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| 7-Feb     | 6:00- | Refinement                   | Social Housing of Laboratory Rabbits                                                | Sarah Thurston, BS, LAT  
Social Housing Coordinator, University of Michigan                                                                                     |
| 7-Feb     | 6:00- | Modernization of Animal     | Welfare First                                                                       | Tim McGuire  
Life Sciences Director, Agenda Life Sciences                                                                                           |
| 7-Feb     | 7:30- | Refinement                   | Keynote Presentation: Male management - Recent Literature on How to Reduce Aggression in Male Mice | Brianna Gaskill, PhD  
Assistant Professor of Animal Welfare, Comparative Pathobiology, Purdue University College of Veterinary Medicine     |
| 7-Feb     | 9:00- | Refinement                   | Animal Models for Tuberculosis Research                                              | Yong Cheng, PhD  
Research Assistant Professor, Department of Biological Sciences, University of Notre Dame                                                    |
| 7-Feb     | 9:00- | Modernization of Animal     | Interpretation of Hematology Veterinary Scattergrams in Normal and Pathologic Conditions | Kay A. Criswell, PhD, DABT, SBB, MT (ASCP)  
Founder and Owner; Independent Consultant, Westbrook Biomarker and Pharma Consulting, LLC                                                |
| 7-Feb     | 10:30-| Refinement                   | Evaluation of Analgesia Efficacy in Postoperative Mice Using Novel Cage-Side Measures | Jennifer Lofgren, DVM, MS, DACLAM  
Associate Attending Veterinarian for Performance Standards and Enrichment, University of Michigan Medical School                      |
| 7-Feb     | 12:00-| Balancing Risk and Opportunities of Outsourcing Animal Research | Compassion Fatigue: Education and Engagement in Animal Research                     | Marian Esvelt, DVM  
Veterinary Resident, University of Michigan                                                                                               |
| 7-Feb     | 12:00-| Refinement                   | Refinement of a Model of Repeated Cerebrospinal Fluid Collection in Conscious Rats     | Eva Maria Amen, DVM  
Clinical Veterinarian, Comparative Medicine, Basel, Roche Pharma Research and Early Development, Roche Innovation Center Basel   |
| 7-Feb     | 1:30- | Refinement                   | Assessment of the Aerodigestive System in Rodents                                   | Megan Haney, DVM  
Laboratory Animal Resident/Postdoctoral Fellow, University of Missouri                                                                     |
| 8-Feb     | 6:00- | Refinement                   | Comparison of the Impact of Phlebotomy Method on Physiologic and Behavioral Metrics of Pain and Distress in Mice | Elizabeth Moore, DVM  
Ph.D. Candidate, Weiss Laboratory, Cornell University College of Veterinary Medicine                                                   |
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| 8-Feb| 7:30-8:30 AM | Modernization of Animal Studies | Modernization of Animal Studies                                      | Natalie Bratcher  
3Rs Scientific Liaison & Animal Welfare Specialist, Abbvie  
Sean Maguire, VMD, MS, DACLAM  
GSK Associate Fellow, Comparative & Translational Sciences Veterinarian, GlaxoSmithKline  
Laura Schaevitz, PhD  
Chief Scientific Officer, Vium |
| 8-Feb| 9:00-10:00 AM | Refinement | Evaluation of the Neutrophil: Lymphocyte Ratio as an Indicator of Chronic Distress in the Laboratory Rodent | Debra Hickman, DVM, MS, DACLAM, DACAW  
Director, Laboratory Animal Resource Center, Indiana University |
| 8-Feb| 9:00-10:00 AM | Modernization of Animal Studies | The Digitalization of the Vivarium: Past and Present Initiatives that Optimize Animal Care and Welfare | John J. Hasenau DVM, DACLAM  
Principal, Lab Animal Consultants |
| 8-Feb| 10:30-11:30 AM | Refinement | Pros and Cons of Analgesic Use During Inhalational Anesthesia | Ignacio Alvarez Gomez de Segura, DipECLAM, DipECVAA  
Professor, Anesthesiologist, University Complutense, Spain |
| 8-Feb| 12:00-1:00 PM | Modernization of Animal Studies | Data Collection as Environmental Enrichment: Automated Behavioral Measurement in Voluntary Home Cage Operant Tasks | Jamie Ahloy Dallaire, Msc, PhD  
Postdoctoral Researcher, Department of Comparative Medicine, Stanford University |
| 8-Feb| 1:30-2:30 PM | Modernization of Animal Studies | Applications of Preclinical Translational Imaging Technologies for Improved Modeling and Decision Making | Paul Makidon, DVM, PhD, DACLAM  
Senior Principle Research Scientist, AbbVie |
| 8-Feb| 1:30-2:30 PM | Refinement | Engaging Through Enrichment: How the Animal Enrichment Committee Works to Combat Compassion Fatigue | Jennifer Jones, BS, RLAT  
Animal Enrichment Coordinator, Lead Animal Technician, University of Michigan Medical School |