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1. **Alabi OM, FA Aderemi, MO Ayoola, BO Alabi, OS Iyasere and B Oyebanji** (*Bowen University, Federal University of Agriculture, Abeokuta and Obafemi Awolowo University, Nigeria*)
Pecking among chickens: Is debeaking the best solution?
2. **Ali GL** (*Writtle University, UK*)
The effects of Tayyib on the Halal meat industry. In UK consumer opinion do modern farming practises comply with the teachings of Quran and Hadith?
3. **Alonso WJ and C Schuck-Paim** (*The Welfare Metrics Project, Spain; Federal University of Santa Catarina, Brazil*)
A novel framework for the quantification of pain and welfare assessment in animals
4. **Anderson KN, KJ Allen, A Baysinger, M Benjamin, J Berger, JR Claus, BJ Greco, B O'Brien, EA Pintens, A Ramirez, AA Reyes, PE Zhitnitskiy and KD Vogel** (*Universities of Wisconsin and Minnesota, Michigan State University, Merck Animal Health, Abbyland Pork Pack and Iowa State University, USA*)
Relationship of tissue dimensions and three captive bolt application sites on cadaver heads from mature swine (*Sus scrofa domestica*) > 200 kg body weight
5. **Arbel Y** (*Israeli Veterinary Services and Animal Health, Israel*)
Import trends in 2011-2020 and its implication to the welfare of dogs during international air transport
6. **Azarpajouh S, L Boyle and JA Calderón Díaz** (*Independent researcher, USA; Teagasc, Ireland*)
Cluster analysis of welfare indicators in group housed sows
7. **Baert S, DB Haley, R Bergeron, L Aubé, S Conte and N Devillers** (*University of Guelph and Agriculture and Agri-food Canada, Canada*)
Thermoregulation strategies of sows housed outdoors in eastern Canada
8. **Baqueiro-Espinosa U, V McEvoy and G Arnott** (*Queen's University Belfast, UK*)
Factors influencing ease of whelping and its relationship with maternal behaviour in commercial breeding dogs
9. **Barabas AJ, JR Lucas, MA Erasmus, HW Cheng and BN Gaskill** (*Purdue University, USA*)
Validating measures of dominance in male laboratory mice to better understand home cage aggression
10. **Baumgartner K, F Delfour, T Hüttner, M Garcia Hartmann, D Garcia-Párraga, X Manteca, B Mercera, T Monreal-Pawlowsky, C Pilenga, K Ternes, O Tallo-Parra, L von Fersen and R Vaicekauskaite** (*Universitat Autònoma de Barcelona and Oceanogràfic-Avanqua, Spain; Animateux et companies, MarLab, Parc Asterix and Fox Consulting, France; Zoo Nuremberg and Zoo Duisburg, Germany; IZVG, UK; Zoomarine Italia, Italy*)
Dolphin-WET (Welfare Evaluation Tool): A protocol for the evaluation of bottlenose dolphins (*Tursiops truncatus*) welfare
11. **Bell L** (*University Centre Myerscough, UK*)
Camera traps: Do they 'trap' data?
12. **Benneth EO, GO Adeyemo and OP Ajakaye** (*University of Ibadan, Nigeria*)
The effect of varied dietary crude protein level with constant amino acid amount on egg quality characteristics of layers
13. **Bento TF, FC Resende and C Falcone** (*Brazilian Institute of Cancer – INCA, Instituto de Ciência e Tecnologia em Biomodelos – ICTB/FIOCRUZ and Instituto Israelita Albert Einstein – São Paulo, Brazil*)
Strategies during the cage change to minimize stress
14. **Bertelsen T** (*Novo Nordisk AS, Denmark*)
Culture of care in animal research
15. **Boddy ML, G Laws, D Moska, M Craven, T Boswell and TV Smulders** (*Newcastle University, UK*)
Is chronic carbon tetrachloride treatment perceived as a chronic stressor by laboratory mice?
