

| AVTRW/BSAS/ASF PROGRAMME | | HEALTHY FOODS FROM HEALTHY ANIMALS, 24-25 April 2011 | | | | |
|--------------------------|-----------|--|--|--|--|--|
| Prog No | Serial No | Theatre | | | | |

| Linking animal systems and systems biology | | B52 (450) | 10:30-12:00 | Tuesday 24 April | Chair |
|--|---------------------------------|--|-------------|------------------|-------|
| INV_001 | D.J. de Koning (1,4) presenting | Integrating QTL mapping, gene-expression and next-generation sequencing to unravel a QTL affecting meat quality in chicken | 30 | invited | 10:30 |
| | 304 | D.J. de Koning, J. Nadaf, X. Liu, X. Li, E. Le Bihan-Duval, I. Dunn | | | |
| INV_002 | Forbes Brien (1) presenting | Progress towards improving neonatal lamb survival and reproductive efficiency in Australia | 30 | invited | 11:00 |
| | 308 | Forbes Brien, Geoff Hinch, Chris Shands, Andrew Thompson | | | |
| INV_003 | D Headon (1) presenting | Using systems biology to understand feather patterns in poultry | 30 | invited | 11:30 |
| | 314 | D Headon, K Wells, K Painter, A Cahaner, Y Hadad, D Ben-Avraham, J Hillel | | | |

| AVTRW Lecture | | B52 (450) | 13:30-14:00 | Tuesday 24 April | Chair | Tim King |
|---------------|--------------------|---|-------------|------------------|-------|----------|
| INV_004 | Prof Natalie Waran | Can we sustain welfare standards in a food hungry world | 60 | invited | 13:30 | |
| | | Prof Natalie Waran | | | | |

| Animal Welfare and Behaviour (AVTRW) | | B52 (450) | 14:00-15:20 | Tuesday 24 April | Chair | Prof Natalie Waran |
|--------------------------------------|---------------------------------|---|-------------|------------------|-------|--------------------|
| 1 | Priya Motupalli (1) presenting | The effect of herbage allowance on day-time preference of dairy cows to be indoors or at pasture | 10 | oral | 14:00 | |
| | 218 | Priya Motupalli, S.M. Rutter, Emma Bleach, Liam Sinclair | | | | |
| 2 | David Humphries (1) presenting | The behaviour of continuously housed cows given free choice to access an outside environment | 10 | oral | 14:10 | |
| | 220 | David Humphries | | | | |
| 3 | Jill MacKay (1,2) presenting | What do handling temperament tests tell us about home pen activity in beef steers? | 10 | oral | 14:20 | |
| | 157 | Jill MacKay, Simon Turner, Jimmy Hyslop, Marie Haskell | | | | |
| 4 | O. Szyszka (1) presenting | The temporal changes in behaviour of beef bulls during exposure to <i>Ostertagia ostertagi</i> and subsequent recovery from infection | 10 | oral | 14:30 | |
| | 44 | O. Szyszka, B.J. Tolkamp, S.A. Edwards, I. Kyriazakis | | | | |
| 5 | Peter Windsor (1) presenting | The topical anaesthesia welfare revolution on wool sheep farms in Australia: can xylazine assist? | 10 | oral | 14:40 | |
| | 11 | Peter Windsor, Natascha Mikhaleva, Crystal Espinoza, Sabrina Lomax | | | | |
| 6 | Kayleigh Langdon (1) presenting | The effect of radio on the welfare and behaviour of sows and their piglets in farrowing crates | 10 | oral | 14:50 | |
| | 226 | Kayleigh Langdon, Jonathan Amory | | | | |

| | | | | | | |
|---|------------------------------|-----|---|----|------|-------|
| 7 | S A Edwards (1) presenting | 223 | Evaluation of nest design and nesting substrate options for the PigSAFE free farrowing pen S A Edwards, M Brett, Y M Seddon, D Ross, E M Baxter | 10 | oral | 15:00 |
| 8 | S Stavrakakis (1) presenting | 236 | Assessment of kinematic gait characteristics of pigs reared on three different floor types with a single-plane stereophotogrammetric motion capture method S Stavrakakis, JH Guy, O Warlow, SEM Lawson, GR Johnson, SA Edwards | 10 | oral | 15:10 |

| Climate Change and Environment | | | B52 (450) | 16:00-17:55 | Tuesday 24 April | Chair | Prof Nigel Scollan |
|--------------------------------|-------------------------------|-----|---|-------------|------------------|-------|--------------------|
| 9 | C K Reynolds (1) presenting | 156 | Effect of forage type and an extruded linseed supplement on methane production by lactating dairy cows C K Reynolds, D J Humphries, K M Livingstone, K E Kliem, D I Givens | 15 | oral | 16:00 | |
| 10 | D W Ross (1) presenting | 266 | Development and preliminary testing of an animal mounted sensor system to estimate methane emission from cattle D W Ross, M Nath, J Rooke, C A Duthie, C Michie, L Deans, D Wills | 15 | oral | 16:15 | |
| 11 | Robert Herd (1) presenting | 137 | Genetic improvement of Australian Angus cattle for lower methane emission Robert Herd, Simon Bird, Kath Donoghue, Roger Hegarty, Paul Arthur | 15 | oral | 16:30 | |
| 12 | J.G.M. Houdijk (1) presenting | 115 | Gastrointestinal parasitism per se has no effect on methane output by lactating ewes J.G.M. Houdijk, B.J. Tolkamp, J.A. Rooke, M.R. Hutchings | 15 | oral | 16:45 | |
| 13 | Angel Ramirez (1) presenting | 16 | Greenhouse gas (GHG) life-cycle assessment of mammalian rendered products in the UK Angel Ramirez, Andrea Humphries, Stephen Woodgate, Robert Wilkinson | 15 | oral | 17:00 | |
| 14 | Mike Wilkinson (1) presenting | 70 | Ruminant feed production in the United Kingdom in 1990 and 2010 Mike Wilkinson, Alison Wray | 15 | oral | 17:15 | |
| 15 | CFE Topp (1) presenting | 132 | Quantifying the environmental benefits of grown protein sources as alternatives to soyabean meal in pig production through life cycle assessment CFE Topp, JGM Houdijk, D Tarsitano, BJ Tolkamp, I Kyriazaki | 15 | oral | 17:30 | |
| 16 | Mike Wilkinson (2) presenting | 65 | Statistical indicators of livestock efficiency related to greenhouse gas emissions Paul McDonnell, Alison Wray, Mike Wilkinson | 5 | short oral | 17:45 | |

| | | | | | |
|----|--|---|---|------------|-------|
| 17 | BERNARDO BERENCHTEIN (1) presenting 244 | Does finishing pigs emits enteric methane like sheep? BERNARDO BERENCHTEIN, ADIBE LUIZ ABDALLA, PATRICIA PIMENTEL DOS SANTOS, ALINE CAMPECHE, EDGARD FRANCO GOMES, ADIBE LUIZ ABDALLA FILHO, REGINA PELEGRINA, APARECIDO CASTILHO, TIAGO DO PRADO PAIM, MAICON SBARDELLA, HELDER LOUVANDINI, JOAQUIM EVERALDO DO | 5 | short oral | 17:50 |
|----|--|---|---|------------|-------|

