

UFAW International Conference: Advancing Animal Welfare Science

The Royal College of Physicians, Edinburgh, UK

List of posters

- Evidence for multiple temperament traits in sheep**
Leigh Atkinson, Rebecca Doyle, Andrew Woodward and Ellen Jongman (*University of Melbourne, Australia*)
- Preliminary investigation on the effect of housing system and stocking density on behavioural response of farmed rabbit *Oryctolagus cuniculus* in humid tropics**
Mathew Ayoola, Mobolaji Alabi and Oguntunji Abel O (*Bowen University, Nigeria*)
- Effects of weaning regimes on growth performance and stress response in weanling pigs**
Temitope Bankole, Olufemi Adebisi, Emmanuel Ewuola, Ayoola Oluyemi and Olusoji Abiola (*University of Ibadan, Nigeria*)
- Effect of positive human interaction on attention bias and affective states of commercial breeding dogs**
Uri Baqueiro-Espinosa, Tsz Lo, Victoria McEvoy, Rachel Hunter and Gareth Arnott (*Queen's University Belfast, UK*)
- Risk factors for integumentum alterations in the carpal region of Norwegian dairy cows**
Conor Barry and Camilla Kielland (*Norwegian University of Life Sciences (NMBU), Norway*)
- Does canine osteoarthritis affect step count?**
Leanne Blake, Jack O'Sullivan, Cameron Smith and Lucy Asher (*Newcastle University, University of Lincoln and University College London, UK*)
- Pandemic puppies: A canine welfare timebomb?**
Claire Brand, Dan O'Neill, Zoe Belshaw, Camilla Pegram, Fiona Dale, Kim Stevens and Rowena Packer (*The Royal Veterinary College and EviVet Evidence-based Veterinary Consultancy, UK*)
- Salivary biomarkers of acclimatization in dairy cows with different milk yield potential**
Liliana Cachucho, Flávio Silva, Catarina Matos, Ana Geraldo, Lénia Rodrigues, Cristina Conceição, Fernando Capela e Silva, Elsa Lamy and Alfredo Pereira (*University of Évora, Alentejo Biotechnology Center for Agriculture and Agro-food (CEBAL), Polytechnic Institute of Beja (IPBeja), Centre for Interdisciplinary Research in Animal Health (CIISA) and University of Trás-os-Montes e Alto Douro, Portugal*)
- The impact of the COVID-19 pandemic on cat and dog relinquishment and abandonment**
Grace Carroll, Alice Torjussen and Catherine Reeve (*Queen's University Belfast and University of Sussex, UK*)
- Proximity interactions in a permanently housed dairy herd: Network structure, consistency, and individual differences**
Kareemah Chopra, Holly Hodges, Zoe Barker, Jorge Vázquez Diosdado, Jonathon Amory, Tom Cameron, Darren Croft, Nick Bell and Edward Codling (*University of Essex, Writtle University College, University of Exeter and Royal Veterinary College, UK*)
- Tell me how you feel – Using a modified novel arena test (MNAT) to assess sow welfare in three different post-weaning housings**
Jen-Yun Chou and Thomas Parsons (*University of Pennsylvania, USA; University of Veterinary Medicine, Austria; Teagasc, Ireland*)

