

# DETAILED PROGRAM

3 July 2018

Tuesday

**10:15 – 10:30** Opening ceremony

**10:30 – 12:00** Session 1.

10:30 – 11:20 **Plenary Lecture 1.**

**Vocal communication between dogs and humans**

Reby David, Root-Gutteridge Holly, Ratcliffe Victoria, Taylor Anna

*Human and Animal Vocal Communication Lab, School of Psychology, University of Sussex*

11:20 – 11:35 **Dog directed speech in a stress test**

Lesch Raffaella<sup>1</sup>, Schöberl Iris<sup>2</sup>, Beetz Andrea<sup>2,3</sup>, Solomon Judith<sup>2</sup>, Fitch W. Tecumseh<sup>1</sup>, Kotrschal Kurt<sup>2</sup>

<sup>1</sup>University of Vienna, Department of Cognitive Biology, Vienna, Austria; <sup>2</sup>University of Vienna, Department of Behavioural Biology, Vienna, Austria; <sup>3</sup>University of Rostock, Department of Special Education, Institut für Sonderpädagogische Entwicklungsförderung und Rehabilitation, Rostock, Germany

11:35 – 11:50 **Overimitation in dogs: fact of fiction?**

Huber Ludwig<sup>1</sup>, Popovová Natálie<sup>1</sup>, Riener Sabine<sup>1</sup>, Salobir Kaja<sup>1</sup>, Cimarelli Giulia<sup>1</sup>

<sup>1</sup>University of Veterinary Medicine Vienna, Messerli Research Institute, Vienna, Austria

11:50 – 12:00 **A Wolfdog Point of View on the ‘Impossible Task Paradigm’**

Sommese Andrea<sup>1,2</sup>, Nováková Kamila<sup>2</sup>, Šebková Naděžda Fiala<sup>2</sup>, Bartoš Luděk<sup>1,2</sup>

<sup>1</sup>Institute of Animal Science, Department of Ethology, Praha, Czech Republic; <sup>2</sup>Czech University of Life Sciences, Department of Animal Science and Ethology, Praha, Czech Republic

12:00 – 13:00 *Lunch*

**13:00 – 14:30** Session 2.

13:00 – 13:15 **Learning from humans; Puppies performance in a social vs. operant context**

Gácsi Márta<sup>1,2</sup>, Miklósi Bernadett<sup>2</sup>, Csibra Barbara<sup>2</sup>, Fugazza Claudia<sup>2</sup>

<sup>1</sup>MTA-ELTE Comparative Ethology Research Group, Budapest, Hungary; <sup>2</sup>Eötvös Loránd University, Department of Ethology, Budapest, Hungary

13:15 – 13:30 **Can we trust the hair of the dog? HPA axis hypoactivity associated with chronic neurological disease and anxiety in domestic dogs**

Packer Rowena M A<sup>1</sup>, Davies Alex M<sup>1</sup>, Volk Holger A<sup>1</sup>, Fowkes Robert C<sup>2</sup>

<sup>1</sup>Royal Veterinary College, Clinical Science and Services, Hertfordshire, United Kingdom; <sup>2</sup>Royal Veterinary College, Endocrine Signalling Group, London, United Kingdom

13:30 – 13:40 **Automatic analysis of canine behavior is possible: a call for collaborative effort of the Canine Science community**

Zamansky Anna<sup>1</sup>, van der Linden Dirk<sup>2</sup>, Bleuer-Elsner Stephane<sup>1</sup>

<sup>1</sup>University of Haifa, Information Systems, Haifa, Israel; <sup>2</sup>University of Bristol, Bristol, United Kingdom

13:40 – 13:50 **Behavioural correlations of the domestication syndrome are present in ancient, but weak in modern, dog breeds**

Hansen Wheat Christina<sup>1</sup>, Fitzpatrick John<sup>1</sup>, Temrin Hans<sup>1</sup>

<sup>1</sup>Stockholm University, Department of Zoology, Stockholm, Sweden

- 13:50 – 14:00 **The many voices of dogs - breed group differences in vocal behaviour**  
Faragó Tamás<sup>1</sup>, Pongrácz Péter<sup>1</sup>  
<sup>1</sup>*Eötvös Loránd University, Department of Ethology, Budapest, Hungary*
- 14:00 – 14:10 **The behavioural and physiological effects of biological motion perception in dogs**  
Eatherington Carla J.<sup>1</sup>, Mongillo Paolo<sup>1</sup>, Lööke Miina<sup>2</sup>, Battaglini Luca<sup>3</sup>, Marinelli Lieta<sup>1</sup>  
<sup>1</sup>*University of Padua, BCA, Padua, Italy*; <sup>2</sup>*University of Tartu, Institute of Ecology and Earth Sciences, Tartu, Estonia*; <sup>3</sup>*University of Padua, Psychology Department, Padua, Italy*
- 14:10 – 14:20 **Comparing context-specific modulation of heart rate and heart rate variability in wolves and dogs**  
Kotrschal Kurt<sup>1</sup>, Kortekaas Kim<sup>2</sup>  
<sup>1</sup>*University of Vienna; Wolf Science Center, Ernstbrunn and Veterinary University Vienna, Department of Behavioural Biology, Vienna, Austria*; <sup>2</sup>*University of Vienna; Wolf Science Center, Ernstbrunn and Veterinary University Vienna, Behavioural Biology and Biology of Cognition, Vienna, Austria*
- 14:20 – 14:30 **Investigation of hemispheric asymmetry in dogs; A sleep EEG measurement**  
Reicher Vivien<sup>1</sup>, Vargáné Kis Anna<sup>2</sup>, Gácsi Márta<sup>3</sup>  
<sup>1</sup>*Budapest University of Technology and Economics, Department of Cognitive Science, Cognitive Science, Budapest, Hungary*; <sup>2</sup>*Hungarian Academy of Sciences, Institute of Cognitive Neuroscience and Psychology, Budapest, Hungary*; <sup>3</sup>*MTA-ELTE Comparative Ethology Research Group, Budapest, Hungary*
- 14:30 – 15:00 *Coffee Break*
- 15:00 – 16:40 Session 3.**
- 15:00 – 15:50 **Plenary Lecture 2.**  
**Genetics of domesticated behavior in red foxes**  
Kukekova Anna V.<sup>1</sup>, Johnson Jennifer L.<sup>1</sup>, Guojie Zhang<sup>2,3,4</sup>, Kharlamova Anastasiya V.<sup>5</sup>, Gulevich Rimma G.<sup>5</sup>, Vladimirova Anastasiya V.<sup>5</sup>, Acland Gregory M.<sup>6</sup>, Trut Lyudmila N.<sup>5</sup>  
<sup>1</sup>*Animal Sciences Department, College of ACES, University of Illinois at Urbana-Champaign, USA*, <sup>2</sup>*China National Genebank, BGI -Shenzhen, Shenzhen, Guangdong, China*, <sup>3</sup>*State Key Laboratory of Genetic Resources and Evolution, Kunming Institute of Zoology, Chinese Academy of Sciences, Kunming, China*, <sup>4</sup>*Section for Ecology and Evolution, Department of Biology, University of Copenhagen, Copenhagen, Denmark*, <sup>5</sup>*Institute of Cytology and Genetics of the Russian Academy of Sciences, Novosibirsk, Russia*, <sup>6</sup>*Baker Institute for Animal Health, Cornell University, College of Veterinary Medicine, Ithaca, USA*
- 15:50 – 16:05 **Wolves' and dogs' understanding of the need for a partner in the cooperative string-pulling task**  
Range Friederike<sup>1</sup>, Kassis Alexandra<sup>2</sup>, Marshall-Pescini Sarah<sup>1</sup>  
<sup>1</sup>*University of Veterinary Medicine Vienna, Messerli Research Institute, Vienna, Austria*; <sup>2</sup>*University of Bern, Switzerland, Department of Behavioural Ecology, Hinterkappelen, Switzerland*
- 16:05 – 16:20 **Associations among behavioural inhibition and owner-rated attention, hyperactivity/impulsivity, and personality in the domestic dog (Canis familiaris)**  
Csibra Barbara<sup>1</sup>, Bunford Nóra<sup>1</sup>, Peták Csenge<sup>1</sup>, Gácsi Márta<sup>1,2</sup>  
<sup>1</sup>*Eötvös Loránd University, Department of Ethology, Budapest, Hungary*; <sup>2</sup>*MTA-ELTE Comparative Ethology Research Group, Budapest, Hungary*
- 16:20 – 16:30 **The double-edged sword of domestication: Dogs are less adept than dingoes at independent problem solving**  
Johnston Angie M.<sup>1</sup>, Nosan Chloe<sup>2</sup>, Tecwyn Emma C.<sup>3</sup>, Santos Laurie R.<sup>1</sup>  
<sup>1</sup>*Yale University, Psychology, New Haven, United States*; <sup>2</sup>*Wellesley College, Wellesley, United States*; <sup>3</sup>*Cardiff University, Cardiff, United Kingdom*
- 16:30 – 16:40 **'That dog won't fit' – size awareness in dogs**  
Pongrácz Péter<sup>1</sup>, Kovács Dóra<sup>1</sup>, Lenkei Rita<sup>1</sup>  
<sup>1</sup>*Department of Ethology, Eötvös Loránd University, Budapest, Hungary*