| WPSA Gordon Memorial Lecture | | | B52 (450) | 17:15-18:15 | Tuesday 24 April | Chair |
|------------------------------|-----------------|---|-----------|-------------|------------------|-------|
| INV_005 | Dr Ilaria Capua | Avian influenza: A game changer in international public health and policies | 60 | invited | 17:15 | |
| | invited_005 | Dr Ilaria Capua | | | | |

| Meat Quality - The Lynne Dawson Session | | | LT3 (300) | 10:30-12:15 | Tuesday 24 April | Chair |
|---|---------------------------------------|---|-----------|-------------|------------------|-------|
| 18 | N.R. Lambe (1) presenting 95 | Prediction of intramuscular fat from beef ultrasound scans C Glasbey, N.R. Lambe, D.W. Ross, I Richardson, E.A. Navajas, J.J. Hyslop, R. Roehe | 15 | oral | 10:30 | |
| 19 | A P Moloney (1) presenting 158 | Compensatory growth in early and late maturing steers: Effects on beef colour and sensory characteristics S M Keady, S M Waters, R Hamill, P G Dunne, M G Keane, R I Richardson, D A Kenny, A P Moloney | 15 | oral | 10:45 | |
| 20 | C L Donaldson (1,2) presenting 164 | Effect of the Texel muscling quantitative trait locus (TM-QTL) on spine characteristics in purebred Texel lambs C L Donaldson, N R Lambe, J M Macfarlane, C A Maltin, S A Knott, L Bunger | 15 | oral | 11:00 | |
| 21 | M Mareko (1) presenting 228 | Changes in caspase 3/7 activity and shear force during post-mortem conditioning of the <i>longissimus</i> muscle of growing gilts after 7 days treatment with β -adrenergic agonist or growth hormone M Mareko, K Ryan, D Brown, J Brameld, T Parr | 15 | oral | 11:15 | |
| 22 | C Craigie (1,2) presenting 93 | Diet and gender effects on lamb meat quality C Craigie, D Ross, I Richardson, C Maltin, R Roehe, S Morris, J Houdijk | 15 | oral | 11:30 | |
| 23 | Gavin White (1) presenting 100 | Nutritional value of diets for growing / finishing pigs containing high levels of home grown legumes compared with one based on soyabean meal 2 Carcass quality Gavin White, Lesley Smith, Denis Homer, Julian Wiseman, Jos Houdijk, Ilias Kyriazakis | 5 | short oral | 11:45 | |
| 24 | L.A. Smith (1) presenting 147 | Effects of using peas and faba beans to replace soyabean meal on carcass quality in pigs L.A. Smith, J.G.M Houdijk, D Homer, I Kyriazakis | 5 | short oral | 11:50 | |

| | | | | | |
|----|------------------------------------|---|---|------------|-------|
| 25 | Muhammad Jaspal (1) presenting | Effect of packaging and ageing times on shelf life and quality of steaks from commercial beef striploin | 5 | short oral | 11:55 |
| | 82 | Muhammad Jaspal, Francis Whittington, Jon DeRoeck, Ian Richardson | | | |
| 26 | Francis Whittington (1) presenting | Comparison of three winter finishing systems on vitamin E content and shelf life in lamb leg meat | 5 | short oral | 12:00 |
| | 83 | Francis Whittington, Liz Genever, Kathy Hallett, Ian Richardson | | | |
| 27 | S Sagataram (1) presenting | Incorporation of chlorophyll based markers into lamb finishing rations to aid visualization of faecal contamination in the abattoir- a spectrometric approach | 5 | short oral | 12:05 |
| | 57 | S Sagataram, D Leemans, V Theobald, H Fleming, A Gay, M.R.F Lee | | | |
| 28 | Funmilayo Ogunleke (1) presenting | Microbial load of cheese produced from differently processed White Fulani cow milk | 5 | short oral | 12:10 |
| | 58 | Funmilayo Ogunleke, Japhet Adeneye, Akintunde Akinsoyinu | | | |

| Pigs 1 | | | LT3 (300) | 14:00-15:30 | Tuesday 24 April | Chair | Dr Paul Toplis |
|---------------|----------------------------------|--|------------------|--------------------|-------------------------|--------------|-----------------------|
| 29 | Amy Taylor (1) presenting | The effects of genotype and dietary lysine concentration on growth performance of weaner pigs. | 15 | oral | 14:00 | | |
| | 259 | Amy Taylor, Helen Miller, Paul Toplis, Ian Wellock | | | | | |
| 30 | V. Symeou (1) presenting | Prediction of digestible phosphorus and calcium retention and requirements for different pig genotypes | 15 | oral | 14:15 | | |
| | 149 | V. Symeou, I. Leinonen, S. Edwards, I. Kyriazakis | | | | | |
| 31 | Elizabeth Magowan (1) presenting | The effect of particle size and feed form on finishing pig performance | 15 | oral | 14:30 | | |
| | 116 | Elizabeth Magowan, Elizabeth Ball, Violet Beattie, Wallace Henry, Kelvin McCracken, Fred Gordon, Alan Thompson, Raymond Bradford | | | | | |
| 32 | Peter Cottney (1,2) presenting | Lifetime performance of gilts bred on first to fifth observed oestrus | 15 | oral | 14:45 | | |
| | 68 | Peter Cottney, Elizabeth Magowan, Elizabeth Ball, Alan Gordon | | | | | |
| 33 | A LeMoine (1) presenting | Changes in commercial stud boar semen abnormality types throughout the year | 15 | oral | 15:00 | | |
| | 269 | A LeMoine, H M Miller | | | | | |
| 34 | Elizabeth Magowan (1) presenting | Effectiveness of starter diets pre and post weaning on lifetime pig performance | 5 | short oral | 15:15 | | |
| | 114 | Elizabeth Magowan, Elizabeth Ball | | | | | |
| 35 | Peter Cottney (1,2) presenting | The effect of <i>ad libitum</i> feed post mating on the reproductive performance of gilts | 5 | short oral | 15:20 | | |
| | 71 | Peter Cottney, Elizabeth Magowan, Elizabeth Ball, Alan Gordon, Wallace Henry | | | | | |

| | | | | | |
|----|----------------------------------|---|---|------------|-------|
| 36 | Elizabeth Magowan (1) presenting | Effect of creep diet pre weaning and starter diet allowance post weaning on pig gut structure | 5 | short oral | 15:25 |
| | 113 | Elizabeth Magowan, Elizabeth Ball | | | |

