

Advancing animal welfare science: How do we get there? – Who is it good for?

UFAW International Symposium 2019

3rd-4th July 2019

Site Oud Sint-Jan, Bruges, Belgium



Programme – poster presentations:

The following poster presentations have currently been confirmed for the symposium:

- **Armstrong E, JH Guy, T Boswell and TV Smulders** (*Newcastle University, UK*)
Comparing effects of housing system and physical condition on adult neurogenesis in the hippocampus of commercial laying hens
- **Ayoola MO, AO Oguntunji and AT Babalola** (*Bowen University and University of Ibadan, Nigeria*)
Physiological response of cockerel strains and transportation density in a hot humid ecological zone of Nigeria
- **Bakony M, G Kiss and V Jurkovich** (*University of Veterinary Medicine, Budapest, Hungary*)
The effect of hutch orientation on primary heat stress responses of dairy calves
- **Bamford LA and D Iveson** (*University Centre Myerscough College, UK*)
Is infrared thermography a reliable indicator of lameness and foot disease in sheep?
- **Bell L and S Holmes** (*University Centre Myerscough College, UK*)
Using vocalisations to interpret behavioural responses to environmental enrichment of African grey parrots (*Psittacus erithacus*)
- **Bill J, C Kirschbaum, SL Rauterberg, N Kemper and M Fels** (*University of Veterinary Medicine Hannover and Technical University of Dresden, Germany*)
Limits to the usage of hair glucocorticoids to detect stress in rabbits
- **Binding S, H Farmer, L Krusin and KA Cronin** (*European Association of Zoos and Aquaria, The Netherlands; Whitley Wildlife Conservation Trust / Paignton Zoo, UK; Lincoln Park Zoo, USA*)
The challenges, opportunities and status of animal welfare research in zoos and aquaria
- **Bobadilla PE, SM Huertas, E Akkermans, H Bueno and FJCM van Eerdenburg** (*Universidad de la República, Uruguay; OIE Collaboration Center on Animal Welfare and Livestock Production Systems (Chile-Uruguay-México); University of Utrecht, The Netherlands*)
Silvopastoral system in subtropical region: A tool to improve beef cattle welfare
- **Campos-Luna I, A Miller, M Leach and F Wemelsfelder** (*Newcastle University and SRUC, UK*)
Qualitative Behavioural Assessment: Free Choice Profiling as an initial stage in assessing laboratory mice emotional expressions
- **Chan M and TV Smulders** (*Newcastle University, UK*)
A review of the use and husbandry of chickens used in scientific research
- **Chincarini M, F Biscarini, S Cannas, S Mazzola, R Piccinini, C Palestini, M Minero, E Dalla Costa, G Vignola and G Minozzi** (*Università degli Studi di Teramo and Milano, CNR-IBBA, Milan, Italy*)
How different husbandry conditions influence gut microbiome, cortisol level and behaviour in lambs?
- **Crouch K, B Evans and VT Montrose** (*Hartpury University Centre, UK*)
The effects of auditory stimulation on the behaviour of dairy cows
- **Dietz L, AK Arnold, VC Goerlich-Jansson and CM Vinke** (*Utrecht University, The Netherlands*)
The importance of early life experiences for the development of behavioural disorders in domestic dogs
- **Ferreira VHB, EP Fonseca, ACCSD Chagas, LGM Pinheiro, HPAD Silva, NL Galvão-Coelho and RG Ferreira** (*Federal University of Rio Grande do Norte, Brazil*)
I need a friend: Changes in capuchin monkeys' grooming network and their physiological reactions after relocation
- **Gowda HK, S Subramaniyam, P Khangal, S Ramasamy and P D'Souza** (*Karnataka Veterinary, Animal and Fisheries Sciences University and Natural Remedies Private Limited, Karnataka, India*)
Do the anti-stress oral supplement upshots positive affective states?
- **Haverbeke A, S Uccheddu and A Sannen** (*Vet Ethology, Overijse and Odisee University College, Belgium*)
The effect of olfactory enrichment with *Lavandula angustifolia* on dogs in a novel environment
- **Heimbürge S, E Kanitz, A Tuchscherer and W Otten** (*Leibniz Institute for Farm Animal Biology, Germany*)
Evaluation of hair cortisol concentrations as a retrospective indicator for long-term stress in pigs and cattle
- **Heppenstall R, R Austin, K Collier, P Flecknell, M Bloomsmith and CE Bergmann** (*Oxford and Newcastle Universities, UK; Yerkes National Primate Research Center, USA*)
From bench to cage-side: Integration of novel semi-automated methods for welfare assessment of group-housed rhesus macaques used in biomedical research
- **Herzog AC, S Hörtenhuber, C Winckler and W Zollitsch** (*University of Natural Resources and Life Sciences Vienna and Research Institute of Organic Agriculture, Vienna, Austria*)
Effects of animal welfare improvement measures on the environmental impact of dairy farming – a case study for Austria
- **Iyasere OS, JO Daramola, M Wheto, D Adeuyi, RA Alade, S Emmanuel and AV Falana** (*Federal University of Agriculture, Nigeria*)
How mating ratio compromises the welfare of Nigerian indigenous chickens
- **Jung L, H Dirks and U Knierim** (*University of Kassel and CLK GmbH, Altenberge, Germany*)
Keel bone damage in laying hens – automatic measurement for long term monitoring at the slaughter line