16. **Bolton OFD, GL Charlton and ECL Bleach** (*Harper Adams University, UK*)
British farmers' perception of dairy cow-calf rearing in the UK
17. **Bouquet A, C Nicol, N Blackie, R Ferro De Godoy and M Díez-León** (*The Royal Veterinary College and Writtle University College, UK*)
Maternal influences on foal behavioural stress indicators during artificial weaning
18. **Boys RM, EL Betty, NJ Beausoleil and KA Stockin** (*Massey University, New Zealand*)
Ethology of stranded cetaceans in New Zealand: first insights for an a priori ethogram
19. **Britten NM and GP Pearce** (*University of Cambridge, UK*)
Laterality is associated with different social strategies in dairy cattle
20. **Britten NM and GP Pearce** (*University of Cambridge, UK*)
Left foot forward: left lateralised dairy cows are bolder and less neophobic
21. **Bystrova N and S Baskin** (*Russian Academy of Sciences, Russia; School of Applied Ethology, Haifa, Israel*)
Pigs are kept as pets: Revealing problematic welfare areas
22. **Carnovale F and CJC Phillips** (*University of Queensland, Australia; Estonian University of Life Sciences, Estonia*)
The effects of heat stress on sheep welfare during live export voyages from Australia to the Middle East



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23. **Charalambous R and E Narayan** (*University of Queensland, Australia*)
Mapping baseline and elevated stress in captive and wild koala (*Phascolarctos cinereus*) populations through hormone analysis in an effort to improve welfare
24. **Chen M** (*University of British Columbia, Canada*)
Cattle welfare is basically human welfare: Workers' perceptions of animal welfare on two dairies in China
25. **Chen M, MAG von Keyserlingk, S Magliocco and DM Weary** (*University of British Columbia, Canada*)
Employee management and animal care: Ethnographies of two large-scale dairy farms in China
26. **Clark B and N Mahon** (*Newcastle University and University of Hull, UK*)
Creative engagement methods for exploring public perceptions of livestock health and welfare issues
27. **Clements N, RA Saunders and R Walters** (*Hartpury University and Rabbit Welfare Association and Fund, UK*)
Not like a rabbit in the headlights: Promoting positive welfare provision in rabbit veterinary practice
28. **Craven MJ, E De Haas, D Van Grembergen, T Boswell, JH Guy, FAM Tuytens and TV Smulders** (*Newcastle University, UK; Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Belgium*)
Does footpad dermatitis induce a chronic negative welfare state in laying hens?
29. **Creagh K, JL Rault and S Hintze** (*University of Veterinary Medicine and University of Natural Resources and Life Sciences, Vienna, Austria*)
Tickled pink? The effect of long- and short-term positive human contact on pigs' judgement bias
30. **Crouch K, C Cabral, H Cramer, G Rees, D Sharp and D Barrett** (*University of Bristol and Aberystwyth University, UK*)
Exploring the use of complementary and alternative approaches on UK dairy farms
31. **Dancer AM, JK Bizley, M Díez-León and CC Burn** (*The Royal Veterinary College and University College London, UK*)
Are ferrets housed in conditions that help provide stimulation? Preliminary results from an international, cross sector questionnaire
32. **Duro S, C. Leeb and M. Mukaj** (*University of Tirana, Albania; University of Natural Resources and Life Sciences (BOKU), Austria*)
Preliminary on-farm welfare assessment of dairy goats in Albania
33. **Durosaro SO, OS Iyasere, TA Odubola, BM Ilori, VJ Oyeniran and MO Ozoje** (*Federal University of Agriculture, Abeokuta, Nigeria*)
Plumage colour genes and sexual dimorphism: Effects on welfare of Nigerian indigenous turkeys (*Meleagris gallopavo*)
34. **Eagan BH, Gordon E, Eagan B and Protopopova A** (*University of British Columbia, British Columbia Society for the Prevention of Cruelty to Animals and Independent Researcher, Canada*)
Validation of the use of computer vision technology for automatic cat behaviour monitoring in an animal shelter
35. **Eyraud C, M Valenchon, O Petit, M Prang, E Massol and O Adam** (*Université de Tours, Institut de recherche et coordination acoustique/musique and Sorbonne Université France; University of Bristol, UK*)
How to choose a music for horses?
36. **Eze, CA, KC Ogbanya, HN Okereke and CK Chukwu** (*University of Nigeria, Nsukka, Nigeria*)
Selected biochemical and electrolyte changes associated with selected food animals presented for slaughter
37. **Gábor A, N Kaszás, T Faragó, P Pérez Fraga, M Lovas and A Andics** (*Eötvös Loránd University, Hungary*)
How can your dog discriminate your voice from many others?
