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| 10-Feb| 12:00 - 12:45 AM | Preclinical Research | Experimental design strategies in primate trials that embrace the clinical schema to enhance translation                                                                                                             | Melanie L. Graham, MPH, PhD  
Robert and Katherine Goodale Chair in Minimally Invasive Surgery, Associate Professor, Department of Surgery, Medical School, Associate Professor, Department of Veterinary Population Medicine                                                                 |
| 10-Feb| 12:00 - 12:45 AM | Preclinical Research | Experimental design strategies in primate trials that embrace the clinical schema to enhance translation (copy)                                                                                                      | Melanie L. Graham, MPH, PhD  
Robert and Katherine Goodale Chair in Minimally Invasive Surgery, Associate Professor, Department of Surgery, Medical School, Associate Professor, Department of Veterinary Population Medicine                                                                 |
| 10-Feb| 12:00 - 12:45 AM | Preclinical Research | How to improve rodent aseptic surgery at your facility using household products: Press N’ Seal and Reynolds Wrap Foil                                                                                          | Raphael A. Malbrue, DVM, MS, CertAqV  
Clinical Veterinarian, Assistant Professor- Adjunct, The Ohio State University College of Veterinary Medicine, The Abigail Wexner Research Institute at Nationwide Children’s Hospital                                                                 |
| 10-Feb| 12:00 - 12:45 AM | MICROPHYSIOLOGICAL SYSTEMS (MPS) | Human In Vitro Vascularized Tissue Models                                                                                                                                  | James (Jay) Hoying, PhD  
Chief Scientist, Advanced Solutions Life Sciences                                                                                                                                                     |
| 10-Feb| 12:00 - 12:45 AM | Microphysiological Systems (MPS) | Implementing iPSC-derived 3D neurospheroids for fast-tracking novel target and hit identification in a human-first drug discovery paradigm                                                   | Cassiano Carromeu, PhD  
Director, Research and Development at StemoniX                                                                                                                                                           |
| 10-Feb| 12:00 - 12:45 AM | MICROPHYSIOLOGICAL SYSTEMS (MPS) | Introducing 3R in drug development and toxicology: recent breakthroughs and perspectives from the lung-on-chip technology                                                      | Nuria Roldan, PhD  
Scientific Lead and Project Manager, AlveoliX                                                                                                                                                            |
| 10-Feb| 12:00 - 12:45 AM | MICROPHYSIOLOGICAL SYSTEMS (MPS) | Microengineered Biomimicry of Human Physiological Systems                                                                                                                 | Dan Dongeun Huh  
Associate Research Fellow, Drug Safety Research and Development, Pfizer, Inc.                                                                                                                                                                     |
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| 10-Feb | 12:00 - 12:45 AM | Microphysiological Systems (MPS) | Microphysiological systems: Probing Neurological Disease          | Roger D. Kamm  
Cecil and Ida Green Distinguished Professor of Biological and Mechanical Engineering, Massachusetts Institute of Technology |
| 10-Feb | 12:00 - 12:45 AM | Preclinical Research            | Non-aversive handling methods for mice: Scientific evidence and challenges for implementation | Jane L. Hurst, PhD, OBE  
Institute of Infection, Veterinary and Ecological Sciences, University of Liverpool, UK |
| 10-Feb | 12:00 - 12:45 AM | MICROPHYSIOLOGICAL SYSTEMS (MPS) | Organoids & Toxins - from snakebite to DNA-damaging bacteria        | Jens Puschhof  
PhD candidate in Hans Clevers's group at the Hubrecht Institute, NL |
| 10-Feb | 12:00 - 12:45 AM | MICROPHYSIOLOGICAL SYSTEMS (MPS) | Patient-Derived Organoids for Drug Development and Patient Stratification | Robert Vries, CEO  
Hubrecht Organoid Technology (HUB) |
| 10-Feb | 12:00 - 12:45 AM | Microphysiological Systems (MPS) | Pharma collaboration to advance Microphysiological Systems           | Szczezan Baran, VMD, MS  
Head of Emerging Technologies, LAS, Novartis |
| 10-Feb | 12:00 - 12:45 AM | Preclinical Research            | Refining Pain Management for Laboratory Mice                        | Paulin Jirkof, PhD  
3R Coordinator, The Department for Animal Welfare, and 3Rs of the University of Zurich |
| 10-Feb | 12:00 - 12:45 AM | Preclinical Research            | The Experimental Design Assistant: an interactive web-based tool to provide bespoke feedback on experimental plans for in vivo studies | Dr. Esther Pearl  
Programme Manager - Experimental Design, NC3Rs |
| 10-Feb | 07:30 - 08:30 AM | Preclinical Research            | Panel Presentation: Laboratory Animal Welfare Training Exchange: Laboratory Animal Science Virtual Training Tools | Kiirska Pokryfke, M.S., C.M.A.R. Managing Director Training Core University of Michigan  
Jessica Stukes  
B.S. Education and Training Manager, Duke University |
| 10-Feb | 09:00 - 10:00 AM | Preclinical Research            | Keynote Presentation: The Use and Abuse of the 3Rs: Reflections on Art, Ethics and Science | F. Claire Hankenson, DVM, MS, DACLAM  
Director and Attending Veterinarian, Campus Animal Resources, Professor, Pathobiology and Diagnostic Investigation, CVM, Michigan State University |