| Dairy 1 | | | LT3 (300) | 16:00-17:50 | Tuesday 24 April | Chair | Jennifer Flockhart |
|---------|-----------------------------------|---|-----------|-------------|------------------|-------|--------------------|
| 37 | Mairead Bermingham (1) presenting | A genome-wide association study of bovine tuberculosis resistance in the Northern Ireland Holstein-Friesian dairy cattle population | 15 | oral | 16:00 | | |
| | 168 | Mairead Bermingham, Stephen Bishop, John Woolliams, Adrian Allen, Stewart McBride, David Wright, Jon Ryder, Robin Skuce, Stanley McDowell, Elizabeth Glass | | | | | |
| 38 | E Wall (2) presenting | Relationship between immune profile traits and functional traits in dairy cattle | 15 | oral | 16:15 | | |
| | 143 | G Banos, E Wall, M P Coffey, S Gillespie, G Russell, T McNeilly | | | | | |
| 39 | T C Pritchard (1) presenting | Characterising heifer survival in UK dairy herds | 15 | oral | 16:30 | | |
| | 171 | T C Pritchard, M P Coffey, R Mrode, E Wall | | | | | |
| 40 | Sophie Eaglen (1,2) presenting | How direct and maternal gestation length genetically relate to fertility, milk production, type and lifespan in UK Holstein-Friesian heifers | 15 | oral | 16:45 | | |
| | 162 | Sophie Eaglen, Mike Coffey, John Woolliams, Eileen Wall | | | | | |
| 41 | S. C. Archer (1,2) presenting | Association of herd size and seasonality, with somatic cell count in Irish and UK dairy cows | 15 | oral | 17:00 | | |
| | 43 | S. C. Archer, F. Buckley, F. Mc Coy, W. Wapenaar, M. J. Green | | | | | |
| 42 | Isabelle Dufrasne (1) presenting | Effects of dietary incorporation of roughages and barley produced with selenium enriched fertilizers on the selenium content in milk and milk products | 15 | oral | 17:15 | | |
| | 207 | Isabelle Dufrasne, Vincent Robaye, Louis Istasse, Jean-Luc Hornick | | | | | |
| 43 | Neville Suttle (1) presenting | Use of pre-treatment with parenteral tetrathiomolybdate and fractional changes in liver copper concentration to improve the assessment of copper supplements by hepatic copper repletion in cattle. | 5 | short oral | 17:20 | | |
| | 176 | Neville Suttle | | | | | |
| 44 | Isabelle Dufrasne (1) presenting | Dairy cows milked by an automatic milking system located at pasture: practical aspects on technical uses of the paddocks | 5 | short oral | 17:25 | | |
| | 196 | Isabelle Dufrasne, Vincent Robaye, Louis Istasse, Jean-Luc Hornick | | | | | |
| 45 | zaza navakz (1) presenting | Animal performance and economic implications of Holstein-Friesian, Jersey and Jersey \times Holstein-Friesian cows under seasonal pasture based systems | 5 | short oral | 17:30 | | |
| | 249 | zaza navakz | | | | | |

| | | | | | | |
|----|----------------------------------|-----|---|---|------------|-------|
| 46 | S P Marsh (1) presenting | 77 | Alkagrain for finishing beef cattle S P Marsh, J Brown, M Graham | 5 | short oral | 17:35 |
| 47 | J. J. Hyslop (1) presenting | 268 | An assessment of alternative test length periods when measuring liveweight change in finishing cattle during feed efficiency studies J. J. Hyslop, C. A. Duthie, D. W. Ross, J. A. Rooke, R. Roehe | 5 | short oral | 17:40 |
| 48 | Najafgholi Dabiri (1) presenting | 208 | Effect of different level of yeast probiotic and prebiotic and their symbiotic interaction on Holstein female suckling calves Najafgholi Dabiri, Ali Mahdavi, Iraj Nowroozi, Mehdi Dehghan Banadaki, Fatemeh Alemi | 5 | short oral | 17:45 |

| | | | | | | | | |
|-----------------|-----|-------------|--|-----------------|--------------------|-------------------------|--------------|------------------------|
| BSAS AGM | | | | LT2(200) | 18:30-19:30 | Tuesday 24 April | Chair | Prof D I Givens |
| | AGM | invited_006 | | | 60 | 18:30 | | |

| | | | | | | | | |
|---------------------------------------|--------------------------------|-------------|--|------------------|--------------------|-------------------------|--------------|-----------------------|
| Pig Health and Disease (AVTRW) | | | | A25 (120) | 10:30-12:10 | Tuesday 24 April | Chair | Dr Mick Bailey |
| INV_006 | Prof Dirk Werling | invited_007 | The under-estimated risks of PMWS Prof Dirk Werling | 20 | invited | 10:30 | | |
| INV_007 | Dan Tucker | invited_008 | A multivalent vaccine and single platform diagnostic for respiratory disease in pigs: progress so far Dan Tucker | 20 | invited | 10:50 | | |
| 49 | Hernan Fainberg (1) presenting | 286 | Changes in hepatic lipid metabolism during early postnatal life: an explanation for the reduction in neonatal mortality in Meishan piglets? Katherine Bodley, Hernan Fainberg, Li Dongfang, Jaume Bacardit, Frank Wessely, David Gardner, Alison Mostyn | 15 | oral | 11:10 | | |
| 50 | J.G.M. Houdijk (1) presenting | 172 | Effects of spray-dried porcine plasma on weaner pig performance and resilience to sub-clinical post weaning colibacillosis J.G.M. Houdijk, C.A. van Vuure | 15 | oral | 11:25 | | |
| 51 | H Bracamontes-Hernández (1) | 238 | Dietary conjugated linoleic acid (CLA) and its effects on proliferation and production of interleukin 2 (IL-2) of peripheral blood mononuclear cells in pigs infected with porcine respiratory and reproductive syndrome virus (PRRSv). H Bracamontes-Hernández, JR Peralta-Quintana, SY Moya-Camarena, J Hernandez, A Pinelli-Saavedra | 15 | oral | 11:40 | | |
| 52 | SL Douglas (1) presenting | 213 | Identification of risk factors associated with poor growth performance in pigs SL Douglas, SA Edwards, PW Knap, E Sutcliffe, I Kyriazakis | 15 | oral | 11:55 | | |