16:40 – 17:10 *Coffee break*

**17:10 – 18:40 Session 4.**

17:10 – 17:25 **Inhibitory control correlates with working performance and differs between females and males in dogs**

Tiira Katriina<sup>1</sup>, Tikkanen Antti<sup>2</sup>, Vainio Outi<sup>3</sup>

<sup>1</sup>*smartDOG & University of Helsinki, Department of Equine and Small Animal Medicine, Helsinki, Finland*; <sup>2</sup>*Police Dog Training Centre, Hämeenlinna, Finland*; <sup>3</sup>*University of Helsinki, Department of Equine and Small Animal Medicine, Helsinki, Finland*

17:35 – 17:40 **Sleepy shelter dogs: Evaluating nocturnal activity as an indicator of adaptability of dogs to a shelter environment**

van der Laan Janneke E.<sup>1</sup>, van der Wal Annika S.<sup>1</sup>, van der Borg Joanne A.M.<sup>1</sup>, Vinke Claudia M.<sup>1</sup>

<sup>1</sup>*Faculty of Veterinary Medicine, Utrecht University, Department of Animals in Science and Society, Utrecht, Netherlands*

17:40 – 17:50 **Using food rewards effectively – factors affecting incentive motivation in dogs**

Riemer Stefanie<sup>1,2</sup>, Huber Annika<sup>1</sup>, Bütler Sarah<sup>1</sup>, Burman Oliver<sup>2</sup>

<sup>1</sup>*University of Bern, Division of Animal Welfare, Vetsuisse Faculty, Bern, Switzerland*; <sup>2</sup>*University of Lincoln, Animal Behaviour, Cognition and Welfare Research Group, School of Life Sciences, Lincoln, United Kingdom*

17:50 – 18:00 **Effects of dog assisted therapy for teenagers with behavioural disorders: a multicentre study in Catalonia**

Calvo Paula<sup>1,2</sup>, Pairet Silvia<sup>1</sup>, Vila Maribel<sup>3</sup>, Besa Anna M<sup>4</sup>, Bowen Jonathan<sup>5</sup>, Cirac Rosa<sup>1</sup>, Bulbena Antoni<sup>1,2</sup>, Fatjó Jaume<sup>1,2</sup>

<sup>1</sup>*Universitat Autònoma de Barcelona, Psychiatry and Legal Medicine, Barcelona, Spain*; <sup>2</sup>*Hospital del Mar Medical Research Institute (IMIM), Barcelona, Spain*; <sup>3</sup>*Affinity Foundation, L'Hospitalet de Llobregat, Spain*; <sup>4</sup>*Catalan Government, Catalan Social Welfare System, Direcció General d'Atenció a la Infància i l'Adolescència, Barcelona, Spain*; <sup>5</sup>*Royal Veterinary College, North Mymms, United Kingdom*

18:00 – 18:10 **Effects of oxytocin administration on interspecific social responses in shelter and pet dogs**

Dzik Marina V<sup>1</sup>, Barrera Gabriela<sup>2</sup>, Cavalli Camila M.<sup>1</sup>, Bentosela Mariana<sup>1</sup>

<sup>1</sup>*Instituto de Investigaciones Médicas- IDIM - UBA - CONICET, Buenos Aires, Argentina*; <sup>2</sup>*Instituto de Ciencias Veterinarias del Litoral (ICIVET Litoral), UNL-CONICET. Grupo de Investigación del Comportamiento en Cánidos (ICOC), Santa Fe, Argentina*

18:10 – 18:20 **Evaluating stress in dogs involved in animal assisted therapies**

Corsetti Sara<sup>1</sup>, Ferrara Miriam<sup>1</sup>, Natoli Eugenia<sup>2</sup>

<sup>1</sup>*"La Sapienza" University of Rome, Department of Biology e Biotechnology "Charles Darwin", Rome, Italy*; <sup>2</sup>*Interzonal Dog Shelter, Local Health Unit Rome 3, Rome, Italy*

18:20 – 18:30 **Mommy, where are you? Adult dogs' sensitivity to strange puppy separation calls**

Lehoczki Fanni<sup>1</sup>, Szamosvölgyi Zsuzsa<sup>1</sup>, Miklósi Ádám<sup>1,2</sup>, Faragó Tamás<sup>1</sup>

<sup>1</sup>*Eötvös Loránd University, Department of Ethology, Budapest, Hungary*; <sup>2</sup>*MTA-ELTE Comparative Ethology Research Group, Budapest, Hungary*







**12:15 – 12:45 Surprise**

12:45 – 13:45 *Lunch*

**13:45 – 14:45 Poster session 1.**  
Posters with odd poster numbers

**14:45 – 15:35 Session 7.**

**14:45 – 15:35 Plenary Lecture 5.**  
**The comparative aspects of canine cognition**  
Kaminski Juliane  
*Department of Psychology, University of Portsmouth, Portsmouth, United Kingdom*

15:35 – 16:05 *Coffee break*

**16:05 – 18:05 Roundtable**

With the contribution of three leading scientists from the field of canine-related molecular genetic research - Prof. Bridgett M. vonHoldt, Prof. Anna V. Kukekova and Prof. Greger Larson - we organize a special round-table discussion that will be introduced and moderated by Prof. Ádám Miklósi.

We also have the luck and honour that our special guest, ~~Wendie Kruis~~ will open the discussion with a keynote speech titled "What molecular genetics can offer to applied canine behavioural research?"

Following this, the main topics of the roundtable will cover issues such as:

- Is there a consensus as to where and when dogs originate?
- Are mixed breed dogs (or mongrels) healthier than purebreds?
- Recently the genetic background of some diseases has been revealed. But how close are we to reveal genes that significantly contribute to different complex behavioural traits, such as boldness, separation anxiety, or some types of aggression.
- The vast majority of dogs worldwide are of mixed heritage. Is it really possible to tell what specific breeds mutts (not mixed breeds) have in their ancestry? We may well expect no pure bred ancestors in some cases... What about feral dogs in this respect?
- What do experts think about directional selection for interspecific communicative skills to develop a modern 'breed' with high capacity of social understanding of humans?

