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<th>Date</th>
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| 14-May | 12:00 - 12:05 AM | | Animal Models for Tuberculosis Research | Yong Cheng, PhD  
Research Assistant Professor, Department of Biological Sciences, University of Notre Dame |
| 14-May | 12:00 - 12:05 AM | | Automatic Detection and Classification of Behaviour in Laboratory Animals | Patrick Sweeney, PhD  
Founder & Chief Operating Officer, Naason Science, Inc. |
| 14-May | 12:00 - 12:05 AM | | 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 |
| 14-May | 12:00 - 12:05 AM | | Compassion Fatigue: Education and Engagement in Animal Research | Marian Esvelt, DVM  
Veterinary Resident, University of Michigan |
| 14-May | 12:00 - 12:05 AM | | 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 |
| 14-May | 12:00 - 12:05 AM | | 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 |
| 14-May | 12:00 - 12:05 AM | | The Digitalization of the Vivarium: Past and Present Initiatives that Optimize Animal Care and Welfare | John J. Hasenau DVM, DACLAM  
Principal, Lab Animal Consultants |
| 14-May | 12:00 - 12:05 AM | | Tissue Chips: Building Confidence Through Independent Experimental Testing | Ivan Rusyn, PhD  
Professor, College of Veterinary Medicine & Biomedical Sciences, Texas A&M University |
| 14-May | 06:00 - 07:00 AM | | Embracing biological variation to improve reproducibility and reduce animal use | Hanno Würbel  
Division of Animal Welfare |
| 14-May | 07:30 - 08:30 AM | | Sex bias in preclinical research, why it exists and how to drive change | Natasha Karp, PhD  
Principal Data Scientist, AstraZeneca |
| 14-May | 09:00 - 11:00 AM | | PANEL: Experimental design and the reproducibility crisis: pitfalls, power, and practical best practice | Joseph Garner, PhD  
Associate Professor of Comparative Medicine and, By Courtesy, of Psychiatry and Behavioral Sciences, Stanford University Medical Center  
Brianna Gaskill, PhD  
Associate Professor of Animal Welfare, Animal Sciences, Purdue University, College of Agriculture |
| 14-May 11:00 - 12:00 PM | Transparent, reliable and reproducible animal research: the ARRIVE guidelines 2.0 | Nathalie Percie du Sert, PhD  
Head of Experimental Design and Reporting, NC3Rs |