| Beef/Pigs/Feed/others | | | A24 (60) | 13:30 13:57 | Tuesday 24 April | Chair |
|------------------------------|--------------------------------|---|-----------------|--------------------|-------------------------|--------------|
| 53 | Gavin White (1) presenting | Nutritional value of diets for growing / finishing pigs containing high levels of home grown legumes compared with one based on soyabean meal 1. Growth performance | 3 | | Highlights 13:30 | |
| | 99 | Gavin White, Julian Wiseman, Lesley Smith, Jos Houdijk, Ilias Kyriazakis | | | | |
| 54 | F. H. Reynolds (1) presenting | Short Term Feeding Behaviour of Newly Weaned Piglets | 3 | | Highlights 13:33 | |
| | 256 | F. H. Reynolds, J. M. Forbes, H. M. Miller | | | | |
| 55 | K Ryan (1) presenting | Effects of 1 week treatment with β -adrenergic agonist on growth hormone on the growth and feed conversion efficiency of growing gilts | 3 | | Highlights 13:36 | |
| | 224 | K Ryan, M Mareko, D Brown, T Parr, J Brameld | | | | |
| 56 | M. Shirali (1,4) presenting | Estimation of residual energy intake and its genetic background during the growing period in commercial pigs | 3 | | Highlights 13:39 | |
| | 231 | M. Shirali, C. Duthie, A. Doeschl-Wilson, P.W. Knap, E. Kanis, J.A.M. van Arendonk, R. Roehe | | | | |
| 57 | S C Mansbridge (1) presenting | An assessment of straw intake by acid insoluble markers in commercial pigs housed in straw based systems | 3 | | Highlights 13:42 | |
| | 108 | S C Mansbridge, A H Stewart | | | | |
| 58 | Sarah Wilson (1) presenting | Effects of growth rate on meat quality traits in finisher pigs | 3 | | Highlights 13:45 | |
| | 263 | Sarah Wilson, Helen Miller, Amy Taylor | | | | |
| 59 | S KAMIHIRO (1) presenting | Fatty acid composition of retail organic and non-organic beef in North East England | 3 | | Highlights 13:48 | |
| | 61 | S KAMIHIRO, S STERGIADIS, C LEIFERT, MD EYRE, G BUTLER | | | | |
| 60 | Muhammad Jaspal (1) presenting | Effect of meat ageing and varying the gas headspace to meat ratio on the oxidative shelf life of beef loin steaks packed in modified atmosphere packs | 3 | | Highlights 13:51 | |
| | 267 | Muhammad Jaspal, Francis Whittington, Kevin Gibson, Ian Richardson | | | | |
| 61 | K Moore (1) presenting | The Implementation of Docility and Scrotal Circumference genetic evaluations for British Limousin cattle | 3 | | Highlights 13:54 | |
| | 144 | K Moore, R Mrode | | | | |
| Pigs 2 | | | A24 (60) | 16:00-17:30 | Tuesday 24 April | Chair |
| 62 | Gavin White (1) presenting | Using home-grown peas and beans to replace soyabean meal does not impair nitrogen balance in pigs. | 15 | | oral 16:00 | |
| | 101 | Gavin White, Julian Wiseman | | | | |
| 63 | L.A Smith (1) presenting | Effects of increasing dietary inclusion levels of peas and faba beans to replace soybean meal on pig growth performance | 15 | | oral 16:15 | |
| | 122 | L.A Smith, J.G.M Houdijk, I Kyriazakis | | | | |

| | | | | | | |
|----|-------------------------------------|-----|---|----|------------|-------|
| 64 | L Bunger (1) presenting | 163 | Effects of low protein diets on performance and fat deposition in pigs L Bunger, N Lambe, G Walling, H Whitney, S Jagger, P Fullarton, N Penlington, C Maltin, J Bayntun, J Wood | 15 | oral | 16:30 |
| 65 | C. Walk (1) presenting | 181 | Holo-analysis to determine the factors influencing the efficacy of an enhanced Escherichia coli phytase on average daily gain of pigs C. Walk, T. Santos, M. Bedford, P. Wilcock | 15 | oral | 16:45 |
| 66 | D Brown (1) presenting | 222 | Beta-adrenergic agonists and growth hormone have differential effects on muscle fibre composition in growing gilts D Brown, K Ryan, Z Daniel, M Mareko, T Parr, J Brameld | 5 | short oral | 17:00 |
| 67 | C. Lückstädt (2) presenting | 201 | Effects of dietary potassium diformate in sows during pre-farrowing till weaning on piglet performance and health - a practical approach in Germany L. Durst, P. Theobald, C. Lückstädt | 5 | short oral | 17:05 |
| 68 | E.O Akinfala (1) presenting | 22 | Utilization of agro-industrial by products by growing pigs in the tropics E.O Akinfala, O Olagbaju, A.C Odewumi | 5 | short oral | 17:10 |
| 69 | A.O.K. Adesehinwa (1) presenting | 178 | Effects of different additives in diets of growing pigs containing high levels of palm kernel cake and brewers dried grain in sub-humid tropics A.O.K. Adesehinwa, Osaro Mgbere, B.A. Makanjuola, O.O. Obi, T. Lawal, Y.A. Popoola | 5 | short oral | 17:15 |
| 70 | Oluwagbemiga Adeleye (1) presenting | 234 | Effects of maternal supplementation with essential fatty acid (Docosahexanoic acid) on neonatal piglet metabolism and vitality Oluwagbemiga Adeleye, Mark Brett, Darren Blomfield, Jonathan Guy, Sandra Edwards | 10 | short oral | 17:20 |

| Ruminant/Sheep/Goats | | | A26 (60) | 14:00-14:33 | Tuesday 24 April | Chair | Dr Sam Hoste |
|----------------------|-------------------------------------|-----|---|-------------|------------------|-------|--------------|
| 71 | M P Coffey (2) presenting | 106 | A platform for genotype imputation and discovery of Mendelian inconsistencies G Banos, M P Coffey, R Mrode | 3 | Highlights | 14:00 | |
| 72 | H. Mohammadi (1) presenting | 4 | Estimation of genetic and environment trend for Birth weight and weaning weight in Makoei sheep H. Mohammadi, M. Moradi Shahrehabak, H. Moradi Shahrehabak, A. H. Khetabadi Farahani | 3 | Highlights | 14:03 | |
| 73 | Michael Orford (1) presenting | 69 | Development of a cost effective direct DNA sequencing method for rapid SNP detection and genotyping of candidate genes Michael Orford, Despoina Miltiadou | 3 | Highlights | 14:06 | |
| 74 | Abdelfettah Shirif (1,2) presenting | 25 | The effect of soaking and urea treatments of chopped wheat straw on live weight of wether sheep Abdelfettah Shirif, A. S Chaudhry, A Younger | 3 | Highlights | 14:09 | |

| | | | | | |
|----|---|---|---|------------|-------|
| 75 | O. J Oyedele (1) presenting | Haematological and carcass characteristics of West African Dwarf goats fed with Moringa oleifera and Gliricidia sepium. | 3 | Highlights | 14:12 |
| | 155 | O. J Oyedele | | | |
| 76 | Samantha J. Ward (1) presenting | Fatter lambs from fostered mums: the benefits of fostering lambs on daily weight gain | 3 | Highlights | 14:15 |
| | 165 | Samantha J. Ward, Wanda McCormick, Guiomar Liste | | | |
| 77 | Eleri Price (1) presenting | Variation in live weight, ultrasonic back-fat and computerised tomography data within a sample of Abermax ram lambs | 3 | Highlights | 14:18 |
| | 278 | Eleri Price, Janet Roden, William Haresign, Julie Finch, Denis Larkin, Graham Gardner, Nigel Scollan | | | |
| 78 | TWJ Keady (1) presenting | Effect of concentrate feed level and protein source on the performance of ewes in late pregnancy and the performance of their progeny | 3 | Highlights | 14:21 |
| | 125 | TWJ Keady, JP Hanrahan | | | |
| 79 | E.L.K. Osafo (1) presenting | Broussonetia papyrifera leaves as supplement improves total feed intake of djallonke rams offered napier grass | 3 | Highlights | 14:24 |
| | 255 | E.L.K. Osafo, O. Alhassan, W. Oduro | | | |
| 80 | V ATTOH-KOTOKU (1) presenting | Supplementation of Moringa oleifera and dried Samanea saman pods on intake, N-digestibility and N-balance of Napier grass basal diet in Djallonke sheep | 3 | Highlights | 14:27 |
| | 271 | V ATTOH-KOTOKU, ELK OSAFO, E ADDEY | | | |
| 81 | Abdelfettah Mohamed Shirif (1,2) presenting | Upgrading the in-vitro dry matter degradability of wheat straw internodes by using soaking, temperature and time treatments | 3 | Highlights | 14:30 |
| | 40 | Abdelfettah Mohamed Shirif, A Chaudhry, K Benl Hage | | | |