- **Jurkovich V, F Tóth, D Varga, OK Tóth and Á Végh** (*University of Veterinary Medicine, Budapest and Alpha-Vet Ltd, Székesfehérvár, Hungary*)
Assessment of horse welfare in a travelling circus in Hungary
- **Kaurivi YB, R Laven, R Hickson, T Parkinson, K Stafford** (*Massey University, New Zealand*)
Identification of suitable animal welfare assessment measures for extensive beef systems in Namibia
- **Knowles L, M Farrell and VT Montrose** (*Hartpury University Centre and ZSL London Zoo, UK*)
The effects of personality upon breeding success in Humboldt penguins (*Spheniscus humboldti*)
- **Kopplin RI and AT Rutberg** (*Tufts University, USA*)
Chew on this: Creation of a saliva collection protocol for giraffe to evaluate welfare
- **La Cauza GF, G Ottolini, B Regaiolli, M Possenti, C Sandri and C Spiezio** (*Parco Natura Viva - Garda Zoological Park, Arca ambulatorio veterinario, Cassano D'Adda and University of Bologna, Italy*)
How to live together: A mixed-species exhibit of Ara parrots
- **Lange A, L Bauer, V Wisenöcker, S Lürzel, A Futschik and S Waiblinger** (*University of Veterinary Medicine, Vienna and JK University Linz, Austria*)
Differences in ear positions during gentle human-cattle interactions
- **Lidster K, K Owen and MJ Prescott** (*National Centre for the Replacement, Refinement and Reduction of Animals in Research, UK*)
An international crowdsourcing data project to investigate aggression in group-housed laboratory male mice
- **Lloyd K, A P Wills and S Taylor** (*Hartpury University Centre, UK*)
The anxiolytic effects of valerian (*Valeriana officinalis*) on the domestic dog (*Canis familiaris*)
- **Louton H, A Piller, S Bergmann, A Schwarzer, J Stracke, B Spindler, N Kemper, P Schmidt, J Bachmeier, B Schade, B Boehm, E Kappe and M Erhard** (*Ludwig-Maximilians-University Munich, Stiftung Tierärztliche Hochschule Hannover, Paul Schmidt Consulting, Brüterei Süd ZN of the BWE-Brüterei Weser-Ems GmbH and Co. KG and Bavarian Animal Health Service, Germany*)
Histological validation of a macroscopic visual scheme for the assessment of contact dermatitis of the hock (Hock Burn) of broilers
- **Louton H, E Rauch, S Klein, J Mönch, I Wolff, J Bachmeier, P Schmidt and M Erhard** (*Ludwig-Maximilians-University Munich, Brüterei Süd ZN of the BWE-Brüterei Weser-Ems GmbH and Co. KG and Paul Schmidt Consulting, Germany*)
A comparison of two harvesting methods (mechanical and manual) of broilers with respect to animal health
- **S Lürzel, K Spiesberger, M Patzl, A Futschik and S Waiblinger** (*University of Veterinary Medicine, Vienna and JK University Linz, Austria*)
