## rd international

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April 9 - 11, 2024

Tecniplast Congress Centre Buguggiate (VA) - Italy



## AGENDA



## TUESDAY, APRIL 9TH

#### MORNING

Pick up from the Hotel and transfer to the Tecniplast Congress Centre	7:45AN
Welcome & Opening - Pietro Bernardini, Tecniplast Managing Director	8:30 AM
KEYNOTE SPEECH	
Vivarium of the future - the role of technologies in animal welfare, facility management and b (reproducible) science	etter 8:45 AN
Alon Harmelin - President's consultant, Weizmann Institute of Science, Israel	
MODERATOR	
Jan-Bas Prins - Professor of Laboratory Animal Science, Leiden University Medical Centre, The Netherlands	
Improving Animal Welfare and Operational Efficiency using Digital Ventilated Cages (DVC®)  Jeetendra Eswaraka - Vice-President University-wide core services, Rutgers University, USA	9:00 AN
Transforming Animal Care and Efficiency: The Adoption of Digital Ventilated Cages in Research Set	tings
Isabelle Petit Paris - Responsible PREBIOS - Université de Poitiers, Prebios, France Anne-Lise Huot - Zootechnician - Université de Poitiers, Prebios, France	9:30 AN
Introducing DVC® in a fully operational animal facility  Ronald van Os - Scientific breeding coordinator / Member Management Team UMCG, Groningen, The Netherlands	10:00 AN
Coffee Break	10:30 AA
Assessing mice activity in breeding cages using digital technology  Jason Villano - Associate Professor of Molecular and Comparative Pathobiology, John Hopkins University, USA	11:00 PM
Automated Animal Welfare Assessment: Tecniplast's Digital Ventilated Cage System and its predimonitoring capabilities  Raphael Doenlen - Scientist, Head of the Phenotyping Unit, EPFL, Switzerland	11:30 PA

# TUESDAY, APRIL 9TH AFTERNOON

Lunch	12:30 PM
Hands-on sessions with selected Animal Management Software (ATUNE, DOXX, NorayBio)	2:00 PM
Coffee Break	3:30 PM
Evaluation of the DVC® - Digital Ventilated Cage system for facility management, assessment of animal welfare, and potential research use in preclinical drug development Thomas Reich - Study Director, Abbvie, Ludwigshafen, Germany	4:00 PM
Automated detection of behavioral stereotypies using the DVC® system to enhance animal welfare and improve research outputs Katharina Tillmann - PostDoc at the Behavioural Biology Department of Neurophysiology and Neuropharmacology, Medical University of Vienna, Austria	4:30 PM
Influence of transfer method into new cages on mouse locomotion measured in the DVC® system Markus Brielmaier - Head of Core Facility Laboratory Animal Science (CF-LAS) at Helmholtz Zentrum Munich, Germany	5:00 PM
Day 1 - Wrap up	5:30 PM
Pick up and transfer to the Hotel	6:00 PM
Pick up for Dinner at Golf Club Luvinate	7:45 PM
Transfer to the Hotel	11:00 PM

### WEDNESDAY, APRIL $10^{TH}$

#### MORNING

Pick up from the Hotel and transfer to the Tecniplast Congress Centre	7:45 AN
MODERATORS  Marcello Raspa - Technological Director CNR-IBBC; EMMA/INFRAFRONTIER, Italy (Morning)  Brun Ulfhake - Professor-Guest Researcher, Stockholm University, Sweden (Afternoon)	
A multicenter study of slow oscillations in spontaneous activity in two commonly used mouse strains  Brun Ulfhake - Professor/Guest Researcher, Stockholm University, Sweden	8:30 AM
Revolutionizing Laboratory Pup Birth Detection: an innovative acoustic monitoring approach  Jan-Bas Prins - Professor of Laboratory Animal Science, Leiden University Medical Centre, The Netherlands  Marcello Raspa - Technological Director CNR-IBBC; EMMA.INFRAFRONTIER, Monterotondo Scalo, Italy	9:00 AM
Revealing aggression in male mice through DVC® Fabrizio Scorrano - Head Emerging Technologies, Novartis AG, Basel, Switzerland	9:30 AM
Interlinked cages: can we better drive our studies? Celine Gommet - HDigital Innovation, In Vivo Research Center Paris, Sanofi, France	10:00 AM
Video-monitoring and AI solutions push animal monitoring to the next level with a version 2.0 of the DVC® rack Pierre Lainee - Head of In Vivo Research Center, Sanofi, France	10:10 AM
Coffee Break	10:40 AN
Voluntary aerobic running activity improves pathologic outcomes in a mouse model of acquired epilepsy Valentina Kebede - Istituto di Ricerche Farmacologiche Mario Negri IRCCS, Milan, Italy; eCampus University, Novedrate, Italy	11:00 AM
<b>Urination in the Home Cage: detection of polyuria in mouse models of metabolic dysregulation</b> Thomas Svava Nielsen - Senior Scientist, Novo Nordisk Foundation Center for Basic Metabolic Research, University of Copenhagen, Denmark	11:30 AM
Use and validation of DVC® in research on mouse models for vascular risk factors like obesity and stroke Amanda Kiliaan - Prof. at Donders Institute for Brain, Cognition and Behavior; Radboud University Medical Center, The Netherlands	12:00 PN
Lunch	12:30 PM