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12. **Automatic detection of enrichments usage in Rhesus monkeys**
Giulia Ciminelli, Claire Witham and Melissa Bateson (*Newcastle University and MRC Harwell, UK*)
13. **Untwisting questions about nesting materials and laboratory mouse welfare**
Kendall Coden, Jerome Geronimo, Michael Gutierrez, Kyna Byrd and Joseph Garner (*Stanford University, USA*)
14. **The growing trend of intraorgan euthanasia injections in companion animals**
Kathleen Cooney (*Companion Animal Euthanasia Training Academy and Colorado State University, USA*)
15. **Lame cow welfare: What is the mobility team thinking? Or who sees pain how?**
Emily Craven, Jenny Stavisky, Natalie Robinson and Rachel Dean (*Oakwood Veterinary Group and VetPartners, York, UK*)
16. **Getting close to animals at the zoo: Impacts on animal welfare and human psychology**
Katherine Cronin, Stephen Ross and Maureen Leahy (*Lincoln Park Zoo, USA*)
17. **Puppy separation related behaviour: Effect of preventative advice on puppy behaviour when left alone**
Fiona Dale, Charlotte Burn and Rachel Casey (*Royal Veterinary College and Dogs Trust, UK*)
18. **An investigation into *Sus scrofa domestica* and milk replacer pre-weaning, focusing on size and social behaviours in the farrowing crate**
Holly Deacon and Jonathan Amory (*Writtle University College, UK*)
19. **Associations between behaviour modification program progression, cat stress score, and latency to emerge from hiding in shelter cats (*Felis catus*) from hoarding environments**
Bailey Eagan, Karen van Haften and Alexandra Protopopova (*University of British Columbia and The British Columbia Society for the Prevention of Cruelty to Animals, Canada*)
20. **“End the cage age” - Is it possible to manage gestating sows without individual stalls?**
Maria Costanza Galli, Claudio Mazzoni, Federica Mereghetti, Elena Bordignon, Barbara Contiero and Flaviana Gottardo (*University of Padova, Swivet Research snc and Azienda agricola Lucrezia, Italy*)
21. **Measuring affective state in the horse (*Equus caballus*): The emotional response to a reward prediction error paradigm**
Julia Gerke, Claire O’Brien, Ourania Kyrozi and Sebastian McBride (*Aberystwyth University, UK*)
22. **Facial expressions of acute pain in Japanese macaques: Development of an assessment tool**
Vanessa Gris, Takako Miyabe-Nishiwaki, Nelson Broche Jr., Akihisa Kaneko, Munehiro Okamoto, Juri Suzuki and Daniel Mills (*Kyoto University, Japan and University of Lincoln, UK*)
23. **Friends? – Effects of gilts’ social experiences and genetic line when meeting an unfamiliar pig at 5 and 20 weeks of age**
Linda Marie Hannius, Linda Keeling, Claes Anderson, Daiana de Oliveira, Stina Emriksson and Anna Wallenbeck (*Swedish Universities of Agricultural Sciences, Sweden*)
24. **Does regenerative agriculture address animal welfare, human well-being, and environment conservation (One Welfare approach)? – A review**
Matías Hargreaves-Méndez and María Hötzel (*Universidade Federal de Santa Catarina, Brazil*)
25. **Changes in prevalence of owner reported separation related behaviour with time dogs left alone during COVID restrictions**
Naomi Harvey, Robert Christley, Rebecca Mead, Jane Murray, Melissa Upjohn and Rachel Casey (*Dogs Trust, UK*)