18:45 - *Wine and Cheese Party (optional, not included in the registration fee)*

## 5 July Thursday

### 09:00 – 10:30 Session 8.

#### 09:00 – 09:50 Plenary Lecture 6.

##### Testing the dual origin dog domestication hypothesis

Larson Greger<sup>1</sup>, Laurent A. F. Frantz<sup>1,2</sup>, Angela R. Perri<sup>3</sup>, James Haile<sup>1</sup>, Ophelie Lebrasseur<sup>1</sup>

<sup>1</sup>The Palaeogenomics & Bio-Archaeology Research Network, Research Laboratory for Archaeology and History of Art, The University of Oxford, <sup>2</sup>School of Biological and Chemical Sciences, Queen Mary University of London, <sup>3</sup>Department of Human Evolution, Max Planck Institute for Evolutionary Anthropology

#### 09:50 – 10:05 Short Nose, Short Legs, Short Tail – Short Life? How Phenotype Predicts Lifespan in Dogs

Urfer Silvan R<sup>1,2</sup>, Kaeberlein Matt<sup>2,1</sup>, Promislow Daniel E. L.<sup>3,1,2</sup>, Creevy Kate E.<sup>4,1</sup>

<sup>1</sup>Dog Aging Project, Seattle, WA, United States; <sup>2</sup>University of Washington, Medicine Pathology, Seattle, WA, United States; <sup>3</sup>University of Washington, Department of Biology, Seattle, WA, United States; <sup>4</sup>Texas A&M University, Small Animal Clinical Sciences, College Station, TX, United States

#### 10:05 – 10:20 Senior Family Dog Project: studying cognitive ageing in dogs using an interdisciplinary approach

Kubinyi Enikő<sup>1</sup>, Szabó Dóra<sup>1</sup>, Wallis Lisa J<sup>1</sup>, Iotchev Ivaylo<sup>1</sup>, Sándor Sára<sup>1</sup>, Czeibert Kálmán<sup>1</sup>, Egerer Anna<sup>1</sup>, Bognár Zsófia<sup>1</sup>, Tátrai Kitti<sup>1</sup>, Turcsán Borbála<sup>1</sup>, Piotti Patrizia<sup>1</sup>

<sup>1</sup>Eötvös Loránd University, Department of Ethology, Budapest, Hungary

#### 10:20 – 10:30 Breed matters: behavioral variation in dog owners' interactions with their dogs of different breeds

Cimarelli Giulia<sup>1</sup>, Christophe Machado-Peneda<sup>1</sup>, Zsófia Virányi<sup>1</sup>

<sup>1</sup>Messerli Research Institute, Comparative Cognition, Vienna, Austria

10:30 – 11:00 Coffee break

### 11:00 – 12:30 Session 9.

#### 11:00 – 11:50 Plenary Lecture 7.

##### Behavioural synchronization and affiliation: dogs exhibit human-like social skills

Durantou Charlotte

*Ethodog, Research in Canine Ethology, France*

#### 11:50 – 12:30 Poster teasers and video abstracts 2.

*(Poster Teasers/ Video Abstract are limited to 2 min.)*

##### P02

##### Why study animal behaviour and cognition through Animal-Robot Interaction

Abdai Judit<sup>1</sup>, Miklósi Ádám<sup>2</sup>

<sup>1</sup>MTA-ELTE Comparative Ethology Research Group, Budapest, Hungary; <sup>2</sup>Eötvös Loránd Tudományegyetem, Department of Ethology, Budapest, Hungary

##### P06

##### Ground force kinetic adaptations associated with canine boots

Lawmen Caleb<sup>1</sup>, Shorter Kathleen<sup>1</sup>, Brown Wendy Y<sup>1</sup>

<sup>1</sup>University of New England, Canine and Equine Research Group, Armidale, Australia



**P16**

**Do domestic dogs rescue their owners?**

Dzik Marina V.<sup>1</sup>, Carballo Fabricio<sup>2</sup>, Freidin Esteban<sup>3</sup>, Bentosela Mariana<sup>1</sup>

<sup>1</sup>Instituto de Investigaciones Médicas- IDIM - UBA - CONICET. Grupo de Investigación del Comportamiento en Cánidos (ICOC), Buenos Aires, Argentina; <sup>2</sup>Instituto de investigaciones Biológicas y Biomédicas del Sur (INBIOSUR; CONICET -UNS), Bahía Blanca, Argentina; <sup>3</sup>Instituto de Investigaciones Económicas y Sociales del Sur (IIESS; CONICET-UNS), Bahía Blanca, Argentina

**P22**

**Canine Brawlers - Knowing a dog's personality reduces the risk of injuries from dog to dog aggression**

Ganslosser Udo<sup>1</sup>, Sandra Schöneich

<sup>1</sup>Inst of Syst Zoology/Evol.biol Jena University, Zoology, Jena, Germany

**P24**

**Reward responsiveness of family dogs; individual variation and implications to welfare**

Gerencsér Linda<sup>1,2</sup>, Bunford Nóra<sup>1,3</sup>, Moesta Alexandra<sup>4</sup>, Miklósi Ádám<sup>1,5</sup>

<sup>1</sup>Eötvös Loránd University, Ethology, Budapest, Hungary; <sup>2</sup>Hungarian Academy of Sciences - Eotvos Lorand University, MTA-ELTE 'Lendulet' Neuroethology of Communication Research Group, Budapest, Hungary; <sup>3</sup>Hungarian Academy of Sciences, Research Centre for the Natural Sciences, Institute of Cognitive Neuroscience and Psychology, Budapest, Hungary; <sup>4</sup>WALTHAM Centre for Pet Nutrition, Melton Mowbray, United Kingdom; <sup>5</sup>MTA-ELTE Comparative Ethology Research Group, Budapest, Hungary

**P26**

**Determination of Prolactin in Canine Saliva: a validation and an experimental study using an ELISA kit**

Gutiérrez Jara<sup>1</sup>, Torraca Beatrice<sup>1</sup>, Gazzano Angelo<sup>1</sup>, Ogi Asahi<sup>1</sup>, Meucci Valentina<sup>1</sup>, Mariti Chiara<sup>1</sup>

<sup>1</sup>University of Pisa, Dep. Veterinary Sciences, PISA, Italy

**P28**

**DogBAP – the Dog Body Action and Posture Coding System for the objective analysis of dogs' behaviour**

Huber Annika<sup>1,2</sup>, Dael Nele<sup>3</sup>, Caeiro Catia<sup>4,2</sup>, Würbel Hanno<sup>1</sup>, Mills Daniel<sup>2</sup>, Riemer Stefanie<sup>1</sup>

<sup>1</sup>University of Bern, VPHI Institute, Division of Animal Welfare, Bern, Switzerland; <sup>2</sup>University of Lincoln, College of Science, School of Life Sciences, Animal Behaviour, Cognition and Welfare Research Group, Lincoln, United Kingdom; <sup>3</sup>University of Lausanne, Institute of Psychology, Lausanne, Switzerland; <sup>4</sup>University of Lincoln, School of Psychology, Lincoln, United Kingdom

**P38**

**Owner's visual attention affects monotonous task performance in dogs**

Kiss Orsolya<sup>1,2</sup>, Topál József<sup>1</sup>

<sup>1</sup>Institute of Cognitive Neuroscience and Psychology, Budapest, Hungary; <sup>2</sup>Budapest University of Technology and Economics, Department of Cognitive Science, Budapest, Hungary

**P44**

**Breed differences and effect of early environment on social behaviour in dog puppies**

Lenkei Rita<sup>1</sup>, Pogány Ákos<sup>1</sup>, Fugazza Claudia<sup>1</sup>

<sup>1</sup>Eötvös Loránd University, Biological Institute, Department of Ethology, Budapest, Hungary

**P54**

**A Canine Brain and Tissue Bank**

Czeibert Kálmán<sup>1</sup>, Sándor Sára<sup>1</sup>, Egerer Anna<sup>1</sup>, Kubinyi Enikő<sup>1</sup>

<sup>1</sup>Eötvös Loránd University, Department of Ethology, Budapest, Hungary

**P62**

**A Wrinkle in Cancer: Low Age-Specific Tumor Risk in Shar-Pei Dogs Mirrors Findings in the Naked Mole-Rat**

Urfer Silvan R<sup>1,2</sup>, Promislow Daniel E. L.<sup>3,2,1</sup>, Kaeberlein Matt<sup>1,2</sup>, Pospischil Andreas<sup>4,5</sup>

<sup>1</sup>University of Washington, Medicine Pathology, Seattle, WA, United States; <sup>2</sup>Dog Aging Project, Seattle, WA, United States; <sup>3</sup>University of Washington, Department of Biology, Seattle, WA, United States; <sup>4</sup>Swiss Federal Institute of Technology, Collegium Helveticum, Zurich, Switzerland; <sup>5</sup>University of Zurich, Vetsuisse Institute of Veterinary Pathology, Zurich, Switzerland

**P64**

**Motivations of using dog activity trackers**

Väätäjä Heli K<sup>1</sup>, Majaranta Päivi<sup>1</sup>, Isokoski Poika<sup>1</sup>, Somppi Sanni<sup>2</sup>, Törnqvist Heini<sup>2</sup>, Valldeoriola Cardó Anna<sup>2</sup>, Kujala Miiamaaria V<sup>2</sup>, Vulli Elina<sup>2</sup>, Ainasoja Mari<sup>2</sup>, Vehkaoja Antti<sup>3</sup>, Juhlin Oskar<sup>4</sup>, Vainio Outi<sup>2</sup>, Surakka Veikko<sup>1</sup>