38. **Golightly HR, J Brown, R Bergeron, Z Poljak and TL O'Sullivan** (*University of Guelph and Prairie Swine Centre, Saskatoon, Canada*)
Comparison of injury, hydration, muscle strain and stress response in weaned piglets after long and short transport events
39. **Gorr SC, C Leeb, W Zollitsch, C Winckler and TD Parsons** (*University of Natural Resources and Life Sciences, Vienna, Austria; University of Pennsylvania, USA*)
Feeding systems for lactating sows: Effects on welfare and productivity of sows and piglets
40. **Grant C, T Boswell and TV Smulders** (*Newcastle University, UK*)
Adult hippocampal neurogenesis suppression, which is responsive to chronic stress in chickens, is associated with local inflammation
41. **Haddy E, J Brown, Z Raw, F Burden, J Kaminski and L Proops** (*University of Portsmouth and The Donkey Sanctuary, UK*)
Institutional analysis of attitudes to equid welfare initiatives
42. **Hancock A, E Narayan and C Driscoll** (*University of Queensland, Australia*)
Observations of horse welfare and horse emotional state during equine assisted interventions



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43. **Ho J, S Hussain and O Sparagano** (*City University of Hong Kong, China; University of Veterinary and Animal Sciences, Lahore, Pakistan*)
Did the COVID-19 pandemic spark a wave of global interest in pet adoption?
44. **Hou AH and AP Protopopova** (*University of British Columbia, Canada*)
Predictors of surrender and adoption of pet rats in British Columbia, Canada
45. **Hussain S, A Hussain, J Ho, OAE Sparagano and UR Zia** (*University of Veterinary and Animal Sciences, Lahore, Pakistan; City University of Hong Kong, China*)
Economic and social impacts of COVID-19 on animal welfare and dairy husbandry in Central Punjab, Pakistan
46. **Iyasere OS, VJ Oyeniran, OD Ajayi, SO Durosaro, BC Majekodunmi, M Wheto, and JO Daramola** (*Federal University of Agriculture Abeokuta, Nigeria*)
Provision of artificial light at night for a short period affects the welfare of Nigerian indigenous chickens
47. **Johnson A, A Campbell, ME Persia, and L Jacobs** (*Virginia Polytechnic Institute and State University, USA*)
The impact of housing on fear and attention bias welfare indicators in laying hens
48. **Jones CT, A Pullin, R Blatchford, M Makagon and K Horback** (*University of California, Davis, USA*)
Effect of rearing environment on the development of spatial cognition in egg-laying hens
49. **Knight A and N Light** (*University of Winchester, UK; Griffith University, Australia*)
The nutritional soundness of meat- and plant-based pet foods
50. **Kogan LR and JA Oxley** (*Colorado State University, USA; University of Liverpool, UK*)
Laser play with cats and dogs – enrichment or endangerment?
