MB2024

Program Schedule



All times are local, BST

Wednesday 15th May

Time	Conference Suite 2A	Meeting Room 4	Meeting Room 7	Meeting Room 5
09:00 - 10:00	Keynote: Anne-Marie Brouwer			
	Measuring Mental States			
10:00 - 10:40	Measuring behavior and physiology in and	Advances in using AI to assess animal behaviour	Behavioral tests (A)	Workshop: Certifying Digital Monitoring
	around the cockpit	and welfare		<u>Technologies</u>
10:00 - 10:20	Ivo Stuldreher - Assessing progress in flight	Mona Giersberg - Transdisciplinary Initiatives to	Mahesh Karnani - Measuring motivational	
	performance in a virtual reality simulator	Collaborate on the Responsible Use of AI for	switching in mice using open-design: the	
		Animal Welfare	Switchmaze	
10:20 - 10:40	Bertille Somon - EEG characterization of dynamic	Marlou van der Sluis - Using Multi-Directional	Eline Eberhardt - Interobserver Reliability and	
	complex processes and rare events to	Computer Vision for Automated Leg Health	Validity for Video-based Clinical Behavior of	
	understand operator's activity in aeronautical	Scoring in Broilers	Canines in Preclinical Safety Studies	
	context.			
10:40- 11:10	Break			
11:10 - 12:30	Measuring behavior and physiology in and	Advances in using AI to assess animal behaviour	Methods for the Study of Olfactory learning and	Technology for measuring behavior (A)
11.10 12.50	around the cockpit	and welfare	Memory	Technology for measuring behavior (14)
11:10 - 11:30	Anneka Hamann - A Window into the Mind? On	Arjan van Putten - Identifying and tracking group	<u> </u>	Poja Shams - Monitoring Work Stress: The Role
11.10 11.50	Usefulness and Challenges of Neurophysiological		Measuring Olfaction in Rodents	of Physiological Measures in Enhancing
	Measurements in the Cockpit	Troused Heris daing / Troco Harker backpacks	Medsaring offaction in Rodents	Workplace Well-being
	The cockpit			Workplace Well bellig
11:30 - 11:50	Maykel van Miltenburg - Unlocking Cost-	Oleksiy Guzhva - Al in rose-coloured glasses:	Richard Brown - Pavlovian Conditioned Odour	Jennifer Lumetzberger - From Bees to Prisons in
	Effective Insights: Leveraging Webcam Metrics	how close to an individual animal can (should)	Preferences in Mice	Computer Vision: Lessons for Recording
	for Cognitive Workload Assessments	we come?		Behavior in the Real World
11:50 - 12:10		Saif Agha - AI-PigNet: Insights into the social	Wyatt Ortibus - Olfactometer Methodologies in	Jeanette Hadaschik - Implementing Behavioural
		interaction of pigs through automated data and	Rodent Olfaction Research: "What can we test	Decision-Making Tasks into Virtual Reality
		social network analysis	about learning and memory?"	environments
		,	,	
12:10 - 12:30		Emma Baxter - Challenges and opportunities of	Robert Gerlai - Olfactory Cues in Zebrafish	Bénédicte Batrancourt - Rest activity pattern as
		working with PLF technology and AI researchers:		behavioral marker of apathy in patients at home
		the applied ethologist's experience	,	using sensors.
12:30 - 14:00	Lunch			
	<u> </u>	Advances in using Al to access animal behaviour	Pohovioval toete (P)	Tutorial Posts Science Coding Web based
14.00 - 15.00	Human factors	Advances in using AI to assess animal behaviour	<u>Denavioral tests (D)</u>	Tutorial: Beats Science Coding – Web-based
		and welfare		video analysis for behavioural sciences
<u></u>				