<sup>1</sup>University of Tampere, Tampere, Finland; <sup>2</sup>University of Helsinki, Helsinki, Finland; <sup>3</sup>Tampere University of Technology, Tampere, Finland; <sup>4</sup>Stockholm University, Stockholm, Finland

**P68**

**Wet noses to the touchscreen: Age, experience and stimulus properties influence discrimination performance in pet dogs**

Wallis Lisa J<sup>1,2</sup>, Schwarzl Carmen<sup>2</sup>, O'Hara Mark<sup>2</sup>, Kubinyi Enikő<sup>1</sup>, Huber Ludwig<sup>2</sup>

<sup>1</sup>Senior Family Dog Project, Department of Ethology, Budapest, Hungary; <sup>2</sup>Comparative Cognition, Messerli Research Institute, University of Veterinary Medicine Vienna, Medical University of Vienna and University of Vienna, Vienna, Austria

**P70**

**How do hyperactive dogs interact with robots?**

Bleuer-Elsner Stephane<sup>1,2</sup>, Zamansky Anna<sup>3</sup>, van der Linden Dirk<sup>4</sup>

<sup>1</sup>University of Haifa, Department of Information Systems, Haifa, Israel; <sup>2</sup>Private Veterinary Practice, Tel Aviv, Israel; <sup>3</sup>University of Haifa, Information Systems, Haifa, Israel; <sup>4</sup>University of Bristol, Bristol, United Kingdom

12:30 – 13:30 Lunch

**13:30 – 14:30 Poster session 2.**

Posters with even poster numbers

**14:30 – 16:00 Session 10.**

14:30 – 15:20 **Plenary Lecture 8.**

**Everyone in the world is my friend: The genetics of hyper-sociability in canines**

vonHoldt Bridgett

Princeton University, Ecology & Evolutionary Biology, Princeton, United States

15:20 – 15:35 **Genetic marker in human social disorder gene associated with dog-human communication and sociality in dogs**

Persson Mia, E.<sup>1</sup>, Sundman Ann-Sofie<sup>1</sup>, Halldén Lise-Lotte<sup>1</sup>, Trottier Agaia<sup>1</sup>, Jensen Per<sup>1</sup>

<sup>1</sup>Linköping University, IFM Biology, Linköping, Sweden

15:35 – 15:50 **The influence of personality, sensory problems and previous trauma on cognition and interspecific communication in pet dogs**

Wallis Lisa J<sup>1</sup>, Szabó Dóra<sup>1</sup>, Erdélyi-Belle Boglárka<sup>1</sup>, Kubinyi Enikő<sup>1</sup>

<sup>1</sup>Senior Family Dog Project, Department of Ethology, Budapest, Hungary

- 15:50 – 16:00 **Is the looking back behaviour of dogs, in an unsolvable task, help-seeking?**  
Manzenreiter Helena<sup>1</sup>, Gosch Sarah<sup>1</sup>, Přibylková Lucy<sup>1</sup>, McGetrick Jim<sup>1</sup>, Lazzaroni Martina<sup>1,2</sup>, Marshall-Pescini Sarah<sup>1,2</sup>, Range Friederike<sup>1,2</sup>  
<sup>1</sup>Messerli Research Institute, University of Veterinary Medicine, Vienna, Medical University of Vienna, University of Vienna, Comparative Cognition, Vienna, Austria; <sup>2</sup>Messerli Research Institute, University of Veterinary Medicine, Vienna, Medical University of Vienna, University of Vienna, Wolf Science Center, Vienna, Austria
- 16:00 – 16:30 *Coffee break*
- 16:30 – 18:15 Session 11.**
- 16:30 – 16:45 **Race day behaviour in greyhounds**  
Starling Melissa J<sup>1</sup>, Spurrett Anthony<sup>1</sup>  
<sup>1</sup>University of Sydney, Sydney, Australia
- 16:45 – 16:55 **Non- invasive temperature monitoring of canine athletes**  
Carter Anne J<sup>1</sup>, Hall Emily J<sup>1</sup>  
<sup>1</sup>Nottingham Trent University, Southwell, United Kingdom
- 16:55 – 17:05 **Associations between behavioral traits and disease prevalence of family dogs**  
Gerencsér Linda<sup>1</sup>, Fekete Szilvia<sup>2</sup>  
<sup>1</sup>Eötvös Loránd University, Ethology, Budapest, Hungary; <sup>2</sup>University of Veterinary Medicine, ELTE, Budapest, Hungary
- 17:05 -17:15 **Scavenging Hypothesis: Lack of evidence for the popular model of Dog Domestication on the Waste Dump**  
Jung Christoph<sup>1</sup>, Pörtl Daniela<sup>2</sup>  
<sup>1</sup>Independent Researcher, Weissenfels, Germany; <sup>2</sup>Saale-Unstrut Klinikum, Teaching hospital Leipzig and Jena Universities, Psychiatric department, Weißenfels, Germany
- 17:15 – 17:25 **Comparing different OT administration methods on OT release and owner-directed behaviours**  
Marshall-Pescini Sarah<sup>1,2</sup>, Schaebs Franka S<sup>3</sup>, Deschner Tobias<sup>3</sup>, Karl Sabrina<sup>2</sup>, Gaugg Alina<sup>2</sup>, Range Friederike<sup>1,2</sup>  
<sup>1</sup>Wolf Science Centre, Messerli Research Institute, University of Veterinary Medicine, Vienna, Austria; <sup>2</sup>Clever Dog Lab, Comparative Cognition Unit, Messerli Research Institute, University of Veterinary Medicine, Vienna, Austria; <sup>3</sup>Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany
- 17:25 – 17:35 **Sniffing out insect invaders – a novel approach to upskill biosecurity dogs**  
Moser Ariella Y<sup>1</sup>, O'neil Geoffrey<sup>2</sup>, Brown Wendy Y<sup>1</sup>  
<sup>1</sup>University of New England, Armidale, Australia; <sup>2</sup>Australian Department of Agriculture and Water Resources, Sydney, Australia
- 17:35 – 17:45 **Spontaneous vowel normalisation by dogs**  
Root-Gutteridge Holly<sup>1</sup>, Reby David<sup>1</sup>, Ratcliffe Victoria<sup>1</sup>  
<sup>1</sup>University of Sussex, Psychology, Brighton, United Kingdom
- 17:45 – 17:55 **Behavioural and population-genetic differences between family and laboratory beagles**  
Turcsán Borbála<sup>1,2</sup>, Tátrai Kitti<sup>1,3</sup>, Petró Eszter<sup>2</sup>, Topál József<sup>2</sup>, Balogh Lajos<sup>4</sup>, Egyed Balázs<sup>3</sup>, Kubinyi Enikő<sup>1</sup>  
<sup>1</sup>Eötvös Loránd University, Department of Ethology, Budapest, Hungary; <sup>2</sup>Hungarian Academy of Sciences, Research Centre for Natural Sciences, Institute of Cognitive Neuroscience and Psychology, Budapest, Hungary; <sup>3</sup>Eötvös Loránd University, Department of Genetics, Budapest, Hungary; <sup>4</sup>"Frédéric Joliot-Curie" National Research Institute for Radiobiology and Radiohygiene, Budapest, Hungary

17:55 – 18:05 **Temporal stability of intraspecific relationships in pet dogs**

Ausserwöger Sabrina<sup>1</sup>, Cimarelli Giulia<sup>1,2</sup>, Marshall-Pescini Sarah<sup>1,2</sup>

<sup>1</sup>Messerli Research Institute, University of Veterinary Medicine, Vienna, Medical University of Vienna, University of Vienna, Austria, Comparative Cognition, Vienna, Austria; <sup>2</sup>Wolf Science Centre, Messerli Research Institute, University of Veterinary Medicine, Vienna, Medical University of Vienna, University of Vienna, Vienna, Austria

18:45 - *Banquet dinner*

**6 July  
Friday**

**09:00 – 10:30 Session 12.**

**09:00 – 09:50 Plenary Lecture 9.**

**Do as I do - perspectives of canine cognition in imitation paradigms**

Fugazza Claudia

*Department of Ethology, Eötvös Loránd University, Budapest, Hungary*

**09:50 – 10:05 Is dog domestication due to epigenetic modulations in brain?**

Pörtl Daniela<sup>1</sup>, Jung Christoph<sup>2</sup>

<sup>1</sup>*Saale-Unstrut Klinikum, teaching hospital Leipzig and Jena Universities, Psychiatric Department, Weißenfels, Germany;* <sup>2</sup>*Petwatch, Halle, Germany*