51. **Konovalovaitė K, V Ribikauskas and J Kučinskienė** (*Lithuanian University of Health Sciences Veterinary Academy, Lithuania*)
Sound therapy for stress-relief during neutering procedure for female cats
52. **Ladejobi AK, MO Wheto, OS Iyasere, SO Durosaro, V Oyeniran, DA Osinbowale, AK Osijo, AO Adebambo, OA Adebambo, SA John, OA Olafadehan, A Olayanju, Y Abdulmojeed, AO Olayinka, OO Henry, M Popoola and CI Ukem** (*Federal University of Agriculture, Abeokuta, Landmark University, Omu Aran, University of Abuja, Nassarawa State University, University of Ibadan, National Biotechnology Development Agency, Abuja and Tertiary Education Trust Fund, Abuja, Nigeria*)
Role of age and plumage colour on the level of fear in guinea fowl keet
53. **LaFollette MR, S Cloutier, C Brady, ME O’Haire and BN Gaskill** (*Purdue University and The North American 3Rs Collaborative, USA; Independent Researcher, Ottawa, Canada*)
Training people to improve animal welfare: a longitudinal trial of laboratory animal personnel and rat tickling
54. **Lamb F, A Andrukonis and A Protopopova** (*University of British Columbia, Canada; Texas Tech University, USA*)
The role of online photo backgrounds of shelter/foster dogs on the perception of sociability in dogs
55. **Langbein J, K Rosenberger, N Keil and C Nawroth** (*Leibniz Institute for Farm Animal Biology, Germany; Centre for Proper Housing of Ruminants and Pigs, Agroscope Tänikon, Switzerland*)
Goat breeds with different breeding objectives differ in their behavioural flexibility
56. **Lanning S and LR Kogan** (*Colorado State University, USA*)
Teaching virtually from home – Let Alfie play
57. **Lauderdale LK, KA Shorter, D Zhang, J Gabaldon, JD Mellen, MT Walsh, DA Granger and LJ Miller** (*Chicago Zoological Society – Brookfield Zoo, Universities of Michigan, Florida and California and Portland State University, USA*)
Animal management factors and habitat characteristics associated with activity and habitat use by bottlenose dolphins in accredited zoological environments
58. **Lerch N, F Cirulli, C Rochais, C Lesimple, E Guilbaud, L Contalbrigo, M Borgi, M Grandgeorge and M Hausberger** (*University of Rennes, France; Istituto Superiore di Sanità, Rome and Istituto Zooprofilattico Sperimentale delle Venezie, Padua, Italy*)
Interest in humans: comparisons between riding school lesson equids and assisted-intervention equids
59. **Lindner EE, KN Gingerich and EK Miller-Cushon** (*University of Florida, USA*)
Effects of early social contact on dairy calf responses to initial grouping and subsequent regrouping
60. **Luke KL, A Rawluk and T McAdie** (*Central Queensland University and University of Melbourne, Australia*)
Equine welfare and human safety - time for a new conceptualisation and approach?
61. **Ly LH, E Gordon and A Protopopova** (*University of British Columbia and British Columbia Society for the Prevention of Cruelty to Animals, Canada*)
Exploring the relationship between human social deprivation and animal surrender to shelters in British Columbia, Canada
62. **Malkani R, E Tipton, V Betton, L James and S Wensley** (*PDSA, UK*)