14:00 - 14:20	Esther Bosch - Beyond Snapshots: Validation of a Continuous Frustration Assessment in a Simulator and Real-World Setting	Marwa Mahmoud - Towards early prediction of disease in farm animals: Vision-AI for automatic analysis of face, gait and motion for sheep behavior understanding	Thilo Womelsdorf - Translational Validity of Assessing Cognitive Control and Memory Functions in Nonhuman Primates Using Gamified Tasks	
14:20 - 14:40	Stephen Provost - Identifying Team Process Behaviours of Clinical Nursing Teams Working on Lower-acuity Hospital Units	Lucy Asher - Can Artificial Intelligence Contribute to our Conceptual Understanding of Animal Welfare?	Rebecca Grut Sniffing Out Pigs Immediate Perception of Novel Odours (Pig Odour Hedonics)	
14:40 - 15:00		Albert Ali Salah - Automatic pain estimation in equines and canines	Tereza Nekovářová - Measuring Episodic Memory in Preschool Children	Demonstration : A New Approach to Setting Up Operant Conditioning Experiments
15:00 - 15:30	Break			
15:30 - 17:10	Using behavioural approaches to measure apathy-like behaviour in rodents	Animal welfare	<u>Bioacoustics</u>	Tutorial: DISK — a Deep Learning method for missing skeleton data imputation in 2D and 3D
15:30 - 15:50	Lianne Robinson - Development of a Behavioural Test Battery to assess Apathy-like Behaviours in Mouse Models of Neurodegeneration	Claire Witham - Home cage monitoring of group- housed animals in highly enriched enclosures	Buddhamas Pralle Kriengwatana - Acoustic features of vocalisations of laying hens in positive and negative emotional states	
15:50 - 16:10	Nicole Edwards - The splash test as a model of rodent apathy	Ineke Smit - Quantifying equine facial expressions with optical motion capture and surface electromyography; a proof of concept	Bruna Bezerra - Primate Detection Through Passive Acoustic Monitoring Varies According to Species and the Biome	
16:10 - 16:30	Richard Brown - Measuring "apathy" in mouse models of AD	Monica Battini - Setting up an observation strategy to record feeding synchronization in dairy cows	Mathilde Coutant - Bioacoustic sensors to monitor farm animal welfare: why the ethology matters	
16:30 - 16:50	John Salamone - Modeling Aspects of Apathy in Rodents using Effort-based Choice Procedures.	Sonia Rey - Rhythmicity as a welfare indicator – effect of extrinsic and intrinsic motivation in equines		
16:50 - 17:10	Mercè Correa - The 3 choice-T-maze task with running wheel: a mice paradigm to evaluate preference for reinforcers that require vigor and the role of dopamine in anergia	Janire Castellano Bueno - Bridging the Gap - Integrating Wild Animal Welfare into Behaviour Studies		
Evening	Reception			

Thursday 16th May

Time	Conference Suite 2A	Meeting Room 4	Meeting Room 7	Meeting Room 5
09:00 - 10:00	Keynote: Robert Gerlai			
	What motivates zebrafish? Searching for effective	ve unconditioned stimuli for appetitive associative		
10:00 - 11:00	AI and machine learning	Novel Methods in Measuring Animal Affective	Behavioral tests (C)	
		States		

10:00 - 10:20	Eline Eberhardt - Video-Tracking Locomotor	Lauren Finka - Using Facial Action Unit and	Robyn Grant - From labs to zoos to the field:	
попиличения попиличения попиличения попиличения попиличения попиличения попиличения попиличения попиличения по	Activity of Canines in Preclinical Safety Studies	Geometric Morphometric approaches to quantify animal facial movements and their interpretability in the context of affective states	mammalian whister and avian rictal bristle behaviour	
10:20 - 10:40	Tenzing Dolmans - Real-Time Adaptive Machine Learning Systems for Personalised Bruxism	Bridget Waller - Can Facial Action Coding Systems (FACS) be used to Quantify Emotion in	Ugne Simanaviciute - Developing novel whisker movement tests to examine object-related	
	Management	Animals?	exploration and habituation in Reeler mice	
10:40 - 11:00	Jeanne I.M. Parmentier - Measuring equine	Claire Ricci-Bonot - Automated recognition of	Veronika Borbélyová - Age- and Sex-Related	
	respiration in the field: an exploration of microphone data and deep learning detectors	facial expression of frustration and disappointment in horses during feeding period	Behavioral Changes During the Lifespan of Wistar Rats	
	inicrophone data and deep learning detectors	uisappointment in norses during reeding period	Wistai Nats	
11:00- 11:20		Catia Correia-Caeiro - A new observational tool	Ashwin Miriyala - Neural Control of Odour	
		for measuring facial movement in gorillas (Gorilla spp.): GorillaFACS - The Gorilla Facial	Seeking Behaviour In the Fruit Fly	
		Action Coding System		
- 5 · · · · · · · · · · · · · · · · · ·	Break			
11:30 - 12:30	Al and machine learning	Novel Methods in Measuring Animal Affective States	Digital Innovations in Home Cage Monitoring	
11:30 - 11:50	Alyx Elder - Challenging Machine-Learning with	Tiago Monteiro - Dogs' tail as a metronome of	Stefano Gaburro - Home cage rack-based	
	Underwater Whisker Tracking in South African	their emotional states and its use as a	technology: welfare and scientific applications	
	Fur Seals (<i>Arctocephalus pusillus</i>)	communicative tool: effects of intra and		
		interspecific audiences during a frustration condition		
11:50 - 12:10	Harry Gill - Validation Of An Al-based Markerless		Michael Tsoory - Detecting Sciatic nerve injury	The future of the Measuring Behavior
	Tracking Approach For Gait Analysis In Domestic	Landmark Detector for Cat Facial Analysis		conferences series
	Dogs		using the DVC system; a core facility unit user's perspective	
12:10 - 12:30		Anna Zamansky - The Development of a Facial	Fabrizio Scorrano - Use of rack base technologies	
		Landmark Scheme for Dogs	in Pharmaceutical Settings	
12:30 - 14:00	Lunch	<u> </u>	12:30 - 12:50 Thomas Svava Nielsen - Urination	
			in the Home Cage: Development of a Digital	
			Biomarker for Sample-Free Diagnosis of Diabetes	
		<u> </u>	in Mice	
	Poster pitches			
14:00 - 15:00 14:00 - 14:20			Tutorial: DIY home-cage monitoring	<u>Demonstrations</u> Climbing test for automated measurement of
	Postors (in avhibtion area)			vertical activity in mice – Frederico Montechiaro
14.20 14.40	Posters (in exhibtion area)			(Ugo Basile)
14:20 - 14:40 14:40 - 15:00			<u></u>	The Ethometer – Willem Dekkers (Royal GD) Advanced in-depth phenotyping smart cage –
				Michael Florea (Olden Labs)