**10:05 – 10:20 Age effects on cognitive performance of family dogs**

Piotti Patrizia<sup>1</sup>, Szabó Dóra<sup>1</sup>, Wallis Lisa J<sup>1</sup>, Bognár Zsófia<sup>1</sup>, Egerer Anna<sup>1</sup>, Stieglmann Bianka<sup>1</sup>, Marosi Sarolta<sup>1</sup>, Kubinyi Enikő<sup>1</sup>

<sup>1</sup>*Eötvös Loránd University, Department of Ethology, Budapest, Hungary*

**10:20 – 10:30 Developing a Japanese version of Dog Personality Scale -Evaluation based on owner, dog trainer reports and behavioral observation**

Kakinuma Miki<sup>1</sup>, Nose Izuru<sup>1</sup>

<sup>1</sup>*Nippon Veterinary and Life Science University, Laboratory of Comparative Developmental Psychology, Tokyo, Japan*

**10:30 – 11:00 Coffee break**

**11:00 – 12:30 Session 13.**

**11:00 – 11:15 Conservation dogs: Detection of invasive fish in freshwater**

Browne Clare M.<sup>1</sup>, Quaipe Jesse A.<sup>2</sup>, Edwards Timothy L.<sup>2</sup>, Ling Nicholas<sup>1</sup>, Tempero Grant W.<sup>1</sup>

<sup>1</sup>*University of Waikato, School of Sciences, Hamilton, New Zealand;* <sup>2</sup>*University of Waikato, School of Psychology, Hamilton, New Zealand*

**11:15 – 11:30 Like owner like pet, even when it comes to long-term stress**

Roth Lina SV<sup>1</sup>, Van Poucke Enya<sup>1</sup>, Sundman Ann-Sofie<sup>1</sup>, Jensen Per<sup>1</sup>

<sup>1</sup>*Linköping University, IFM Biology, Linköping, Sweden*

**11:30 – 11:40 Cross-Species Referential Communication Performed by Domestic Dogs (*Canis familiaris*)**

O'Hara Sean J<sup>1</sup>, Worsley Hannah W<sup>1</sup>

<sup>1</sup>*University of Salford, Environment & Life Sciences, Manchester, United Kingdom*

**11:40 – 11:50 Human-analogue resting-state networks in the dog brain**

Szabó Dóra<sup>1</sup>, Czeibert Kálmán<sup>1</sup>, Kettinger Ádám<sup>2,3</sup>, Gácsi Márta<sup>1,4</sup>, Andics Attila<sup>1,5</sup>, Miklósi Ádám<sup>1,4</sup>, Kubinyi Enikő<sup>1</sup>

<sup>1</sup>*Eötvös Loránd University, Department of Ethology, Budapest, Hungary;* <sup>2</sup>*Research Centre for Natural Sciences, Hungarian Academy of Sciences, Brain Imaging Centre, Budapest, Hungary;* <sup>3</sup>*Budapest University of Technology and Economics, Department of Nuclear Techniques, Budapest, Hungary;* <sup>4</sup>*MTA-ELTE, Comparative Ethology Research Group, Budapest, Hungary;* <sup>5</sup>*MTA-ELTE, 'Lendület' Neuroethology of Communication Research Group, Budapest, Hungary*

- 11:50 – 12:00 **The effects of dog training methods on companion dog welfare**  
Vieira de Castro Ana Catarina G<sup>1,2</sup>, de Sousa Liliana<sup>2</sup>, Pastur Stefania<sup>3,4</sup>, Olsson I Anna S<sup>1</sup>  
<sup>1</sup>IBMC - Institute for Molecular and Cell Biology, Porto, Portugal; <sup>2</sup>ICBAS - Instituto de Ciências Biomédicas Abel Salazar, Departamento de Ciências do Comportamento, Porto, Portugal; <sup>3</sup>Università degli studi di Trieste, Trieste, Italy; <sup>4</sup>National Institute of Biology, Ljubljana, Slovenia
- 12:00 – 12:10 **The importance of epigenetic versus genetic factors in dog domestication and breed formation**  
Sundman Ann-Sofie<sup>1</sup>, Pértille Fábio<sup>2</sup>, Guerrero-Bosagna Carlos<sup>1</sup>, Jazin Elena E.<sup>3</sup>, Jensen Per<sup>1</sup>  
<sup>1</sup>Linköping University, IFM Biology, Linköping, Sweden <sup>2</sup>University of São Paulo, Animal Biotechnology Laboratory, Animal Science and Pastures Department, São Paulo, Brazil; <sup>3</sup>Uppsala University, Department of Evolution and Development, Evolutionary Biology Centre, Uppsala, Sweden
- 12:10 – 12:20 **Understanding dog behaviour: A review, and revisiting, of common places**  
Natoli Eugenia<sup>1</sup>, Corsetti Sara<sup>2</sup>, Di Traglia Mario<sup>3</sup>, Abis Arianna<sup>4</sup>, Barillari Emanuela<sup>5</sup>, Borruso Simona<sup>2</sup>, Cafazzo Simona<sup>6</sup>, Dall'Oglio Giulia<sup>7</sup>, Ferrara Miriam<sup>8</sup>, Viggiano Emanuela<sup>9</sup>  
<sup>1</sup>ASL Rome 3, Sovrazonal Dog Shelter, Roma, Italy; <sup>2</sup>Università Sapienza di Roma Italy, Dipartimento di Biologia e Biotecnologia,, Rome, Italy; <sup>3</sup>Università "Sapienza" di Roma, Dipartimento di Sanità Pubblica e Malattie Infettive, Rome, Italy; <sup>4</sup>Associazione Djanet, Collegno (TO), Italy; <sup>5</sup>Agenzia Regionale Protezione Ambiente Calabria, Dipartimento di Catanzaro, Catanzaro, Italy; <sup>6</sup>Wolf Science Center, Ernstbrunn, Austria; <sup>7</sup>DVM freelance and Canine Consultant, Rome, Italy; <sup>8</sup>Cooperativa Sociale Le Mille e una Notte, 1957, Rome, Italy; <sup>9</sup>MIUR Istituto comprensivo Don Milani, Cerveteri (RM), Italy
- 12:20 – 12:30 **What's that point all about? Domestic dogs compare the accuracy of human social cues**  
Tecwyn Emma<sup>1</sup>, Espinosa Julia<sup>2</sup>, Pelgrim Madeline<sup>2</sup>, Marton Sarah<sup>2</sup>, Johnston Angie M.<sup>3</sup>, Buchsbaum Daphna<sup>2</sup>  
<sup>1</sup>Cardiff University, Psychology, Cardiff, United Kingdom; <sup>2</sup>University of Toronto, Psychology, Toronto, Canada; <sup>3</sup>Yale University, Psychology, New Haven, United States
- 12:30 – 12:45 Closing Ceremony**
- 12:45 – 13:45 *Lunch*

## POSTERS

### P01

#### **Directionality of motion facilitates animacy perception in dogs and humans, but in different ways**

Abdai Judit<sup>1</sup>, Ferdinandy Bence<sup>1</sup>, Lengyel Attila<sup>2</sup>, Miklósi Ádám<sup>2</sup>

<sup>1</sup>MTA-ELTE Comparative Ethology Research Group, Budapest, Hungary; <sup>2</sup>Eötvös Loránd Tudományegyetem, Department of Ethology, Budapest, Hungary

### P02

#### **Why study animal behaviour and cognition through Animal-Robot Interaction**

Abdai Judit<sup>1</sup>, Miklósi Ádám<sup>2</sup>

<sup>1</sup>MTA-ELTE Comparative Ethology Research Group, Budapest, Hungary; <sup>2</sup>Eötvös Loránd Tudományegyetem, Department of Ethology, Budapest, Hungary

### P03

#### **Intervention in child-dog interactions: comparing attitudes of participants of a seminar about dog bite prevention and parents responding to an online-survey**

