

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

## UFAW International Symposium 2019

3<sup>rd</sup>-4<sup>th</sup> July 2019

Site Oud Sint-Jan, Bruges, Belgium

### Programme - speakers:

The symposia will feature the following keynote talks:

- **Professor Linda Keeling** (*Swedish University of Agricultural Sciences, Sweden*) Advances in technology to monitor animal welfare on the farm
- **Dr Joseph Garner** (*Stanford University, USA*) Good science, good welfare. How understanding animals used in research helps us
- **Dr Hans van de Vis** (*Wageningen Livestock Research, The Netherlands*) Challenges associated with assessing and improving the welfare of farmed fish

In addition, the symposium will feature 29 other talks:

- **Andrews C, A Gott, V Neville, D Nettle and M Bateson** (*Newcastle University and University of Bristol, UK*) Do individual differences in multiple measures of affect and welfare correlate?
- **Asher L** (*Newcastle University, UK*) What can behaviour informatics of sensor data offers animal welfare?
- **Bennett RM** (*University of Reading, UK*) The benefits of animal welfare science
- **Burn CC** (*The Royal Veterinary College, UK*) Stopping senseless standardisation: How not to waste laboratory animal lives
- **Cobb M, A Carter, A Lill and P Bennett** (*Monash and La Trobe Universities, Australia*) Advancing the welfare of working dogs: What's preventing science helping the canines who help us?
- **Cronin KA, ST Saiyed and LM Hopper** (*Lincoln Park Zoo and University of Notre Dame, USA*) Evaluating whether animal and human interests align in a zoo-based ambassador animal program with African penguins
- **Dalla Costa E, M Chincarini, L Qiu, L Spinelli, A Torricelli, S Cannas, C Palestrini, E Canali, B Cozzi, N Ferri, G Vignola and M Minero** (*Università degli Studi di Milano, Teramo and Padova, Politecnico di Milano, Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise G. Caporale and Istituto di Fotonica e Nanotecnologie, Italy*) Can functional near-infrared spectroscopy (FNIRS) give us reliable insights on sheep brain activity?
- **Foreman R and M J Farnworth** (*Nottingham Trent University, UK*) A systematic review of social and environmental factors and their implications for indoor cat welfare
- **Franco NH, A Gerós, L Oliveira, IAS Olsson and P Aguiar** (*Universidade do Porto, Portugal*) Automatic and high-throughput thermal image analysis of freely-moving, group-housed laboratory animals, validated on a mouse model of LPS-induced sepsis
- **Gray HE, L Zhang, X Ye, N Allinson and LM Collins** (*Universities of Leeds and Lincoln, UK*) Automatic monitoring of pig health and welfare
- **Henderson LJ, TV Smulders and J Roughan** (*Newcastle University, UK*) Benefits of tunnel handling persist after additional procedures
- **Huertas SM, PE Bobadilla, M Prieto and JM Lestido** (*Universidad de la República and JM Lestido Project Management, Uruguay; OIE Collaboration Center on Animal Welfare and Livestock Production Systems (Chile-Uruguay-México)*) A new methodology to improve animal welfare during transport: "PROGAT"
- **Jorquera MF, FR Dunshea, S Fuentes and EC Jongman** (*University of Melbourne, Australia*) A pilot study of early detection of porcine pleuropneumonia using remote sensing and computer vision techniques over thermal infrared and RGB imagery
- **Knock M and GA Carroll** (*Hartpury University Centre and Queens University Belfast, UK*) The potential of post-mortem carcass assessments in reflecting the welfare of beef and dairy cattle
- **Lecorps B, DM Weary and MAG von Keyserlingk** (*University of British Columbia, Canada*) Are dairy cows depressed after calving?
- **Morello GM, S Brajon, S Capas-Peneda, C Gilbert, J Hultgren, JM Ferreira and IAS Olsson** (*University of Porto, Portugal and Swedish University of Agricultural Sciences, Sweden*) Understanding pup mortality in laboratory mouse breeding: how the presence of an older litter in the cage aggravates pre-weaning mortality in mice housed in trios and in pairs
- **Rawson TE, MS Dawkins and MB Bonsall** (*University of Oxford, UK*) Mathematical modelling of Campylobacter in a broiler flock
- **Rioja-Lang FC, H Bacon, M Connor, AB Lawrence and CM Dwyer** (*University of Edinburgh and Scotland's Rural College, UK*) Prioritising animal welfare issues using expert consensus
- **Rutherford N, F Lively and G Arnott** (*Agri-Food and Biosciences Institute and Queens' University Belfast, UK*) The use of rumen temperature boluses as a novel welfare assessment tool in cattle: illustrated by monitoring stress-induced hyperthermia
- **Spiezio C, C Sandri and B Regaiolli** (*Parco Natura Viva - Garda Zoological Park and University of Bologna, Italy*) To assess zoo animal welfare using the behavioural variety index (BVI)
- **Stracke J, D Klotz, P Wohlsein, N Kemper and B Spindler** (*University of Veterinary Medicine Hannover, Germany*) Scratch the surface. Histopathology of foot pad dermatitis in turkeys

- **Telkänranta H, E Paul, M Ramirez, G Caplen, S Held, HR Whay and M Mendl** (*University of Bristol, UK and University of Helsinki, Finland*) Lateral differences in eye and nostril temperature: A novel approach to developing thermographic methods to measure emotions
- **Trevarthen A, M Mendl, E Finnegan, E Paul, A Resasco and C Fureix** (*Universities of Bristol and Plymouth, UK; National University of La Plata, Argentina*) Inactive but awake behaviour as a potential indicator of a housing-induced depressive-like state in mice
- **van der Goot MH, SS Arndt and HA van Lith** (*Utrecht University, The Netherlands*) Increasing animal welfare and reliability of results from preclinical trials and animal studies: Zooming in on variation in adaptive response patterns within and between three inbred mouse strains
- **van Dierendonck MC and CPH Moons** (*Ghent University, Belgium and Utrecht University, The Netherlands*) The WELPA project: Can human behaviour change (HBC) techniques help to improve equine welfare in riding schools and livery yards?
- **Vieira de Castro AC, J Barrett, D Fuchs, S Pastur, L de Sousa and IAS Olsson** (*Universidade do Porto, Portugal; University of Edinburgh, UK; University of Trieste, Italy*) The effects of dog training methods on companion dog welfare and dog-owner bond
- **Volkman N, B Kulig and N Kemper** (*University of Veterinary Medicine Hannover and University of Kassel, Germany*) The sound of claw lesions: Detection of lameness by acoustic analysis
- **Webster J and G Zobel** (*AgResearch Ltd., Hamilton, and Massey University, New Zealand*) Animal welfare assessment – Do we know what we are missing?