15:00 - 15:30	Break			
15:30 - 16:50	Considerations in behavioural phenotyping of	Multi-modal measurements	Tutorial: Computer Vision Tools for Measuring	Workshop: Measuring the welfare of wild
	genetic mouse models of Alzheimer's disease		<u>Behavior</u>	<u>animals</u>
	and frontotemporal dementia			
15:30 - 15:50	Sevda Boyanova - Behavioural, cognitive and	Fan Xu - The constructive effect of positive		
	sensory phenotyping of knock-in mouse models	encouragement on preschool children		
	of Alzheimer's disease and frontotemporal			
	dementia			
15:50 - 16:10	Szu-han Wang - A simple task reveals mixed	Ivo Stuldreher - Classifying arousal and valence		
	findings: factors to consider in preclinical	from facial expressions and physiological		
	behavioural research	responses evoked by multiple stressors		
16:10 - 16:30	Loukia Katsouri - Behavioural characterisation of	Anna Kis - Non-invasive ways to measure sleep		
	humanised APP knock-in mice	behaviour in family dogs		
16:30 - 16:50	Julija Krupic - Cognitive and Behavioural	Nattapong Thammasan - Towards a Multi-Modal		
	Phenotyping of APP-KI mice in the home cage	Human Digital Twin for Nutrition and Wellbeing		
	enclosures			
Evening	Conference dinner			

Friday 17th May

Time	Conference Suite 2A	Meeting Room 4	Meeting Room 7	Meeting Room 5
09:00 - 10:00	Keynote: Albert Ali Salah			
	Designing Computational Tools for Behavioral an	d Clinical Science		
10:00 - 11:00	TEATIME presents: Enhancing Reproducibility	Al advances in pose estimation and behavior	Measuring farm animal behavior	Optimizing analysis of longitudinal, high
	and Animal Welfare through Home Cage	recognition in laboratory animals		resolution behavioural data
	<u>Systems</u>			
10:00 - 10:20	Rasneer Sonia Bains - Listening Carefully, the	Liezl Maree - Multi-view triangulation-enabled	Marie Schneider - Method comparison to	Mike Toscano - Methods to assess variation of
	Challenges of Recording Home Cage Ultrasonic	annotation for multi-animal 3D pose in SLEAP	analyse the activity rhythm of dairy cows during	movement within and across laying hens within
	Vocalizations		early lactation	a commercial system over extended periods of
				time
10:20 - 10:40	Irmgard Amrein - Clever testing of smart mice	Caleb Weinreb - Parsing the sub-second	Laura Torres Borda - Equine social proximity	Juan Steibel - Dyadic linear models for genetic
	with IntelliCage protocols avoiding water	structure of animal behavior with Keypoint-	according to space availability using ultra-	analysis of behavioral interactions
	restrictions	MoSeq	wideband technology	
10:40 - 11:00	Lars Lewejohann - Home-cage based testing:	Timon Daniels - Fast annotation of Rodent	Johanna Stenfelt - Olfactory Conditioning in	Lucas Fontanesi - European Network on
	How to bring the test to the animal and not the	Behaviors with AI Assistance: Human Observer	Farm Animals - A Discussion of Methods	Livestock Phenomics (EU-LI-PHE): Mission on Big
	animal to the experiment	and Smart Annotator collaborate through Active		Data Focused on All Types of Animal-Related
		Learning		Phenotypes, Including Behavior
11:00 - 11:30	Break			
11:30 - 12:10	TEATIME presents: Enhancing Reproducibility	Al advances in pose estimation and behavior	Measuring farm animal behavior	Technology for measuring behavior (B)
	and Animal Welfare through Home Cage	recognition in laboratory animals		
	Systems			
11:30 - 11:50	Lior Bikovski - Home cage: a uniquely sensitive	Adrian Loy - DeepRod: A human-in-the-loop	Wijbrand Ouweltjes - An investigation of several	John Church - Effectiveness of zoom equipped
	tool for detecting hidden phenotypes	system for automatic rodent behavior analysis	methods to monitor behaviour of housed dairy	drones for use in reading livestock ear tags for
			cows	animal identification.

11:50 - 12:10	Stefano Gaburro - Using Digital Biomarkers to	Vivek Kumar - End-to-end behavior annotation	Christiane Engels - Measuring Dairy Cow	Michael Florea - Towards deep physiology in
	Measure Animal Behavior for Translational	pipeline for mouse behavior annotation.	Behavior Using a Barometric Sensor	home cage: Al and sensor cages for multi-animal
	Research: The 3Rs Collaborative Initiative			whole-body health testing
12:10 - 12:45	Closing session			
12:45 - 13:30	Lunch			