Effect of play behaviour on salivary immunoglobulin A in calves
- **McLoughlin M, ZX Xie, ZQ Xie, Y Gao, B McCarthy, J Theobald, D Bhatta, G Wei, R Stewart and AG McElligott** (*Queen Mary University, BMCE Networks, Parc House and University of Roehampton, UK; Guangxi Veterinary Research Institute and Talent Cloud, Nanning Zhongguancun Innovation Demonstration Base, China*)
Cloud-based classification of broiler chicken vocalisations
- **Nnenna U, E Chinedu and A Micheal** (*University of Nigeria, Nsukka, Nigeria; University of Bristol, UK*)
Evaluation of spermatic cord as an alternative ligature for surgical castration
- **Obzerova S** (*University of Veterinary Medicine in Kosice, Slovakia*)
Positive reinforcement training in ovine orthopaedic models - Going the extra mile
- **O'Hagan DD and TV Smulders** (*Newcastle University, UK*)
Assessing transient affective state using intracranial recordings of brain oscillations in poultry
- **Orr B, J Norris, M Westman and R Malik** (*The University of Sydney, Australia*)
Welfare implications of hunting pigs with dogs in Australia
- **Osorio-Santos Z, R Albernaz-Gonçalves, MJ Martins Leandro, MC Yunes and MJ Hötzel** (*Universidade Federal de Santa Catarina, Brazil*)
Is a natural system good for the chicken or for the consumer?
- **Pereira FC, D Enriquez-Hidalgo, ABA Torres, MF Donoso, DL Teixeira, L Boyle and LCP Machado Filho** (*Universidade Federal de Santa Catarina, Brazil; Pontificia Universidad Catolica de Chile, Chile; Teagasc, Ireland*)
Behavioral response of dairy cows to a change in environment
- **Pierard M** (*Belgian Center for Equitation Science, Belgium*)
Developing reference ethograms: A case study on horse behaviour
- **C Poirier, CJ Oliver, J Castellano Bueno, P Flecknell and M Bateson** (*Newcastle University, UK*)
Understanding stereotypic pacing in laboratory macaques: Why is it so difficult?
- **Quintavalle Pastorino G, D Nicoll, L Moffat, R Pizzi, M Faustini, G Curone and S Mazzola** (*Università degli Studi di Milano, Italy; Manchester Metropolitan University, UK*)
Do personality traits diverge in different communally housed captive penguin species?
- **Quintavalle Pastorino G, M Albertini, S Bianchi, M Faustini, D Vigo and F Ferrucci** (*Università degli Studi di Milano, Italy; Manchester Metropolitan University and RZSS Edinburgh Zoo, UK*)
Horse behaviour and expected performance in show-jumping
- **Regaiolli B, C Spiezio and C Sandri** (*Parco Natura Viva - Garda Zoological Park and University of Bologna, Italy*)
A practical example of the use of behavioural variety index (BVI) in zoo Northern bald ibis

