blood-brain barrier <i>in vitro</i> models: Challenges and novel developments
10:00	Laura Nimtz	Leibniz Research Institute for Environmental Medicine, Düsseldorf	Development of electrically active neuronal networks derived from neurally induced human induced pluripotent stem cells (hiPSC) as an alternative method to study neurotoxicity <i>in vitro</i>
10:15	Jördis Klose	Leibniz Research Institute for Environmental Medicine, Düsseldorf	Studying neurodevelopmental toxicity of alternative flame retardants with 3D human primary neural progenitor cells <i>in vitro</i>
10:30	Gregor A. Bergmann	Institute for Physiology and Cell Biology, TiHo	An intact insect embryo for developmental neurotoxicity testing of directed axonal elongation
10:45	Birthe Gericke, Ph.D.	Department of Pharmacology, Toxicology and Pharmacy, TiHo	Discovery of a novel mechanism of multidrug resistance by interaction of endothelial and blood cells in a human and primary porcine blood-brain barrier model
11:00	Coffee break		
Gastrointestinal tract/liver			
11:30	Prof. Jan Hengstler	IfADo - Leibniz Research Centre for Working Environment and Human Factors, Dortmund	<i>In vitro/in silico</i> prediction of hepatotoxicity and comparison to the <i>in vivo</i> situation
Future of alternative/complementary methods to animal experiments			
12:00	Panel discussion with all Keynote speakers		
13:30	Concluding remarks		
13.45 Uhr	Lunch and Get-together		