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	Malou van der Sluis - Using Multi-Directional	Eline Eberhardt - Interobserver Reliability and	
	complex processes and rare events to understand	Computer Vision for Automated Leg Health	Validity for Video-based Clinical Behavior of	
	operator's activity in aeronautical context.	Scoring in Broilers	Canines in Preclinical Safety Studies	
10:40- 11:10	Break			<u>.</u>
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)
	around the cockpit	and welfare	Memory	
11:10 - 11:30	Anneka Hamann - A Window into the Mind? On	Arjan van Putten - Identifying and tracking group	Kyle Roddick - An Overview of Methods for	Poja Shams - Monitoring Work Stress: The Role of
	Usefulness and Challenges of Neurophysiological	housed hens using ArUco marker backpacks	Measuring Olfaction in Rodents	Physiological Measures in Enhancing Workplace
	Measurements in the Cockpit			Well-being
11:30 - 11:50	Maykel van Miltenburg - Unlocking Cost-Effective	Oleksiy Guzhva - Al in rose-coloured glasses: how	Richard Brown - Pavlovian Conditioned Odour	Jennifer Lumetzberger - From Bees to Prisons in
	Insights: Leveraging Webcam Metrics for	close to an individual animal can (should) we	Preferences in Mice	Computer Vision: Lessons for Recording Behavior
	Cognitive Workload Assessments	come?		in the Real World
11:50 - 12:10		Saif Agha - Al-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:	Behavioural Studies: From Anxiety to Learning	behavioral marker of apathy in patients at home
		the applied ethologist's experience		using sensors.
12:30 - 14:00	Lunch			
14:00 - 15:00	Human factors	Advances in using AI to assess animal behaviour	Behavioral tests (B)	Tutorial: Beats Science Coding – Web-based
		and welfare		video analysis for behavioural sciences
14:00 - 14:20	Esther Bosch - Beyond Snapshots: Validation of a	Marwa Mahmoud - Towards early prediction of	Thilo Womelsdorf - Translational Validity of	
20	Continuous Frustration Assessment in a Simulator	į	Assessing Cognitive Control and Memory	
	and Real-World Setting	analysis of face, gait and motion for sheep	Functions in Nonhuman Primates Using Gamified	
		behavior understanding	Tasks	

14:20 - 14:40	Stephen Provost - Identifying Team Process	Lucy Asher - Can Artificial Intelligence Contribute	Rebecca Grut Sniffing Out Pigs Immediate	
	Behaviours of Clinical Nursing Teams Working on	to our Conceptual Understanding of Animal	Perception of Novel Odours (Pig Odour Hedonics)	
	Lower-acuity Hospital Units	Welfare?		
14:40 - 15:00		Albert Ali Salah - Automatic pain estimation in	Tereza Nekovářová - Measuring Episodic Memory	Demonstration : A New Approach to Setting Up
		equines and canines	in Preschool Children	Operant Conditioning Experiments
15:00 - 15:30	Break			
15:30 - 17:10	Using behavioural approaches to measure apathy	Animal welfare	<u>Bioacoustics</u>	Tutorial: DISK — a Deep Learning method for
	<u>like behaviour in rodents</u>			missing skeleton data imputation in 2D and 3D
15:30 - 15:50	Lianne Robinson - Development of a Behavioural	Claire Witham - Home cage monitoring of group-	Buddhamas Pralle Kriengwatana - Acoustic	
	Test Battery to assess Apathy-like Behaviours in	housed animals in highly enriched enclosures	features of vocalisations of laying hens in positive	
	Mouse Models of Neurodegeneration		and negative emotional states	
15:50 - 16:10	Nicole Edwards - The splash test as a model of	Ineke Smit - Quantifying equine facial expressions	Bruna Bezerra - Primate Detection Through	
	rodent apathy	with optical motion capture and surface	Passive Acoustic Monitoring Varies According to	
		electromyography; a proof of concept	Species and the Biome	
16:10 - 16:30	Richard Brown - Measuring "apathy" in mouse	Monica Battini - Setting up an observation	Mathilde Coutant - Bioacoustic sensors to	
	models of AD	strategy to record feeding synchronization in	monitor farm animal welfare: why the ethology	
		dairy cows	matters	
16:30 - 16:50	John Salamone - Modeling Aspects of Apathy in	Sonia Rey - Rhythmicity as a welfare indicator –		
	Rodents using Effort-based Choice Procedures.	effect of extrinsic and intrinsic motivation in		
		equines		
16:50 - 17:10	Mercè Correa - The 3 choice-T-maze task with	Janire Castellano Bueno - Bridging the Gap -		
	running wheel: a mice paradigm to evaluate	Integrating Wild Animal Welfare into Behaviour		
	preference for reinforcers that require vigor and	Studies		
	the role of dopamine in anergia			
19:00	<u>Reception</u>			