| Welcome Research (AVTRW) | | | A26 (60) | 10:30-12:00 | Tuesday 24 April | Chair | Prof Peter Clegg |
|--------------------------|----------------------------|--|----------|-------------|------------------|-------|------------------|
| 82 | M.J Peffers (1) presenting | Comprehensive profiling and absolute quantification of equine cartilage extracellular matrix | 15 | oral | 10:30 | | |
| | 47 | M.J Peffers, R. Beynon, D. Thornton, P.D Clegg | | | | | |
| 83 | L B Meakin (1) presenting | Can exercise enhance bone's adaptive response to artificial mechanical loading | 15 | oral | 10:45 | | |
| | 202 | L B Meakin, T Sugiyama, G L Galea, L E Lanyon, J S Price | | | | | |
| 84 | G. L. Galea (1) presenting | Oestrogen receptor α signalling mediates the down-regulation of <i>Sost</i> expression by mechanical strain in human osteoblastic cells | 15 | oral | 11:00 | | |
| | 142 | G. L. Galea, L. B. Meakin, A. Sunters, L. E. Lanyon, J. S. Price | | | | | |
| 85 | RL Terry (1) presenting | Assessing therapeutic interventions in the mdx mouse using in vivo muscle physiology | 15 | oral | 11:15 | | |
| | 118 | RL Terry, DJ Wells | | | | | |

| | | | | | | |
|----|---------------------------------|----|--|----|------|-------|
| 86 | H M Higgins (1) presenting | 84 | Complex issues surround the use of hormones to improve dairy cow fertility: an insight into veterinary practitioners' attitudes and prescribing practices H M Higgins, R F Smith, M J Green | 15 | oral | 11:30 |
| 87 | C Chintoan-Uta (2,1) presenting | 15 | Deer can become infected with bovine and ovine gastrointestinal nematodes and can transmit anthelmintic resistant nematodes to cattle and sheep C Chintoan-Uta, ER Morgan, P Skuce, K Stafford, C Au, E Bevan, GC Coles | 15 | oral | 11:45 |

| Diagnostics | | | A24 (60) | 16:00-16:45 | Tuesday 24 April | Chair | Dr Matt Denwood |
|--------------------|--|--|-----------------|--------------------|-------------------------|--------------|------------------------|
|--------------------|--|--|-----------------|--------------------|-------------------------|--------------|------------------------|

| | | | | | | |
|----|-------------------------------|-----|--|----|------|-------|
| 88 | M Braceland (1) presenting | 282 | A Proteomic Approach For Biomarker Detection of Pancreas Disease (PD) in Atlantic salmon (Salmoøalar) M Braceland, RJS Burchmore, R Bickerdike, D Cockerill, PD Eckersall | 15 | oral | 16:00 |
| 89 | Victoria Smyth (1) presenting | 284 | Longitudinal surveys of astrovirus infections of chickens: rapid molecular diagnosis by real time reverse transcription polymerase chain reaction Victoria Smyth, Heather Jewhurst, Donna Wilkinson, Alan Gordon, Daniel Todd | 15 | oral | 16:15 |
| 90 | M.S. Rocchi (1) presenting | 281 | Evaluation of immature thrombocytes (reticulated platelets) in young calves' peripheral blood M.S. Rocchi, E. Melzi, E. Laming, I. McKendrick, C.R. Bell, K. Willoughby | 15 | oral | 16:30 |

| Hammond Lecture | | | B52 (450) | 09:00-10:00 | Wednesday 25 April | Chair | Dr D I Givens |
|------------------------|--|--|------------------|--------------------|---------------------------|--------------|----------------------|
|------------------------|--|--|------------------|--------------------|---------------------------|--------------|----------------------|

| | | | | | | |
|---------|-------------------------------|-----|---|----|---------|------|
| INV_008 | Michael Gibney (1) presenting | 303 | Role of animal-derived foods in an obesogenic environment Michael Gibney | 60 | invited | 9:00 |
|---------|-------------------------------|-----|---|----|---------|------|

| President's Session | | | B52 (450) | 10:30-12:30 | Wednesday 25 April | Chair | Dr D I Givens |
|----------------------------|--|--|------------------|--------------------|---------------------------|--------------|----------------------|
|----------------------------|--|--|------------------|--------------------|---------------------------|--------------|----------------------|

| | | | | | | |
|---------|--------------------------------|-------------|--|----|---------|-------|
| INV_009 | Anestis Dougkas (1) presenting | 289 | Can milk and dairy products be an aid to body mass index control? Anestis Dougkas | 30 | invited | 10:30 |
| INV_010 | Prof Peter Elwood | invited_013 | Dairy Products and Vascular Disease Prevention: Evidence from prospective studies Prof Peter Elwood | 30 | invited | 11:00 |
| INV_011 | Carrie Ruxton (1) presenting | 305 | The benefits and limitations of fish in the diet Carrie Ruxton | 30 | invited | 11:30 |
| INV_012 | Laura Wyness (1) presenting | 291 | Red meat in the diet: is it as bad as we have been told? Laura Wyness | 30 | invited | 12:00 |

| Complementary applied, strategic and basic research to improve neonatal survival | | | B52 (450) | 13:30-15:10 | Wednesday 25 April | Chair | Dr Cheryl Ashworth |
|---|--------------------------------|---|------------------|--------------------|---------------------------|--------------|---------------------------|
| INV_013 | Prof Sandra Edwards | Prevalance of neonatal mortality in mammalian livestock and what the key issues are (title to be decided) | 25 | invited | 13:30 | | |
| | invited_016 | Prof Sandra Edwards | | | | | |
| INV_014 | Michael Symonds (1) presenting | Maternal diet during pregnancy and neonatal survival - new insights into brown adipose tissue (BAT) regulation and function | 25 | invited | 13:55 | | |
| | 317 | Michael Symonds, Helen Budge | | | | | |
| INV_015 | Cathy Dwyer (1) presenting | Mother-offspring behaviour and neonatal survival: From neuroendocrinology to practical applications | 25 | invited | 14:20 | | |
| | 312 | Cathy Dwyer | | | | | |
| INV_016 | Elodie Merlot (1) presenting | Prenatal stress, immunity, and neonatal health in farm animals | 25 | invited | 14:45 | | |
| | 298 | Elodie Merlot | | | | | |