Arhant Christine<sup>1</sup>, Schmied-Wagner Claudia<sup>2</sup>

<sup>1</sup>Institute of Animal Husbandry and Animal Welfare, Department for Farm Animals and Veterinary Public Health, Vetmeduni Vienna, Vienna, Austria; <sup>2</sup>Specialist Unit for Animal Husbandry and Animal Welfare, Vienna, Austria

### P04

#### **Do dogs recognize dynamic emotional facial expressions? A canine neuroimaging study**

Boch Magdalena<sup>1,2</sup>, Karl Sabrina<sup>3</sup>, Wagner Isabella C.<sup>2</sup>, Huber Ludwig<sup>3</sup>, Lamm Claus<sup>2</sup>

<sup>1</sup>University of Vienna, Cognitive Biology, Vienna, Austria; <sup>2</sup>University of Vienna, Social, Cognitive and Affective Neuroscience Unit, Department of Basic Psychological Research and Research Methods, Vienna, Austria; <sup>3</sup>Messerli Research Institute, Veterinary University Vienna, Medical University of Vienna and University of Vienna, Vienna, Austria

### P05

#### **Assessment of age-related decline of stimulus-responsiveness in dogs**

Bognár Zsófia<sup>1</sup>, Piotti Patrizia<sup>1</sup>, Szabó Dóra<sup>1</sup>, Le Nézet Louis<sup>2</sup>, Kubinyi Enikő<sup>1</sup>

<sup>1</sup>Eötvös Loránd University (ELTE), Institute of Biology, Department of Ethology, Budapest, Hungary; <sup>2</sup>Université de Rennes, Rennes, France

### P06

#### **Ground force kinetic adaptations associated with canine boots**

Lawmen Caleb<sup>1</sup>, Shorter Kathleen<sup>1</sup>, Brown Wendy Y<sup>1</sup>

<sup>1</sup>University of New England, Canine and Equine Research Group, Armidale, Australia

### P07

#### **Service dogs for epileptic people, a systematic literature review**

Catala Amélie<sup>1</sup>, Cousillas Hugo<sup>1</sup>, Hausberger Martine<sup>2</sup>, Grandgeorge Marine<sup>1</sup>

<sup>1</sup>University of Rennes 1, UMR 6552 - EthoS Animal and human ethology, Paimpont, France; <sup>2</sup>University of Rennes - CNRS, UMR 6552 - EthoS Animal and human ethology, Paimpont, France

### P08

#### **Neuropsychiatric manifestations/disorders in dogs – further oxytocin relevance**

Ciobica Alin<sup>1</sup>, Lefter Radu<sup>2</sup>, Kis Anna<sup>3</sup>

<sup>1</sup>Alexandru Ioan Cuza University, Iasi, Romania; <sup>2</sup>Romanian Academy, Biomedical, Iasi, Romania; <sup>3</sup>Hungarian Academy of Sciences, Institute of Cognitive Neuroscience and Psychology, Budapest, Hungary

**P09**

**In defence of canine behaviour assessments in shelters: Outlining their positive applications**

Clay Liam L<sup>1</sup>, Phillips Clive<sup>1</sup>, Perry Gaille<sup>2</sup>, Paterson Mandy<sup>3</sup>, Bennett Pauleen<sup>4</sup>, Vanessa Rohlf<sup>4</sup>

<sup>1</sup>The University of Queensland, Centre for Animal Welfare and Ethics, Gatton, Australia; <sup>2</sup>Delta Society, Summer hill, Australia; <sup>3</sup>Royal Society for the Prevention of Cruelty to Animals Queensland, Brisbane, Australia; <sup>4</sup>La Trobe University, School of Psychology and Public Health, Bendigo, Australia

**P10**

**Early recognition of behaviour problems in dogs using in-kennel monitoring over the first five days after admission to a shelter**

Clay Liam L<sup>1</sup>, Phillips Clive<sup>1</sup>, Paterson Mandy<sup>2</sup>

<sup>1</sup>The University of Queensland, Centre for Animal Welfare and Ethics, Gatton, Australia; <sup>2</sup>Royal Society for the Prevention of Cruelty to Animals Queensland, Brisbane, Australia

**P11**

**Longitudinal assessment of ventriculomegaly in dogs trained for fMRI studies**

Czeibert Kalman<sup>1</sup>, Gunde Eva<sup>2</sup>, Piotti Patrizia<sup>1</sup>, Kubinyi Enikő<sup>1</sup>

<sup>1</sup>ELTE, Ethology, Budapest, Hungary; <sup>2</sup>University of Veterinary Medicine, Budapest, Hungary

**P12**

**Coping strategies in dogs with impaired social functioning towards humans**

De Keuster Tiny<sup>1</sup>, Monteny Joke<sup>2</sup>, Verschueren Katrien<sup>3</sup>

<sup>1</sup>Ghent University, Behavioural Medicine Companion Animals, Merelbeke, Belgium; <sup>2</sup>Dog Education & Rehab Training, Heuveland, Belgium; <sup>3</sup>Living Statistics 9040 Gent, Belgium, Ghent, Belgium

**P13**

**The Blue Dog™ in Germany - Evolution of dog bite prevention programme aimed at families with young children (2007-2017)**

Selig Marion<sup>1</sup>, Jung Hildegard<sup>1</sup>, De Keuster Tiny<sup>2</sup>

<sup>1</sup>German Veterinary Association (DVG), Blue Dog Team, Giessen, Germany; <sup>2</sup>Ghent University, Behavioural Medicine Companion Animals, Merelbeke, Belgium

**P14**

**Effect of affiliation on dogs' behavioural synchronization with humans when walking outside**

Duranton Charlotte<sup>1,2,3</sup>, Bedossa Thierry<sup>3,4</sup>, Belkhir Séverine<sup>2</sup>, Gaunet Florence<sup>2</sup>

<sup>1</sup>EthoDog - Research in Canine Ethology, Maisons-Laffitte, France; <sup>2</sup>Aix-Marseille University, CNRS, Cognitive Psychology Laboratory (UMR 7290), Marseilles, France; <sup>3</sup>AVA Association, Cuy-Saint-Fiacre, France; <sup>4</sup>Alfort National Veterinary School, Maisons-Alfort, France

**P15**

**Guess my age? An assessment of dogs' apparent age**

Dutra Luisa<sup>1</sup>, Schork Ivana G<sup>1</sup>, Young Robert J<sup>1</sup>

<sup>1</sup>University of Salford, Environment & Life Sciences, Salford, United Kingdom

**P16**

**Do domestic dogs rescue their owners?**

Dzik Marina V.<sup>1</sup>, Carballo Fabricio<sup>2</sup>, Freidin Esteban<sup>3</sup>, Bentosela Mariana<sup>1</sup>

<sup>1</sup>Instituto de Investigaciones Médicas- IDIM - UBA - CONICET. Grupo de Investigación del Comportamiento en Cánidos (ICOC), Buenos Aires, Argentina; <sup>2</sup>Instituto de investigaciones Biológicas y Biomédicas del Sur (INBIOSUR; CONICET - UNS), Bahía Blanca, Argentina; <sup>3</sup>Instituto de Investigaciones Económicas y Sociales del Sur (IIESS; CONICET-UNS), Bahía Blanca, Argentina

**P17**

**Do dogs spontaneously recognise their owner's face in photographs?**

Lööke Miina<sup>1</sup>, Eatherington Carla J.<sup>2</sup>, Marinelli Lieta<sup>2</sup>, Mongillo Paolo<sup>2</sup>

<sup>1</sup>University of Tartu, Institute of Ecology and Earth Sciences, Tartu, Estonia; <sup>2</sup>University of Padua, BCA, Padua, Italy



**P18**

**First encounter of unfamiliar adult dogs in an outdoor area**

Egerer Anna<sup>1</sup>, Grafe Serena<sup>2</sup>, Adorján András<sup>2</sup>, Kubinyi Enikő<sup>1</sup>

<sup>1</sup>*Eötvös Loránd University, Department of Ethology, Budapest, Hungary;* <sup>2</sup>*University of Veterinary Medicine, Department of Animal Hygiene, Herdhealth and Veterinary Ethology, Budapest, Hungary*

**P19**

**Validity of using Carolina anole (*Anolis carolinensis*) detection dogs in Japan**

Fukuzawa Megumi<sup>1</sup>, Sasahara Marina<sup>1</sup>

<sup>1</sup>*Nihon University, College of Bioresource Sciences, Fujisawa, Japan*

**P20**

**De-Constructing a myth – violence and non-violence in dog training and handling – attempts for an operational definition**