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26. **Welfare considerations for chickens used as laboratory animals**
Lindsay Henderson, Kris Hogan, Amanda Novak, Adrian Sherman and Helen Sang (*University of Edinburgh, UK*)
27. **Bowls are boring: Investigating the use of enrichment feeding for pet dogs and the associated perceived benefits and challenges**
Madeline Heys, Imogen Lloyd and Carri Westgarth (*University of Liverpool, UK*)
28. **The effect of sleep quantity and quality on the affective state of the horse**
Sophie Hicks, Gianluca Tucci, Aleksandra Mikolajczak, Rachel Anstey, Gabby Dickson, Ceris Owen-Fraser, Eloise Bournes, Linda Greening, Claire O'Brien and Sebastian McBride (*Aberystwyth University and Hartpury University, UK*)
29. **Investigating the relationship between recumbence and the frequency of stereotypical and feeding behaviour in two captive African elephants (*Loxodonta africana*) at night**
Amber Ianniello (*Oxford Brookes University and Abingdon and Witney College, UK*)
30. **Welfare and scientific limitations of the forced swim test**
Kimberley Jayne, Julia Baines and Emily Trunnell (*People for the Ethical Treatment of Animals (PETA) UK and USA*)
31. **Avoiding frustration by providing a cheap alternative – Using a novel maximum price paid test to quantify the maternal motivation in dairy cows (*Bos taurus taurus*)**
Emma Jensen, Melissa Bateson, Heather Neave and Margit Jensen (*Aarhus University, Denmark; Newcastle University, UK*)
32. **The structure and temporal changes in brokerage typologies applied to a dynamic sow herd**
Sarah Jowett, Zoe Barker and Jonathan Amory (*Writtle University College and University of Reading, UK*)
33. **Light and larvae for layers: Early-life interventions to prevent feather pecking in laying hens**
Saskia Kliphuis, Maëva Manet, Vivian Goerlich, Rebecca Nordquist, Frank Tuytens and Bas Rodenburg (*Utrecht University and Wageningen University & Research, Netherlands; Flanders Research Institute for Agriculture, Fisheries and Food (ILVO) and Ghent University, Belgium*)
34. **Towards the study of boredom in pigs – Developing a task to assess pigs' time perception**
Kristina Kull, Christoph Winckler and Sara Hintze (*University of Natural Resources and Life Sciences (BOKU), Austria*)
35. **Piglets' reaction to human after weaning is linked to the response of their sow to the same human during gestation**
Mathilde Lanthony, Marek Špinka and Céline Tallet (*INRAE, France; Czech University of Life Sciences, Czech Republic*)
36. **Using horses' facial expressions to assess pain levels automatically through deep learning-based modeling**
Gabriel Lencioni, Rafael Sousa, Edson Sardinha, Rodrigo Corrêa and Adroaldo Zanella (*University of São Paulo (USP), Brazil*)
37. **The importance of comprehensive species-specific datasets in animal welfare research: An example with donkeys**
Holly Little, Stuart Norris, Linda Evans, Andrew Judge and Sarah Tulloch (*The Donkey Sanctuary, UK*)
38. **The PDSA Animal Wellbeing (PAW) report 2021: The impact of COVID-19 on UK pet wellbeing**
Rachel Malkani, Emma Tipton, Rebecca Ashman, Lynne James and Sean Wensley (*PDSA and University of Surrey, UK*)

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39. **Primary validation and reliability testing of the animal welfare assessment grid for dogs**
Rachel Malkani, Sarah Wolfensohn and Sharmini Paramasivam (*University of Surrey, UK*)
40. **MANYGOATS - A network to promote open and reproducible research on goat behaviour and welfare**
ManyGoats, Federica Amici, Okan Atay, Mario Balaro, Monica Battini, Joao HC Costa, Ruan Daros, Shai David, Özdal Gökdal, Edna Hillmann, Nina Keil, Whitney Knauer, Lorena Lacuesta, Serge-Yan Landau, Rebecca Meagher, Carly Moody, Christian Nawroth, Heather Neave, Tjasa Pangerl, Fernando Sanchez-Davila, Janko Skok, Jenny Stracke, Jordan Tonooka, Rodolfo Ungerfeld, Beth Ventura, Arantxa Villagrà, Susanne Waiblinger and Gosia Zobel (*Leipzig University, Max Planck Institute for Evolutionary Anthropology, Humboldt-Universität zu Berlin and Research Institute for Farm Animal Biology and University of Bonn, Germany; Aydın Adnan Menderes University, Turkey; Universidade Federal Fluminense and Pontifícia Universidade Católica do Paraná, Brazil; University of Milan, Italy; University of Kentucky, University of Minnesota and UC Davis, USA; Zoological Center Ramat Gan and Agricultural Research Organization, Rishon LeZion, Israel; Centre of Proper Housing of Ruminants and Pigs, Switzerland; Universidad de la República, Uruguay; Dalhousie University, Canada; Aarhus University, Denmark; University of Maribor, Slovenia; Universidad Autonoma de Nuevo Leon, Mexico; Instituto Valenciano de Investigaciones Agrarias, Spain; University of Veterinary Medicine, Austria; AgResearch Ltd, New Zealand*)
41. **Effect of weaning age on various measures of health in Rhesus macaques (*Macaca mulatta*): A retrospective study**
David Massey, Claire Witham and Melissa Bateson (*Newcastle University and MRC Harwell Institute, UK*)
42. **Trap-Neuter-Adopt (TNA) as a welfare friendly solution for improving unwanted dogs welfare**
Liat Morgan, Naama Shir-Nissan, Rune Birkler, John Boone, Andrew Rowan, Wiessam Abu Ahmed, Amir Steinman, Boris Yakobson, Ehud Gazit and Melissa Bateson (*Tel Aviv University, The Hebrew University of Jerusalem and Kimron Veterinary Institute, Israel; Newcastle University, UK; Great Basin Bird Observatory and Wellbeing International, USA*)
43. **Ethics assessment when publishing animal welfare research in an international scientific world**
Birte Nielsen, Anna Olsson, Irene Camerlink, Péter Pongrácz, Jen-Yun Chou, Maria Camila Ceballos, Alexandra Whittaker and Huw Golledge (*UFAW, UK; Universidade do Porto, Portugal; Polish Academy of Sciences, Poland; Eötvös Loránd University, Hungary; Teagasc, Ireland; University of Calgary, Canada; University of Adelaide, Australia*)
44. **Does affective state alter the hedonic value of a social reward in laboratory mice?**
Ryan Nolan, Candy Rowe, Matthew Leach and Jane Hurst (*University of Liverpool and Newcastle University, UK*)
45. **Handling method affects anxiety-like behaviour but not measures of chronic stress**
Janja Novak, Ivana Jaric, Marianna Rosso, Reto Rufener, Chadi Touma and Hanno Würbel (*University of Bern, Switzerland; University of Osnabrück, Germany*)
46. **Are palatability assessments a valid measure of hedonic responses in *Equus caballus*?**
Claire O'Brien, Sebastian MacBride and Matthew Parker (*Aberystwyth University and University of Portsmouth, UK*)
47. **Manual and precision livestock farming (PLF) assisted welfare comparison between two housing systems used in organic egg production**
Michael Odintsov Vaintrub and Pierfrancesco Di Giuseppe (*Università Politecnica delle Marche and Università di studi di L'Aquila, Italy*)