The PDSA animal wellbeing (PAW) report: Use of animal welfare surveillance data to promote and monitor improvements in UK pet wellbeing



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63. **Malkani R, S Wolfensohn and S Paramasivam** (*University of Surrey, UK*)
Development of the animal welfare assessment grid for dogs
64. **Manet MWE, S Kliphuis, RE Nordquist, V Goerlich-Jansson, FAM Tuytens and TB Rodenburg** (*Utrecht and Wageningen University, The Netherlands Flanders Research Institute for agriculture, fisheries and food (ILVO) and Ghent University, Belgium*)
Brave breeds and brains under the spotlight: How do genetics and light during incubation impact young laying hens stress responsivity?
65. **Marcone G, P Piirsalu, T Kaart and D Arney** (*Estonian University of Life Sciences, Estonia*)
Panting score index to assess heat stress in sheep in Estonia
66. **Matrai E, ST Kwok, HYA Chan, FM Leung, Á Pogány and M Boos** (*Ocean Park, Singapore; Eötvös Loránd University, Hungary*)
Cognitive enrichments – a bridge between animal welfare, scientific advancement, conservation and education
67. **Mee G, E Tipton, JA Oxley and C Westgarth** (*University of Liverpool and PDSA, UK*)
Owner demographic factors are associated with adequate pet rabbit housing provision in the United Kingdom
68. **Mellor EL, M Mendl, G Mason, C Davison, Y van Zeeland and IC Cuthill** (*University of Bristol, UK; University of Guelph, Canada; Utrecht University, The Netherlands*)
Validating owner-reporting of feather condition of pet psittaciformes using photographs
69. **Mesarec N, M Prevolnik Povše, D Škorjanc and J Skok** (*University of Maribor, Slovenia*)
Social networks in a spontaneously mixed group of newly weaned piglets – a preliminary results
70. **Michaels CJ, BF Gini and L Clifforde** (*Zoological Society of London, UK*)
A persistent abnormal repetitive behaviour in a false water cobra (*Hydrodynastes gigas*)
71. **Withdrawn**
72. **Montrose VT, LR Kogan and JA Oxley** (*Independent Researchers, UK; Colorado State University, USA*)
The role of social media in promoting organised dog fighting
73. **Nawroth C, K Rosenberger, N Keil and J Langbein** (*Leibniz Institute for Farm Animal Biology, Germany Agroscope Tänikon, Switzerland*)
Goats in a cognitive test battery – selection for production does not affect the interpretation of physical and social cues in goats
74. **Neave HW, CL Sumner, RJT Henwood, G Zobel, T Watson, H Thoday, K Saunders and J Webster** (*AgResearch Ltd, Ruakura and Lincoln Research Centres, RNZPCA and DairyNZ Ltd, New Zealand*)
Dairy farmers views on providing cow-calf contact in New Zealand
75. **Nogueira LB; R Palme and O Mendonça-Furtado** (*Universidade de São Paulo, Brazil; Institute of Physiology, Pathophysiology and Biophysics, Austria*)
Access to a toy or to lawn area for police dogs: effects on behaviour and stress physiology
76. **O'Brien C and J Pegg** (*University of Portsmouth and University Centre Sparsholt, UK*)
Ridden water submersion training a safer form of condition training in elite event horses?