Ganslosser Udo<sup>1</sup>, Bettina Hinte-Breindl

<sup>1</sup>*Inst of Syst Zoology/Evol.biol Jena University, Zoology, Jena, Germany*

**P21**

**You're the one that I want – pair-bonding and contact-seeking in captive Maned wolves (*Chrysocyon brachyurus*)**

Britta Schnappat, Ganslosser Udo<sup>1</sup>

<sup>1</sup>*Inst of Syst Zoology/Evol.biol Jena University, Zoology, Jena, Germany*

**P22**

**Canine Brawlers - Knowing a dog's personality reduces the risk of injuries from dog to dog aggression**

Ganslosser Udo<sup>1</sup>, Sandra Schöneich

<sup>1</sup>*Inst of Syst Zoology/Evol.biol Jena University, Zoology, Jena, Germany*

**P23**

**A novel method for oxytocin administration in pet dogs**

Gaugg Alina<sup>1</sup>, Karl Sabrina<sup>1</sup>, Schaebbs Franka Simea<sup>2</sup>, Range Friederike<sup>3</sup>, Marshall-Pescini Sarah<sup>1</sup>

<sup>1</sup>*Messerli Research Institute, University of Veterinary Medicine, Vienna, Medical University of Vienna, University of Vienna, Comparative Cognition, Vienna, Austria;* <sup>2</sup>*Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany;* <sup>3</sup>*Messerli Research Institute, University of Veterinary Medicine, Wolf Science Center, Vienna, Austria*

**P24**

**Reward responsiveness of family dogs; individual variation and implications to welfare**

Gerencsér Linda<sup>1,2</sup>, Bunford Nóra<sup>1,3</sup>, Moesta Alexandra<sup>4</sup>, Miklósi Ádám<sup>1,5</sup>

<sup>1</sup>*Eötvös Loránd University, Ethology, Budapest, Hungary;* <sup>2</sup>*Hungarian Academy of Sciences - Eotvos Lorand University, MTA-ELTE 'Lendulet' Neuroethology of Communication Research Group, Budapest, Hungary;* <sup>3</sup>*Hungarian Academy of Sciences, Research Centre for the Natural Sciences, Institute of Cognitive Neuroscience and Psychology, Budapest, Hungary;* <sup>4</sup>*WALTHAM Centre for Pet Nutrition, Melton Mowbray, United Kingdom;* <sup>5</sup>*MTA-ELTE Comparative Ethology Research Group, Budapest, Hungary*

**P25**

**Who's Testing and Who's Being Tested: A Cautionary Tale for Citizen Science within Canine Science**

Griffin Karen E<sup>1</sup>, Tom Pike<sup>1</sup>, Libby John<sup>1</sup>, Mills Daniel S<sup>1</sup>

<sup>1</sup>*University of Lincoln, School of Life Science, Lincoln, United Kingdom*

**P26**

**Determination of Prolactin in Canine Saliva: a validation and an experimental study using an ELISA kit**

Gutiérrez Jara<sup>1</sup>, Torraca Beatrice<sup>1</sup>, Gazzano Angelo<sup>1</sup>, Ogi Asahi<sup>1</sup>, Meucci Valentina<sup>1</sup>, Mariti Chiara<sup>1</sup>

<sup>1</sup>*University of Pisa, Dep. Veterinary Sciences, PISA, Italy*

**P27**

**Physical Activity and Dog Ownership. Is it Just Walking the Dog?**

Hielscher Benedikt<sup>1</sup>, Gansloßer Udo<sup>2</sup>, Froboese Inog<sup>1</sup>

<sup>1</sup>German Sport University Cologne, Institute of Movement Therapy and Movement-oriented Prevention and Rehabilitation, Cologne, Germany; <sup>2</sup>Friedrich Schiller University Jena, Institute of Systematic Zoology and Evolutionary Biology with Phyletic Museum, Jena, Germany

**P28**

**DogBAP – the Dog Body Action and Posture Coding System for the objective analysis of dogs' behaviour**

Huber Annika<sup>1,2</sup>, Dael Nele<sup>3</sup>, Caeiro Catia<sup>4,2</sup>, Würbel Hanno<sup>1</sup>, Mills Daniel<sup>2</sup>, Riemer Stefanie<sup>1</sup>

<sup>1</sup>University of Bern, VPHI Institute, Division of Animal Welfare, Bern, Switzerland; <sup>2</sup>University of Lincoln, College of Science, School of Life Sciences, Animal Behaviour, Cognition and Welfare Research Group, Lincoln, United Kingdom; <sup>3</sup>University of Lausanne, Institute of Psychology, Lausanne, Switzerland; <sup>4</sup>University of Lincoln, School of Psychology, Lincoln, United Kingdom

**P29**

**Pet abandonment attitudes in Portugal: correlates to responsibility and justification**

Jacobetty Rita<sup>1,2</sup>, Lopes Diniz<sup>2</sup>, Rodrigues David<sup>2</sup>

<sup>1</sup>CIS-IUL, Social Psychology, Lisbon, Portugal; <sup>2</sup>ISCTE-IUL, Social Psychology, Lisbon, Portugal

**P30**

**Heart rate parameters of wolves and dogs during risk-taking with and without human social support**

Jean-Joseph Hillary<sup>1,2</sup>, Range Friederike<sup>2,3</sup>, Kotrschal Kurt<sup>2,4,5</sup>

<sup>1</sup>University of Vienna, Cognitive Biology, Vienna, Austria; <sup>2</sup>Wolf Science Center, Messerli Research Institute, University of Veterinary Medicine, Medical University of Vienna, University of Vienna, Vienna, Austria; <sup>3</sup>Messerli Research Institute, University of Veterinary Medicine, Medical University of Vienna, University of Vienna, Vienna, Austria; <sup>4</sup>University of Vienna, Behavioural Biology, Vienna, Austria; <sup>5</sup>University of Vienna, Behavioural Biology, Grünau im Almtal, Austria

**P31**

**Highly annoying barking shows a unique combination of acoustic parameters – domestication may resulted in specific attention eliciting bark type in the dog**

Jégh-Czinege Nikolett<sup>1</sup>, Faragó Tamás<sup>1</sup>, Pongrácz Péter<sup>1</sup>

<sup>1</sup>Eötvös Loránd University, Department of Ethology, Budapest, Hungary

**P32**

**Do dogs eavesdrop on human interactions in a helping situation?**

Jim Hoi-Lam<sup>1</sup>, Marshall-Pescini Sarah<sup>2,1</sup>, Range Friederike<sup>2,1</sup>

<sup>1</sup>Messerli Research Institute, University of Veterinary Medicine, Medical University of Vienna, University of Vienna, Comparative Cognition, Vienna, Austria; <sup>2</sup>Wolf Science Center, Messerli Research Institute, University of Veterinary Medicine, Medical University of Vienna, University of Vienna, Vienna, Austria

**P33**

**Training pet dogs to use functional magnetic resonance imaging (fMRI)**

Karl Sabrina<sup>1</sup>, Boch Magdalena<sup>2</sup>, Lamm Claus<sup>2</sup>, Huber Ludwig<sup>1</sup>

<sup>1</sup>Messerli Research Institute, University of Veterinary Medicine Vienna, Medical University of Vienna, University of Vienna, Comparative Cognition, Vienna, Austria; <sup>2</sup>Social, Cognitive and Affective Neuroscience Unit, Department of Basic Psychological Research and Research Methods University of Vienna, Vienna, Austria

**P34**

**Interspecific voice discrimination in dogs**

Kaszás Noémi<sup>1</sup>, Gábor Anna<sup>1</sup>, Tamás Faragó<sup>1</sup>, Lovas Melinda<sup>1</sup>, Ádám Miklósi<sup>1</sup>, Andics Attila<sup>2</sup>

<sup>1</sup>ELTE, Ethology, Budapest, Hungary; <sup>2</sup>MTA-ELTE, 'Lendület' Neuroethology of Communication Research Group, Hungarian Academy of Sciences – Eötvös Loránd University, Budapest, Hungary

**P35**

**The Social Behaviour of Neutered Female and Male Domestic Dogs compared to Intact Dogs (*Canis lupus familiaris*):  
Video Analyses, Questionnaires and Case Studies**