| Dairy 2 | | | B52 (450) | 15:30:16:55 | Wednesday 25 April | Chair | |
|----------------|--------------------------------|--|------------------|--------------------|---------------------------|--------------|--|
| 91 | K. J. Hart (1) presenting | Effect of grass silage to maize silage ratio and level of starch in the concentrate on the performance and methane production of lactating dairy cows | 15 | oral | 15:30 | | |
| | 209 | K. J. Hart, J. A. Huntington, R.G. Wilkinson, C.G. Bartram, L. A. Sinclair | | | | | |
| 92 | M. Ali (1,2) presenting | Postruminal degradation of crude protein, neutral detergent fiber and starch of maize and grass silages in Holstein Friesian dairy cows | 15 | oral | 15:45 | | |
| | 51 | M. Ali, M. R. Weisbjerg, J. W. Cone, G. van Duinkerken, M.C. Blok, M. Bruinenberg, W. H. Hendriks | | | | | |
| 93 | Kirsty E. Kliem (1) presenting | Effect of calcium salts of either palm fatty acid distillate or a palmitic acid-rich supplement on the fatty acid profile of cows' milk | 15 | oral | 16:00 | | |
| | 248 | Kirsty E. Kliem, Richard M. Kirkland, D. Ian Givens, David J. Humphries | | | | | |
| 94 | S STERGIADIS (1) presenting | Impact of dietary linseed and rapeseed supplementation on milk fatty acid composition from housed cows under organic and conventional management systems | 15 | oral | 16:15 | | |
| | 59 | S STERGIADIS, C LEIFERT, C J SEAL, M D EYRE, G BUTLER | | | | | |
| 95 | K M Livingstone (1) presenting | Effect of forage type and extruded linseed supplementation on milk fatty acid composition | 5 | short oral | 16:30 | | |
| | 123 | K M Livingstone, K E Kliem, D I Givens, C K Reynolds | | | | | |
| 96 | Nicola Blackie (1) presenting | Impact of flavoured water on the performance and health of Jersey calves from birth through weaning | 5 | short oral | 16:35 | | |
| | 232 | Sophie-Marie Howe, Nicola Blackie | | | | | |
| 97 | S P Marsh (1) presenting | Effect of once or twice per day milk replacer feeding systems on performance of purchased dairy-bred beef calves to 12 weeks | 5 | short oral | 16:40 | | |
| | 78 | S P Marsh, T R Rees, C L Faulkner | | | | | |

| | | | | | | |
|----|----------------------------------|----|--|---|------------|-------|
| 98 | S P Marsh (1) presenting | | Effect of feeding a Yeast Culture (Diamond V XP_{LS}) on the performance of artificially reared dairy-bred bull calves | 5 | short oral | 16:45 |
| | | 79 | S P Marsh, R Stanbury, H Cromie | | | |
| 99 | M. H. Fathi Nasri (1) presenting | | Performance of Holstein calves fed starter containing different levels of fiber and with or without feeding alfalfa hay | 5 | short oral | 16:50 |
| | | 39 | A. Salarinia, M. H. Fathi Nasri, H. Farhangfar, H. Naeimipour, V. Kardan Moghaddam, P. Rowlinson | | | |

| Advanced Training Partnerships | | | LT3 (300) | 10:30-11:30 | Wednesday 25 April | Chair | Dr Sam Hoste |
|---------------------------------------|-------------|---------------------------|------------------|--------------------|---------------------------|--------------|---------------------|
| INV_017 | | Royal Veterinary College | 10 | invited | 10:35 | | |
| | invited_020 | | | | | | |
| INV_018 | | University of Reading | 10 | invited | 10:45 | | |
| | invited_021 | | | | | | |
| INV_019 | | University of Nottingham | 10 | invited | 10:55 | | |
| | invited_022 | | | | | | |
| INV_020 | | University of Aberystwyth | 10 | invited | 11:05 | | |
| | invited_023 | | | | | | |
| INV_021 | Discussion | Discussion | 10 | discussion | 11:15 | | |
| | invited_024 | | | | | | |

| Using Research to Solve Industry Problems | | | LT3 (300) | 11:30-12:30 | Wednesday 25 April | Chair | Dr Sam Hoste |
|--|-------------------|--|------------------|--------------------|---------------------------|--------------|---------------------|
| INV_022 | Tim Rymer | Science in Agriculture | 20 | invited | 11:30 | | |
| | invited_025 | Richard Longthorp | | | | | |
| INV_023 | Stewart Houston | Health eradication systems - the pig industry's view | 20 | invited | 11:50 | | |
| | invited_026 | Stewart Houston | | | | | |
| INV_024 | David van Alstyne | Alae - its potential | 20 | invited | 12:10 | | |
| | invited_027 | David van Alstyne | | | | | |

| Networking Lunch | | | Business rd | 12:30-13:30 | Wednesday 25 April | | |
|-------------------------|------------------|---|--------------------|--------------------|---------------------------|--|--|
| | Networking Lunch | To identify potential employees and collaborators | 60 | | 12:30 | | |
| | invited_028 | | | | | | |

| How the consumer is impacting on running businesses | | | LT3 (300) | 13:30-15:10 | Wednesday 25 April | Chair | Dr Peter Williams |
|--|------------------|--|------------------|--------------------|---------------------------|--------------|--------------------------|
| INV_025 | Dame Helen Raine | The evolving fact of the animal feed industry - the impact of the consumer | 25 | invited | 13:30 | | |
| | invited_029 | Dame Helen Raine | | | | | |
| INV_026 | Dr Paul Toplis | The British Pig Industry and the impact of consumer opinions | 25 | invited | 13:55 | | |
| | invited_030 | Dr Paul Toplis, Premier Nutrition | | | | | |

| | | | | | | |
|---------|----------------------|-------------|--|----|---------|-------|
| INV_027 | Richard Butterwick | invited_031 | Raw material sourcing for the pet food industry - impact of the consumer on policy Richard Butterwick, WALTHAM Centre for Pet Nutrition | 25 | invited | 14:20 |
| INV_028 | Dr Santiago Avendano | invited_032 | Impact on the poultry industry of consumer views Santiago Avendano, Aviaegen | 25 | invited | 14:45 |