77. **Obiasogu VO, PL Akinyemi and OJ Babayemi** (*University of Ibadan, Nigeria*)
Welfare and ethical issues on offloading of cattle in Akinyele market, Ibadan
78. **Odintsov Vaintrub M, L Cannito, C Ristori, L Lanzoni, M Chinacarini, I Fusaro, M Giammarco and G Vignola** (*University of Teramo and University G. D'Annunzio of Chieti-Pescara, Italy*)
Personality traits and experience, how it may influence equestrian s ability to assess pain in horses
79. **Ojelade OC, OS Iyasere, SO Durosaro, FF Oyebanji, I Abdulraheem and AO Akinde** (*Federal University of Agriculture, Abeokuta, Nigeria*)
Implication of being in isolation or not on the welfare of African catfish (*Clarias gariepinus*)
80. **Oyeniran VJ, OS Iyasere, SO Durosaro, DO Ajayi and JO Daramola** (*Federal University of Agriculture, Abeokuta, Nigeria*)
Responses of two age groups of Nigeria indigenous chicks to playback calls
81. **Pahuja H and E Narayan** (*University of Queensland, Australia*)
Categorizing stressors in rescued and rehabilitated Australian small reptiles in urban environment
82. **Papadaki K, GP Laliotis, P Koutsouli and I Bizelis** (*University of Athens, Greece*)
Differences in sheep vocal characteristics at weaning
83. **Paterson EA and PV Turner** (*University of Guelph, Canada; Charles River Laboratories, USA*)
Attitudes of veterinarians towards managing pain in research primates
84. **Paterson EA and PV Turner** (*University of Guelph, Canada; Charles River Laboratories, USA*)
Development of a primate welfare assessment tool for enhancing research animal care
85. **Ozkan G and M Petek** (*University of Bursa Uludag, Turkey*)
Live body weight, breast condition and welfare outcomes of a white laying hen housed in conventional cages



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86. **Petró E, B Nagy and J Topál** (*Institute of Cognitive Neuroscience and Psychology, Hungary*)
Differential effects of social and non-social distractors on the touchscreen-based task performance of dogs with normal and low social skills
87. **Polla EJ** (*Perth Zoo, Australia*)
The importance of empirically assessing zoo animal enrichment programs to benefit animal welfare
88. **Prasad S, R van Vliet and E Vasseur** (*McGill University, Canada*)
Enrichment practices for nonhuman primates (NHPS) in laboratory settings: a systematic review
89. **Ramos CP, YM Seddon, B Sullivan, L Maignel, F Fortin and J Brown** (*University of Saskatchewan, Prairie Swine Centre, Saskatoon, Canadian Centre for Swine Improvement Inc, Ottawa and Centre de Développement du Porc du Québec, Québec, Canada*)
Survey of Canadian producers on factors related to sow mortality and culling
90. **Ricci-Bonot C, D Mills, C Nicol and T Romero** (*Lincoln University and The Royal Veterinary College, UK*)
Impact of substituted companion horse during stressful situations
91. **Rodrigues MS and N Hanley** (*University of Glasgow, UK*)
Disentangling farm animal health from farm animal welfare: A study on UK consumer preferences
92. **Russell AL, LV Randall, N Bollard, J Kaler, J Gibbons and M Green** (*University of Nottingham and Agriculture and Horticulture Development Board, Kenilworth, UK*)
A behavioural study to evaluate positive welfare in dairy cows
93. **Sans ECO, MM Vale, FMC Vieira, ES Vismara and CFM Molento** (*Federal University of Paraná and Federal University of Technology (UTFPR), Paraná Brazil*)
In-barn heterogeneity of broiler chicken welfare in two industrial house designs and two seasons in southern Brazilian subtropical climate
94. **Santiago Gonzalez K, T Boswell and TV Smulders** (*Newcastle University, UK*)
Hippocampal immediate-early gene induction and HPA-axis activation in response to acute stress in chickens
95. **Schneidewind SJ, V Heizmann, A Lange and I Windschnurer** (*University of Veterinary Medicine Vienna, Austria*)
Pet rat behaviour towards caretakers relates to housing conditions and human-animal interactions
96. **Schuck-Paim C and WJ Alonso** (*The Welfare Metrics Project, Spain; Federal University of Santa Catarina, Brazil*)
Quantifying the welfare of commercial layers in different indoor housing systems and the impact of the transition to cage-free housing
97. **Seganfredo S, M De Santis, M Galardi, S Normando and L Contalbrigo** (*Istituto Zooprofilattico Sperimentale delle Venezie and University of Padova, Italy*)
Donkeys in the classroom: Investigation of donkeys' learning capabilities through an operant conditioning
98. **Smith A** (*Norecopa, Norway*)
PREPARING, CARING, SHARING and FLAGGING: The scientific and welfare benefits of increased collaboration and transparency
99. **Stamm FO, F Napolitano, CFM Molento, G De Rosa, AM Riviezzi, M Carvalhal and M Zopollatto** (*Federal University of Paraná and Faculdade de Ensino Superior da Amazônia Reunida, Redenção, Brazil; Università degli Studi della Basilicata, Potenza and Università degli Studi di Napoli Federico II, Portici, Italy*)
Opinion on the relevance of dairy buffalo welfare indicators according to experts, Brazilians and Italians respondents
100. **Stamm FO, GOPA Pinto, GC Santos, VS Soriano, CFM Molento, JL Martinez, JFG Warth and M Zopollatto** (*Federal University of Paraná, Pontifical Catholic University of Paraná (PUCPR) and Paraná Rural Development Institute, Brazil*)
Correlation between dairy buffalo neutrophil:lymphocyte ratio and selected welfare indicators
101. **Taradjian J, K Capello, D Pasqualin, A Santini, G Cunial, A Scollo, A Mannelli, P Tomao, N Vonesch and G Di Martino** (*Istituto Zooprofilattico Sperimentale delle Venezie, Swivet Research, Reggio Emilia, University of Torino and Italian Workers' Compensation Authority (INAIL), Rome, Italy*)
Can welfare-friendly practices reduce antimicrobial need in pig farming?
102. **Tedds HL, S Sneddon, R Clubb, J Ollerton, E Iskhakov and WD McCormick** (*University of Northampton, RSPCA, Independent Researcher and Hartpury University, UK*)
Classified information: What's lacking from online herpetofauna sales?