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48. **Weekly alternation and continuous presentation of environmental enrichment on behaviour of grower pigs**
Ayoola Oluyemi, Olufemi Adebisi and Temitope Bankole (*University of Ibadan, Nigeria*)
49. **Implementation and use of a novel welfare assessment tool to improve primate behavioural management programs**
Carly O'Malley, Emilie Paterson and Patricia Turner (*Charles River and University of Guelph, Canada*)
50. **The effect of dog colour, size and environment on a human approach-stop task using videos of a simulated dog model displaying aggressive behaviours**
James Oxley, Helena Ransome-Prince, Georg Meyer, Iain Cant, Giuseppe Ballantuono, Matthew Butcher Andrew, Levers and Carri Westgarth (*University of Liverpool and Virtual Engineering Centre, UK*)
51. **Automated labelling of facial features in domestic dogs**
Marie-Claire Pagano, Cameron Smith and Lucy Asher (*Newcastle University and University College London, UK*)
52. **Grazing restriction induces wool pulling behaviour in sheep and it can be evaluated through wool inspection**
Ricard Pares, Pol Llonch, Xavier Manteca and Xavier Such (*Universitat Autònoma de Barcelona, Spain*)
53. **Early behavioural indicators of gastrointestinal parasitism in extensively farmed sheep for a precision livestock approach to welfare management**
Michelle Reeves, Heather McDougall, Fiona Kenyon, Jessica Martin, Emma Baxter and Cathy Dwyer (*Moredun Research Institute, University of Edinburgh and SRUC, UK*)
54. **Progress of primate environmental enrichment literature 1978 – 2019**
Samuel Richardson
55. **A five domains approach to assessing the welfare of dairy donkeys**
Karen Rickards, Fiona Cooke and Stuart Norris (*The Donkey Sanctuary, UK*)
56. **Dam (*Canis familiaris*) welfare throughout the peri-parturient period in commercial-breeding kennels**
Aynsley Romaniuk, Shanis Barnard, Jennifer Weller, Hsin-Yi Weng, Sriveny Dangoudoubiyam and Candace Croney (*Purdue University, USA; Agri-Food & Biosciences Institute, UK*)
57. **A humane death for black soldier fly larvae (*Hermetia illucens*) used in food and feed**
Lizzie Rowe, Erika de Castro and Miha Pipan (*Better Origin, UK*)
58. **Human-animal relationships in animal agriculture: Evolving perspectives on developing respectful relationships with animals**
Erin Ryan, Daniel Weary and Becca Franks (*University of British Columbia, Canada; New York University, USA*)
59. **Not good on foot? The occurrence of claw asymmetries during the lifetime of fattening pigs (*Sus scrofa*)**
Sarah Seufert, Nina Volkmann, Johannes Schmidt-Mosig and Nicole Kemper (*University of Veterinary Medicine Hannover and vetvise GbR, Germany*)
60. **Development and encoding of arousal in Mongolian gerbil and Djungarian hamster infant vocalisations**
Yara Silberstein and Marina Scheumann (*University of Veterinary Medicine Hannover, Germany*)
61. **Influence of bedding hygiene and colostrum management in dairy calves' health**
Flávio Silva, Cristina Conceição, Severiano Silva, Pedro Caetano, Joana Ramalho, Sofia Pedro, Inês Azevedo, Luís Martins, Alfredo Pereira and Joaquim Cerqueira (*University of Trás-os-Montes e Alto Douro, University of Évora and Agrarian School of Viana do Castelo Polytechnic Institute, Portugal*)