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	unconditioned stimuli for appetitive associative		
10:00 - 11:00	Al and machine learning	Novel Methods in Measuring Animal Affective	Behavioral tests (C)	Tutorial: DIY home-cage monitoring
		<u>States</u>		
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:	
	Activity of Canines in Preclinical Safety Studies	Geometric Morphometric approaches to quantify	mammalian whister and avian rictal bristle	
		animal facial movements and their	behaviour	
		interpretability in the context of affective states		
10:20 - 10:40	Tenzing Dolmans - Real-Time Adaptive Machine	Bridget Waller - Can Facial Action Coding Systems	Ugne Simanaviciute - Developing novel whisker	
	Learning Systems for Personalised Bruxism	(FACS) be used to Quantify Emotion in Animals?	movement tests to examine object-related	
	Management		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	facial expression of frustration and	Behavioral Changes During the Lifespan of Wistar	
	microphone data and deep learning detectors	disappointment in horses during feeding period	Rats	

11:00- 11:20	<u> </u>	Catia Correia-Caeiro - A new observational tool	Ashwin Miriyala - Neural Control of Odour	
11.00-11.20		for measuring facial movement in gorillas (Gorilla	·	
		spp.): GorillaFACS - The Gorilla Facial Action	Seeking behaviour in the Fruit Fly	
		Coding System		
11:00 - 11:30	Break	Coung System		
11:30 - 12:30	Al and machine learning	Novel Methods in Measuring Animal Affective	Digital Innovations in Home Cage Monitoring	
11.00 11.00	The drive free free free free free free free fr	States	Digital minovations in rionic 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 Fur		technology: welfare and scientific applications	
	Seals (Arctocephalus pusillus)	communicative tool: effects of intra and		
		interspecific audiences during a frustration		
		condition		
11:50 - 12:10	Harry Gill - Validation Of An Al-based Markerless	George Martvel - CatLED: an Automated	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	(SNI) induced motor impairments and recovery	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		12:30 - 12:50 Thomas Svava Nielsen - Urination in	
			the Home Cage: Development of a Digital	
			Biomarker for Sample-Free Diagnosis of Diabetes	
			in Mice	
13:30 - 14:00	Poster pitches			
14:00 - 15:00				<u>Demonstrations</u>
14:00 - 14:20				Climbing test for automated measurement of
	Posters (in exhibtion area)			vertical activity in mice – Frederico Montechiaro
14:20 - 14:40	<u>Posters (iii exhibition area)</u>			(Ugo Basile) The Ethometer – Willem Dekkers (Royal GD)
14:40 - 15:00				Advanced in-depth phenotyping smart cage –
14.40 - 15.00				Michael Florea (Olden Labs)
15:00 - 15:30	Break			Wichael Horea (Olden Labs)
15:30 - 16:50		Multi-modal measurements	Tutorial: Computer Vision Tools for Measuring	Workshop: Measuring the welfare of wild
2.22 20.00	genetic mouse models of Alzheimer's disease and		Behavior	animals
	frontotemporal dementia		Cancelled	
15:30 - 15:50	Sevda Boyanova - Behavioural, cognitive and	Fan Xu - The constructive effect of positive		
		encouragement on preschool children		
	of Alzheimer's disease and frontotemporal			
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 and	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 Systems	recognition in laboratory animals		resolution behavioural data
10:00 - 10:20	Rasneer Sonia Bains - Listening Carefully, the	Liezl Maree - Multi-view triangulation-enabled	Marie Schneider - Method comparison to analyse	Mike Toscano - Methods to assess variation of
	Challenges of Recording Home Cage Ultrasonic Vocalizations	annotation for multi-animal 3D pose in SLEAP	the activity rhythm of dairy cows during early lactation	movement within and across laying hens within 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 structure	Laura Torres Borda - Equine social proximity	Juan Steibel - Dyadic linear models for genetic
	with IntelliCage protocols avoiding water restrictions	of animal behavior with Keypoint-MoSeq	according to space availability using ultra- wideband technology	analysis of behavioral interactions
10:40 - 11:00	Lars Lewejohann - Home-cage based testing: How	Timon Daniels - Fast annotation of Rodent	Johanna Stenfelt - Olfactory Conditioning to	Lucas Fontanesi - European Network on Livestock
	to bring the test to the animal and not the animal	Behaviors with Al Assistance: Human Observer	Reduce Stress in Farm Animals – A Possible	Phenomics (EU-LI-PHE): Mission on Big Data
	to the experiment	and Smart Annotator collaborate through Active	Experimental Set-up	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 Systems	recognition in laboratory animals		
11:30 - 11:50	Lior Bikovski - Home cage: a uniquely sensitive tool for detecting hidden phenotypes	Adrian Loy - DeepRod: A human-in-the-loop system for automatic rodent behavior analysis	Wijbrand Ouweltjes - An investigation of several methods to monitor behaviour of housed dairy cows	John Church - Effectiveness of zoom equipped drones for use in reading livestock ear tags for animal identification.
11:50 - 12:10	Stefano Gaburro - Using Digital Biomarkers to	Vivek Kumar - End-to-end behavior annotation	Christiane Engels - Measuring Dairy Cow Behavior	Michael Florea - Towards deep physiology in
	Measure Animal Behavior for Translational	pipeline for mouse behavior annotation.	Using a Barometric Sensor	home cage: AI 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			