Kaufmann Carina Anna<sup>1</sup>, Lorenz Kristin P.<sup>2</sup>, Gansloßer Udo<sup>3</sup>

<sup>1</sup>*University of Vechta, Zoology, Hilter, Germany;* <sup>2</sup>*University of Giessen, Zoology, Giessen, Germany;* <sup>3</sup>*Zoological Institute and Museum of Jena, Zoology and Evolutionary Biology, Jena, Germany*

**P36**

**Differences in pre-sleep activity and sleep location are associated with variability in daytime/nighttime sleep electrophysiology in the domestic dog**

Kis Anna<sup>1</sup>, Bunford Nora<sup>1,2</sup>, Reicher Vivien<sup>3</sup>, Pogány Ákos<sup>2</sup>, Gombos Ferenc<sup>4</sup>, Bódizs Róbert<sup>5</sup>, Gácsi Márta<sup>2</sup>

<sup>1</sup>*Research Centre for Natural Sciences, Hungarian Academy of Sciences, Institute of Cognitive Neuroscience and Psychology, Budapest, Hungary;* <sup>2</sup>*Eötvös University, Department of Ethology, Budapest, Hungary;* <sup>3</sup>*Budapest University of Technology, Department of Cognitive Science, Budapest, Hungary;* <sup>4</sup>*Pázmány Péter Catholic University, Faculty of Humanities and Social Sciences, Piliscsaba, Hungary;* <sup>5</sup>*Semmelweis University, Institute of Behavioural Sciences, Budapest, Hungary*

**P37**

**The effects of pre-treatment with social stimuli on dogs' tendency to conform to the human partner's behaviour**

Kis Anna<sup>1</sup>, Hernádi Anna<sup>1</sup>, Tóth Katinka<sup>1</sup>, Kovács Krisztina<sup>1</sup>, Topál József<sup>1</sup>

<sup>1</sup>*Research Centre for Natural Sciences, Hungarian Academy of Sciences, Institute of Cognitive Neuroscience and Psychology, Budapest, Hungary*

**P38**

**Owner's visual attention affects monotonous task performance in dogs**

Kiss Orsolya<sup>1,2</sup>, Topál József<sup>1</sup>

<sup>1</sup>*Institute of Cognitive Neuroscience and Psychology, Budapest, Hungary;* <sup>2</sup>*Budapest University of Technology and Economics, Department of Cognitive Science, Budapest, Hungary*

**P39**

**Odour preferences in dogs- olfactory behaviour**

Kokocińska-Kusiak Agata<sup>1</sup>

<sup>1</sup>*Institute of Genetics and Animal Breeding, Department of Animal Behavior, Warsaw, Poland*

**P40**

**Pitch-size and pitch-elevation cross-modal correspondences in domestic dogs**

Korzeniowska Anna T<sup>1</sup>, Simner Julia<sup>1</sup>, Root-Gutteridge Holly<sup>1</sup>, Reby David<sup>1</sup>

<sup>1</sup>*University of Sussex, School of Psychology, Brighton, United Kingdom*

**P41**

**Performance in a problem solving task in old and young family dogs**

Marosi Sarolta<sup>1</sup>, Piotti Patrizia<sup>2</sup>, Szabó Dóra<sup>2</sup>, Wallis Lisa J<sup>2</sup>, Zsófia Bognár<sup>2</sup>, Stiegmann Bianka<sup>2</sup>, Egerer Anna<sup>2</sup>, Marty Pauline<sup>2</sup>, Hemző Vivien<sup>2</sup>, Kubinyi Enikő<sup>2</sup>

<sup>1</sup>*University of Veterinary Medicine, Budapest, Hungary;* <sup>2</sup>*Eötvös Loránd University, Department of Ethology, Budapest, Hungary*

**P42**

**How do owners perceive dominance in dogs?**

Kubinyi Enikő<sup>1</sup>, Iotchev Ivaylo<sup>1</sup>, Wallis Lisa J.<sup>1</sup>

<sup>1</sup>*Eötvös Loránd University, Department of Ethology, Budapest, Hungary*

**P43**

**Fear vs. frustration – possible factors behind canine separation-related behaviour**

Lenkei Rita<sup>1</sup>, Alvarez Gomez Sara<sup>1</sup>, Pongrácz Péter<sup>1</sup>

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**Breed differences and effect of early environment on social behaviour in dog puppies**

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**Sleep spindles as markers of cognition and aging in the dog**

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**Language-related event-related potential in dogs**

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**An epidemiological report on dog bites in Rome 2008-2017**

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**The effect of acoustic structure of dog whines and the occurrence of non-linear phenomena on humans' perception of emotional state**

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**There is my reward! A comparative study of showing behaviour towards humans in young dogs (*Canis familiaris*) and pigs (*Sus scrofa domesticus*)**

Perez Paula<sup>1</sup>, Gerencsér Linda<sup>2</sup>, Lovas Melinda<sup>1</sup>, Ujváry Dóra<sup>1</sup>, Andics Attila<sup>2</sup>

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**Automatic identification of separation anxiety-related behaviours in family dogs (*Canis familiaris*) in controlled laboratory setting**

Perez Paula<sup>1</sup>, Gerencsér Linda<sup>2</sup>, Ferdinandy Bence<sup>3</sup>, Miklósi Ádám<sup>1</sup>, Chateau Ilona<sup>4</sup>

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**Food palatability: can it influence dog's arousal and positive behaviors related to the enjoyment?**

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**Lateralization of the dog behaviour**

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**Factors associated with severity and progression of firework fears in dogs**

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**A Canine Brain and Tissue Bank**

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**Brazilian human-dog relationships from the point of view of “walkies”**

Savalli Carine<sup>1</sup>, Vasconcellos Angelica Da Silva<sup>2</sup>, Ramos Daniela<sup>3</sup>, Torello De Mello Fernanda<sup>4</sup>, Albuquerque Natalia<sup>5</sup>

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**Dog-directed parenting as a candidate determinant of dog to owner attachment**

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**Dog behaviour during training and testing for judgement bias**

Starling Melissa J<sup>1</sup>, Bromly Louise<sup>1</sup>, McGreevy Paul D<sup>1</sup>

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**The effects of positive human-animal interaction on experimentally induced stress in women**

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**Similarity between an unfamiliar human and the owner affects dogs' preference for human partner when responding to an unsolvable problem**

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**Long-term behavioural consistency and behavioural stability in Border collies**

Turcsán Borbála<sup>1,2</sup>, Berczik Judit<sup>2</sup>, Kubinyi Enikő<sup>1</sup>, Range Friederike<sup>2</sup>, Virányi Zsófia<sup>2</sup>

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**Measuring within species individual variation in dog cognition - Which may be the underlying factors?**

Ujfalussy Dorottya Júlia<sup>1</sup>, Temesi Andrea<sup>1</sup>, Babarczy-Bereczky Boróka M.<sup>2</sup>, Baño Terencio Cristina<sup>1</sup>, Faragó Tamás<sup>2</sup>  
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**A Wrinkle in Cancer: Low Age-Specific Tumor Risk in Shar-Pei Dogs Mirrors Findings in the Naked Mole-Rat**

Urfer Silvan R<sup>1,2</sup>, Promislow Daniel E. L.<sup>3,2,1</sup>, Kaerberlein Matt<sup>1,2</sup>, Pospischil Andreas<sup>4,5</sup>  
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**Analyzing the VetCompass Primary Care Database to Compare Mortality and Disease Networks in Dogs**

Urfer Silvan R<sup>1,2</sup>, Jin Kelly<sup>1,2</sup>, Promislow Daniel E. L.<sup>1,2,3</sup>, Kaerberlein Matt<sup>1,2</sup>, O'Neill Dan G.<sup>4</sup>  
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**Motivations of using dog activity trackers**

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**Evaluation of three activity trackers in quantifying activity levels of static and dynamic behaviors of dogs**

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**Canine long-term stress: Influences of lifestyle, breed, and sex**

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**Demographic changes across the lifespan of pet dogs and their impact on health status**

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**Wet noses to the touchscreen: Age, experience and stimulus properties influence discrimination performance in pet dogs**

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**Measuring relationships: behavioural and endocrine correlates of bondedness in equally raised pack-living dogs and wolves**

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**How do hyperactive dogs interact with robots?**

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