| Methods/Feeds/Fish | | | LT3 (300) | 15:30 - 16:13 | Wednesday 25 April | Chair | Dr Peter Rowlinson |
|--------------------|---------------------------------------|-----|--|---------------|--------------------|-------|--------------------|
| 100 | J. I. Qazi (1) presenting | | Effects of anthropogenic activities on some biochemical parameters of Catla catla, from the river Ravi, Pakistan | 5 | short oral | 15:30 | |
| | | 63 | H. A. Shakir, J. I. Qazi, A. S. Chaudhry | | | | |
| 101 | F Jabeen (1) presenting | | Effect of industrial pollution on heavy metals, total oxidants and antioxidants of <i>Labeo rohita</i> domiciled in the River Chenab | 5 | short oral | 15:35 | |
| | | 23 | F Jabeen, R Shaukat, A S Chaudhry | | | | |
| 102 | Arash Azarfar (1) presenting | | Detecting molecular features of structural and non-structural carbohydrates in co-Products from bioethanol production using diffuse reflectance infrared Fourier transform (DRIFT) | 3 | Highlights | 15:40 | |
| | | 188 | Arash Azarfar, Peiqiang Yu | | | | |
| 103 | Arash Azarfar (1) presenting | | Effects of bioethanol processing co-products type on estimated ruminal and intestinal availability of protein | 3 | Highlights | 15:43 | |
| | | 112 | Arash Azarfar, Peiqiang Yu | | | | |
| 104 | M A OGUIKE (1) presenting | | Reproductive performance of rabbit bucks fed diets containing probiotics | 3 | Highlights | 15:46 | |
| | | 36 | M A OGUIKE, I A THOMAS, E O ONYEKWEODIRI | | | | |
| 105 | Abdul Shakoor Chaudhry (2) presenting | | Fatty acid composition of different forages | 3 | Highlights | 15:49 | |
| | | 200 | Mohammad Mehedi Hasan Khan, Abdul Shakoor Chaudhry | | | | |
| 106 | Akbar Taghizadeh (1) presenting | | Effect of alkaline pre-treatment on <i>in vitro</i> volatile fatty acid production of sorghum grain | 3 | Highlights | 15:52 | |
| | | 183 | Farhad Parnian Khajehdizaj, Akbar Taghizadeh, Hamid Paya | | | | |
| 107 | B.O. Oduguwa (1) presenting | | Fermentation characteristics and chemical evaluation of processed cassava by-products as dry season feed for ruminants | 3 | Highlights | 16:01 | |
| | | 104 | B.O. Oduguwa, O.M. Arigbede, O.A. Oni, O.A Oderinwale, O.O. Oduguwa | | | | |
| 108 | Sifelani Chikunya (1) presenting | | Effects of 3-carene, resorcinol, and p-cresol on the metabolism of dietary polyunsaturated fatty acids by rumen microorganisms in vitro | 3 | Highlights | 16:04 | |
| | | 94 | Mostafa Bokharaeian, Sifelani Chikunya | | | | |
| 109 | John Abiona (1) presenting | | Comparative evaluation of haemagglutination potential of haemolymph from two species of giant African land snails using erythrocytes from cattle, sheep, goat and chicken | 3 | Highlights | 16:07 | |
| | | 227 | John Abiona, Akinniyi Akinduti, Mufutau Oyekunle, Ayodeji Osinowo, Okanlawon Onagbesan | | | | |

| | | | | | | |
|-----|----------------------------|----|---|---|------------|-------|
| 110 | D Ramdani (1,2) presenting | | The effect of different tea-to-water ratios on proximate, fibre and total secondary metabolite compositions of spent tea leaves as a potential ruminant feed additive | 3 | Highlights | 16:10 |
| | | 62 | D Ramdani, C J Seal, A S Chaudhry | | | |

| Poultry Nutrition - Production | | | LT2 (200) | 13:30-14:45 | Wednesday 25 April | Chair |
|--------------------------------|--------------------------------|-----|--|-------------|--------------------|-------|
| 111 | Michael Toscano (1) presenting | | Impact of a mixed chain length ω 3 fatty acid diet on production variables in commercial free-range laying hens | 15 | oral | 13:30 |
| | | 204 | Michael Toscano, Lindsay Wilkins, John Tarlton | | | |
| 112 | I Leinonen (1) presenting | | Quantifying the effect of agricultural co-products inclusion in broiler and layer diets on Global Warming Potential of poultry products | 15 | oral | 13:45 |
| | | 120 | I Leinonen, AG Williams, A Waller, I Kyriazakis | | | |
| 113 | N. B. Rano (1) presenting | | Effects of feeding distiller's dried grains with soluble in broiler diets on performance and digestibility | 15 | oral | 14:00 |
| | | 161 | N. B. Rano, A. S. Chaudhry, S. Edwards | | | |
| 114 | E. Kasapidou (1) presenting | | Dietary supplementation of organic broilers with <i>Melissa officinalis</i> L.: effect on meat quality | 15 | oral | 14:15 |
| | | 129 | E. Kasapidou, P. Mitlianga, I. Giannenas, L. Papaloukas, I. Kyriazakis | | | |
| 115 | Angel Ramirez (1) presenting | | Greenhouse gas (GHG) life-cycle assessment of broiler production and the effects of replacing soya bean meal with processed animal protein (PAP) | 5 | short oral | 14:30 |
| | | 17 | Angel Ramirez, Andrea Humphries, Stephen Woodgate, Robert Wilkinson | | | |
| 116 | E Zsödely (1) presenting | | Modification of fatty acid composition in geese by green forage and dietary linseed oil supplementation | 5 | short oral | 14:35 |
| | | 194 | E Zsödely, J Schmidt | | | |
| 117 | N.B. Rano (1) presenting | | Effect of feeding distiller's dried grains with soluble on carcass characteristics and digestive organs of broiler chickens | 5 | short oral | 14:40 |
| | | 169 | N.B. Rano, A.S. Chaudhry, S. Edwards | | | |

| Equine Breeding, Breeding and Sports Horse Utilisation | | | A25 (120) | 10:30-12:25 | Wednesday 25 April | Chair |
|--|-----------------------------|-------------|--|-------------|--------------------|-------|
| INV_029 | Dr John Newcombe | | Minising repro-related disease through good practice | 25 | invited | 10:30 |
| | | invited_033 | Dr John Newcombe | | | |
| INV_030 | Jane Morrell (1) presenting | | Improving sperm quality for equine artificial insemination | 25 | invited | 10:55 |
| | | 311 | Jane Morrell | | | |
| 118 | V. M. Clay (1) presenting | | The effect of different freezing methods on the concentration of insulin-like growth factor-I and immunoglobulin G in equine colostrum | 15 | oral | 11:20 |
| | | 53 | V. M. Clay, H. J. Janicke | | | |

| | | | | | | |
|-----|-----------------------------------|-----|---|----|------------|-------|
| 119 | C. E. Walls (1) presenting | 280 | Heritability of musculoskeletal conditions in a population of Thoroughbred racehorses at the Hong Kong Jockey Club C. E. Walls, T. W. Lewis, S. C. Blott, D. J. Mellor, K. K. H. Lam, B. D. Stewart, T. D. H. Parkin | 15 | oral | 11:35 |
| 120 | Sheilagh Brown (1) presenting | 10 | Phenotypic analyses to support investigations of phylogeny in the Skyrian pony and other breeds Sheilagh Brown, Meriel Moore-Colyer, Duncan Hannant | 15 | oral | 11:50 |
| 121 | K Hennessy (1) presenting | 31 | UK sport horse market requirements K Hennessy, M Lambkin | 5 | short oral | 12:05 |
| 122 | K Hennessy (1) presenting | 32 | International brand representation of competition sport horses in the UK K Hennessy, M Lambkin | 5 | short oral | 12:10 |
| 123 | K Hennessy (1) presenting | 33 | 033 Brand associations of international sport horse brands in the UK market K Hennessy, M Lambkin | 5 | short oral | 12:15 |
| 124 | Anke Twigg-Flesner (1) presenting | 103 | The Effect of Human Chorionic Gonadotrophin and Prostaglandin F _{2α} on Pre-ovulatory follicle size in Lusitano mares in Portugal Anke Twigg-Flesner, Fernando da Mata, Linda Greening, Joana Bourbon | 5 | short oral | 12:20 |