- **Rose PE and LM Riley** (*Universities of Exeter and Winchester and WWT, UK*)
The application of Qualitative Behavioural Assessment to zoo animal management and individual animal welfare auditing
- **Sangaré A, PL Simmy, AG Soumah, MCM Haba, ZMM Gbillimou and AM Baldé** (*Université de N'Zérékoré, Institut de Recherche Environnementale de Bossou and Centre de Recherche et de Valorisation des Plantes Médicinales, Guinée*)
The opinions of the population of Bossou on the progressive disappearance of their secular neighbours, chimpanzees
- **Sharma A, G Umapathy, V Kumar and CJC Phillips** (*University of Queensland, Australia; Centre for Cellular and Molecular Biology, Hyderabad, India*)
Hair cortisol analysis in sheltered cows and its association with various welfare indicators
- **Smid AMC, S Gulati, E McConnachie, DM Weary and MAG von Keyserlingk** (*University of British Columbia, Canada*)
Increasing cost to access a mechanical brush causes behavioural rescheduling in cows
- **Smith LM, S Hartmann, AM Munteanu, P Dalla Villa, R Quinnell and LM Collins** (*University of Leeds, UK; VIER PFOTEN International, Austria; Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale", Teramo, Italy*)
The effectiveness, efficiency and welfare impacts of dog population management methods
- **Soriano VS, MS Heidemann and CFM Molento** (*Federal University of Paraná, Brazil*)
Sheep farmers' perception of sheep welfare in southern Brazil: Preliminary results
- **Sund Hagelberg S** (*Autonomous University of Barcelona, Spain*)
Horses and equitation: "Well-being as a measure for welfare"
- **Teixeira DL, LC Salazar and L Boyle** (*Pontificia Universidad Católica de Chile, Chile; Teagasc, Ireland*)
On-farm risk factors associated with welfare conditions potentially detectable in pigs at ante-mortem inspection
- **Tenório JPL, ECO Sans, MS Heidemann and CFM Molento** (*Federal University of Paraná, Brazil*)
Motivation for chasing behavior displayed by community dogs
- **Tschoner T, M Behrendt-Wippermann, A Rieger, M Metzner, G Knubben-Schweizer, F Reichmann and M Feist** (*Ludwig-Maximilians-Universität Munich, Germany*)
Multimodal approach to pain management during umbilical surgery in calves
- **Valgaeren B, D Maryns, G Meulemans, A Van Nuffel and J Aerts** (*Ghent University College, Ghent University and Flanders Research Institute for Agriculture, Fisheries and Food, Belgium*)
RUMIN_AA: Optimization of small ruminant welfare in petting zoos and care farms
- **van den Eede, B de Feyter, L Cousyn, A van Nuffel, F Deruyck and F Sierens** (*Ghent University College, Belgium*)
Making virtual a reality in on site animal-related education
- **van der Laan JE and CM Vinke** (*Utrecht University, The Netherlands*)
Assessing adaptation to short-term challenges in sheltered dogs (*Canis familiaris*) as predictor of long-term adaptation to a shelter environment
- **van der Staay FJ, N Edenburg, VC Goerlich-Jansson and SS Arndt** (*Utrecht University, The Netherlands*)
DAWCon: A dynamic animal welfare concept
- **van Eerdenburg FJCM, T Hof, B Doeve, L Ravesloot, R Nordquist and FJ van der Staay** (*Utrecht University, The Netherlands*)
The relation between hair-cortisol concentration and various welfare assessment protocols in Dutch dairy farms
- **Vervaecke H, M Debille and P Verbeke** (*Odisee University College and BioForum Vlaanderen Antwerp, Belgium*)
Breeders' opinions about mobile-slaughter of cattle in Flanders
- **Vervaecke H, A Verlent, CI Moons, M Eens and E Van Tilburgh** (*Odisee University College, Universities of Ghent and Antwerp and Department of the Environment, Belgium*)
The animal welfare concept among students of animal-oriented studies in Flanders
- **Vidal M, JP Durieux and A Viera** (*Montpellier SupAgro, France; Federal Agency for Medicines and Health Products, Belgium; University of Lisboa, Portugal*)
Educate for animal welfare by promoting learner empowerment
- **Waley D** (*Eurogroup for Animals, Belgium*)
Perceptions of fish welfare in Europe
- **Watteyn A, M Thys, L Stadig, G Vandepoel, B Sonck and F Tuytens** (*Flemish Research Institute for Agriculture, Fisheries and Food and Boerenbond, Belgium*)
Animal welfare assessment tool for poultry, pig and cattle farmers via mobile application
- **Witham CL, F Peters and DA Farningham** (*Newcastle University and MRC Harwell, UK*)
Fight injuries and productivity in Rhesus macaques