### WEDNESDAY, APRIL 10TH AFTERNOON

Sleep and circadian rhythm disruption: from mechanisms to behaviour  Stuart Peirson - Sleep and Circadian Neuroscience Institute, Nuffield Department of Clinical Neurosciences, University of Oxford, UK	2:00 PM
Deciphering the Multifaceted Aging Code: gender-based insights from natural and accelerated aging in outbred mice  Angelo Parini - Professor of Physiology (PRE) - Faculty of Pharmacy - Director of the U1048 Inserm - Institute of Metabolic and Cardiovascular Diseases, Toulouse, France	2:30 PM
Impact of Sleep Disturbances in Adolescence on Depression Risk: insights from mouse studies Birgitte Rahbek Kornum - Associate Professor, Visiting researcher. Neuronal Signalling, Copenhagen University, Denmark	3:00 PM
Coffee Break	3:30 PM
A non-invasive automated home cage digital system detects the variable phenotype of two SOD1G93A mouse models of amyotrophic lateral sclerosis  Caterina Bendotti - Laboratory of Neurobiology and Preclinical Therapeutics, Department of Neuroscience, Mario Negri Institute for Pharmacological Research IRCCS, Milano, Italy	4:00 PM
Coordinating research and building capacity for advanced home-cage monitoring — international networks and institutional core-facilities  Vootele Voikar - Helsinki Institute of Life Science, University of Helsinki, Finland	4:30 PM
Day 2 - Wrap up	5:00 PM
Pick up and transfer to Museo Fisogni and Gala Dinner	5:30 PM
Transfer to the Hotel	11:00 PM

## THURSDAY, APRIL $11^{TH}$

#### MORNING

Pick up from the Hotel and transfer to the Tecniplast Congress Centre	8:15 AM
MODERATOR  James Bussel - Director of Biomedical Services at University of Oxford, UK	
Measuring behavior with machine learning (Remote Presentation)  Alexander Mathis - Assistant Professor, EPFL, Switzerland	9:00 AM
Scientific Advancements with DVC® cages at Novartis Fabrizio Scorrano - Head Emerging Technologies, Novartis AG, Basel, Switzerland	9:30 AM
Home cage measurement of food intake, operant behaviour and spontaneous activity  Joel Eliades - Metabolic Phenotyping Platform Manager, Metabolic Disease and Obesity Program, Biomedicine Discovery  Institute, Monash University, Australia	10:00 AM
Coffee Break	10:30 AM
From Data Collection to Insight Generation in Core facilities: the role of metadata in home cage monitoring technologies  Leonardo Restivo - Department of Fundamental Neurosciences, Faculty of Biology & Medicine, University of Lausanne, Switzerland	11:00 AM
Sensitive detection of early neurological phenotypes in Mecp2 mice using digital cage monitoring  Monica Justice - Prof. of Genetics and Genome Biology Program, The Hospital for Sick Children, Toronto, Canada	11:30 AM
Novel Murine Model To Study Potassium Channel-Related Autism Spectrum Disorder (Remote Presentation)  Alessandro Bortolami - PHD, Rutgers - Robert Wood Johnson Medical School, Department of Neuroscience, Federico Sesti Lab, NJ, USA	12:00 PM
Lunch	12:30 PM

## THURSDAY, APRIL 11TH AFTERNOON

Using the DVC®- LEDDY system to better understand how circadian rhythms affect behavioural outcomes in neuroinflammatory disease  Nader Ghasemlou - Associate Professor, Queen's University; Director, Pain Chronobiology & Neuroimmunology Laboratory; Kingston, Ontario, Canada	1:30 PM
DVC® activity as a digital biomarker in an inhalation study  Annemarie Zimprich - Scientist, Institute of Experimental Genetics, Helmholtz Centre, Munich, Germany	2:00 PM
Final Wrap Up	2:30 PM
Pick ups for Malpensa Airport and to the Hotel	3:00 PM

#### **TO KNOW MORE:**

https://digitalcage-tecniplast. com/en/dvf.html



#### CONTACTS

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