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62. **A guide to practical tools for improving scientific validity, animal welfare and health & safety**
Adrian Smith and Bente Bergersen (*Norecopa, Norway*)
63. **The use of companion animals in media: Welfare implications and a possible regulatory solution**
Ira Snir, Liran Plitman and Yael Arbel (*Israeli Veterinary Services and Animal Health, Israel*)
64. **(Anti-) social animal. Is sociality a matter of the rearing process in turkeys?**
Jenny Stracke, Alicia Krasny, Stefanie Tensfeldt and Nicole Kemper (*University of Bonn and University of Veterinary Medicine Hannover, Germany*)
65. **Analysis of dairy cows' activity using a hybrid modelling approach for the early detection of health problems**
Masoomah Taghipoor, Severine Bord, Laure Sansonnet, Quentin Bulk and Joon Kwon (*Université Paris-Saclay and Ferme expérimentale AgroParisTech, France*)
66. **The use of pigs vocalisations structure to assess the quality of human-pig relationship**
Céline Tallet and Avelyne Villain (*PEGASE, INRAE, France*)
67. **Operationalize stunning of captured plaice (*Pleuronectes platessa*) and turbot (*Scophthalmus maximus*) at sea: Provisions to ensure improved welfare**
Hans van de Vis, Michelle Boonstra and Hendrik Kramer (*Wageningen Livestock Research, Wageningen Marine Research and MDV-Beheer, The Netherlands*)
68. **The use of body surface temperature to detect valence of affective state and magnitude of food reward**
Chanakarn Wongsangchan, Ruedi Nager, Dominic McCafferty and Dorothy McKeegan (*University of Glasgow, UK*)
69. **Changing human behaviour for animal welfare: The case of sheep tail docking length in Australia**
Madeleine Woodruff, Carolina Munoz, Rebecca Doyle, Grahame Coleman and Stuart Barber (*University of Melbourne, Australia; University of Edinburgh, UK*)
70. **How Japanese people make decisions about the happiness of zoo animals – A comparison between zoo visitors and professionals**
Yumi Yamanashi, Yuko Ikkatai, Rie Akami, Nahoko Tokuyama, Moe Honjo and Duncan Wilson (*Kyoto City Zoo, Kyoto University, Kanazawa University, Japan Monkey Centre and Nagasaki University, Japan*)
71. **Difficult paradigm shift? Reasons for continued animal use for educational purposes revealed in non-technical summaries**
Miriam Zemanova, Andrew Knight and Susanna Lybæk (*Animalfree Research and University of Fribourg, Switzerland; Oxford Centre for Animal Ethics and University of Winchester, UK; Griffith University, Australia; The Norwegian Animal Protection Alliance (Dyrevernalliansen), Norway*)