103. **Thys M, M Valckx, S Vanden Berghe, L Vandaele, B Ampe and F Tuytens** (*Flanders Research Institute for Agriculture, Fisheries and Food, Belgium*)
Effects of low stress stockmanship training on behaviour of stockpersons and dairy cows
104. **Tivey E, J Martin, V Poon, S Brown, V Bishop, V Bombail, B Nielsen, A Lawrence and S Meddle** (*University of Edinburgh and SRUC, UK; INRA, Jouy-en-Josas, France*)
Using the rat tickling model to investigate the neural correlates of positive affective states in female and male juvenile Wistar rats



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105. **Ugwu N, E Love, J Murrell, HR Whay, TG Knowles and J Hockenhull** (*University of Bristol, UK; National University of Ireland, Ireland*)
Assessment of eye blink rate changes associated with disbudding in dairy calves
106. **Ugwu N, E Love, J Murrell, HR Whay, TG Knowles and J Hockenhull** (*University of Bristol, UK; National University of Ireland, Ireland*)
Assessment of eye blink rate changes following calf restraint in a crush
107. **Ursinus WW, JH Bongers, AM Voogt and DTHM Sijm** (*Netherlands Food and Consumer Product Safety Authority, The Netherlands*)
A mobile slaughter unit can reduce cow welfare risks
108. **van Staaveren N, J Pessoa, L Boyle and JA Calderón Díaz** (*University of Guelph, Canada; Teagasc Animal and Grassland Research and Innovation Centre, Cork and University College Dublin, Ireland*)
Descriptive study of tail and ear lesions during the weaner-finisher period in a farrow-to-finish pig farm
109. **van Staaveren N, L Boyle, J Pessoa and JA Calderón Díaz** (*University of Guelph, Canada; Teagasc Animal and Grassland Research and Innovation Centre, Cork and University College Dublin, Ireland*)
Associations between damaging behaviours and their respective lesions during the weaner-finisher period in a farrow-to-finish pig farm
110. **Vandresen B and MJ Hötzel** (*Universidade Federal de Santa Catarina, Brazil*)
Brazilian dog owners attitudes towards dog euthanasia
111. **Veloso M, CS Lima, P Duarte-Coelho, C Sousa Santos and P Rachinas-Lopes** (*ISPA – Instituto Universitário and Marine and Environmental Sciences Centre, Lisbon, Portugal*)
On the impact of fin clipping in swimming patterns; a preliminary study using a model fish species
112. **Von Rentzell K, K Van Haaften, A Morris and A Protopopova** (*University of British Columbia, British Columbia SPCA and Vancouver Humane Society, Vancouver, Canada*)
Investigation into owner-reported differences between dogs born versus imported into Canada
113. **Voit M, R Merle, K Baumgartner, LV Fersen, L Reese, Me Ladwig-Wiegard, H Will, O Tallo-Parra, A Carbajal, M Lopez-Bejar and C Thöne-Reineke** (*Freie Universität Berlin and Tiergarten Nürnberg, Germany; Universitat Autònoma de Barcelona, Spain; Western University of Health Sciences, USA*)
Validation of an alternative feather sampling method to measure corticosterone
114. **Webb LE, F Marcato, EAM Bokkers, C Verwer, M Wolthuis-Fillerup, F Hoorweg, H van den Brand and CG van Reenen** (*Wageningen University & Research, The Netherlands*)
Impact of dam rearing on veal calves
115. **Whalin L, JR Webster, MAG von Keyserlingk, DM Weary and G Zobel** (*University of British Columbia, Canada; AgResearch Ltd., Ruakura Research Centre, New Zealand*)
Effects of pasture access on pre-weaned dairy calves in New Zealand
116. **Winans MM, K Cole, M Flint, and KA George** (*The Ohio State University, USA*)
Measuring the effect of transport on marine mammal welfare through salivary cortisol concentrations
117. **Woodward JL, EL Buckland, JK Murray, REP Da Costa and RA Casey** (*Dogs Trust, UK*)
Back to school: Exploring the reasons why adopters do not plan to take their recently adopted dog to training classes
118. **Woody SM, RM Santymire and KA Cronin** (*Lincoln Park Zoo, Chicago, USA*)
Exploring the use of novel tools for assessing welfare in American toads (*Anaxyrus americanus*)
119. **Yamanashi Y, K Hitoosa, N Yoshida, H Masuda, Y Sato, F Kano, Y Ikkatai and H Sakamoto** (*Kyoto City Zoo, Kyoto University, Kyoto City University of Arts, Advanced Science, Technology & Management Research Institute of Kyoto, Ryukoku University and The University of Tokyo, Japan*)
Do chimpanzees enjoy interactive arts? The potential use of interactive technologies as a form of environmental enrichment for zoo-housed chimpanzees (*Pan troglodytes*)
120. **Zinina O and S Baskin** (*Russian Academy of Sciences, Moscow, Russia; School of Applied Ethology, Haifa, Israel*)
Invading habitats of female bears with cubs: how to decrease the risk of conflict