| Equine Movement and Behaviour | | | A25 (120) | 13:30-15:00 | Wednesday 25 April | Chair | Dr Debbie Nash + ANO |
|-------------------------------|------------------------------|-------------|---|-------------|--------------------|-------|----------------------|
| INV_31 | Dr Thilo Pfau | invited_035 | Emerging technics for assessing conformation and locomotion Dr Thilo Pfau | 20 | invited | 13:30 | |
| INV_32 | Dr Renate Weller | invited_036 | Emerging technics for assessing conformation and locomotion Dr Renate Weller | 20 | invited | 13:50 | |
| 125 | A M Newman (1) presenting | 216 | Equine fore limb and hind limb stride kinematics: a response to dynamic stretching A M Newman, N Blackie, S V Tracey | 5 | short oral | 14:10 | |
| 126 | Jodie Sharp (1) presenting | 67 | Habitation of horses to the equine hydrotherapy spa unit Jodie Sharp, Charlotte Brigden | 5 | short oral | 14:15 | |
| INV_33 | Dr Jonathan Cooper | invited_037 | Behaviour and Welfare of Captive Animals with Reference to the Domestic Horse Dr Jonathan Cooper | 25 | invited | 14:20 | |
| 127 | Kelly Yarnell (1) presenting | 9 | The physiological and behavioural effect on the equine species of four housing designs allowing differing levels of physical and social contact with con-specifics. Kelly Yarnell, Carol Hall, Chris Royle | 15 | oral | 14:45 | |

| Equine Nutrition | | | A25 (120) | 15:30-16:40 | Wednesday 25 April | Chair |
|-----------------------------|---------------------------------------|-----|--|-------------|--------------------|-------|
| INV_34 | Patricia Harris (1) presenting | 315 | Hyperinsulinaemia = Laminitis : Truth or Fiction? Patricia Harris | 25 | invited | 15:30 |
| 128 | Nicola Kinnard-Comedie (1) presenting | 139 | An <i>in vitro</i> study into the degradation of fat sources fed to equines using the gas production technique Nicola Kinnard-Comedie | 15 | oral | 15:55 |
| 129 | Jo-Anne Murray (1) presenting | 239 | The effect of freezing on the fermentative activity of equine faecal inocula for use in an <i>in vitro</i> gas production technique Jo-Anne Murray | 15 | oral | 16:10 |
| 130 | M Moore-Colyer (1) presenting | 12 | Palatability and ingestion behaviour of 6 Polo ponies offered a choice of dry, soaked and steamed hay for 1 hour on three separate occasions M Moore-Colyer, V Payne | 15 | oral | 16:25 |
| Livestock Genetics/Genomics | | | LT3 (300) | 10:30-12:30 | Wednesday 25 April | Chair |
| 131 | Raphael Mrode (1) presenting | 195 | Evaluating the impact of different levels of residual polygenic effect on genomic evaluations in the United Kingdom Raphael Mrode, Kirsty Moore, Mike Coffey | 15 | oral | 10:30 |
| 132 | M. Pszczola (1,2) presenting | 279 | Reliability of genomic selection for different reference population designs M. Pszczola, T. Strabel, H. A. Mulder, M. P. L. Calus | 15 | oral | 10:45 |
| 133 | D TODD (1,2) presenting | 180 | Genomic selection in UK beef cattle terminal traits using commercial phenotypes D TODD, J WOOLLIAMS, M COFFEY, T ROUGHSEDE | 15 | oral | 11:00 |
| 134 | Masoud Shirali (1,2) presenting | 245 | Comparison between BayesC and GBLUP methods to estimate genomic breeding values in threshold phenotypes Masoud Shirali, Seyed Reza Miraei-Ashtiani, Abbas Pakdel, Chris Haley, Pau Navarro, Ricardo Pong-Wong | 15 | oral | 11:15 |
| 135 | Oswald Matika (1) presenting | 146 | Genetic factors controlling wool shedding in an Easycare composite sheep flock Oswald Matika, Stephen Bishop, Ricardo Pong-Wong, Valentina Riggio, Denis Headon | 15 | oral | 11:30 |
| 136 | Valentina Riggio (1) presenting | 148 | Regional Genomic Relationship Mapping to identify loci underlying nematodes resistance variation in Scottish Blackface sheep Valentina Riggio, Ricardo Pong-Wong, Oswald Matika, Stephen C. Bishop | 15 | oral | 11:45 |
| 137 | R. John Wallace (1) presenting | 215 | Ruminomics: Connecting the animal genome, gastrointestinal microbiomes and nutrition to improve digestion efficiency and the environmental impacts of ruminant livestock production R. John Wallace | 15 | oral | 12:00 |

| | | | | | |
|-----|------------------------------|---|---|------------|-------|
| 138 | M.P. Mullen (1,3) presenting | Vendeen sheep prolificacy: no evidence for role of known major genes with large effects on ovulation rate | 5 | short oral | 12:15 |
| | 177 | M.P. Mullen, H. Waters, S. Lennon, M.A. Crowe | | | |
| 139 | A. McLaren (1) presenting | Do genotype by environment interactions (GxE) exist in Scottish Blackface ewes? | 5 | short oral | 12:20 |
| | 170 | A. McLaren, N.R. Lambe, S. Brotherstone, J. Conington, R. Mrode, L. Bunger | | | |
| 140 | H. Mohammadi (1) presenting | Evaluation of genetic and phenotypic parameters for weight at different ages in Raeini goat | 5 | short oral | 12:25 |
| | 5 | H. Mohammadi, H. Moradi Shahrehabak, M. Moradi Shahrehabak, A. H. Khalbadi Farahani | | | |

| Dairy and Feed (industry) | | | A24 (60) | 12:30-13:09 | Wednesday 25 April | Chair |
|---------------------------|------------------------------------|---|----------|-------------|--------------------|-------|
| 141 | Chris Hudson (1) presenting | A preliminary investigation into associations between clinical lameness and reproduction in UK dairy herds | 3 | Highlights | 12:30 | |
| | 235 | Chris Hudson, Jonathan Huxley, Martin Green | | | | |
| 142 | Michel Doreau (1) presenting | Amylase addition increases starch ruminal digestion in dairy cows | 3 | Highlights | 12:33 | |
| | 154 | Pierre Nozière, Wolfgang Steinberg, Sophie Laverroux, HØlØne Albarello, Pierre Amblard, BØatrice Duriot, Lucette Genestoux, Dominique Graviou, Josiane Portelli, Sylvie Rudel, Mathieu Silberberg, Michel Doreau, Diego Morgavi | | | | |
| 143 | H Jiao (1) presenting | Evaluation of the efficiency of utilisation of nitrogen for Holstein heifers and steers at age of six months | 3 | Highlights | 12:36 | |
| | 111 | H Jiao, T Yan, D.A. McDowell, A.F. Carson, C.F. Ferris, D.L. Easson | | | | |
| 144 | H Jiao (1) presenting | Measurements of enteric methane emissions from Holstein heifers and steers at age of six months | 3 | Highlights | 12:39 | |
| | 110 | H Jiao, T Yan, D.A. McDowell, A.F. Carson, C.P. Ferris, D.L. Easson | | | | |
| 145 | A Ward (1) presenting | The effect of the breeding program at Terling dairy farm Essex on the resistance and susceptibility to disease in Holstein dairy cows | 3 | Highlights | 12:42 | |
| | 121 | A Ward, C DeLuna | | | | |
| 146 | NW Wheadon (1) presenting | Comparison of nitrogen-use efficiency and energy conversion efficiency as measures of feed conversion efficiency in Holstein-Friesian cows over an entire lactation cycle | 3 | Highlights | 12:45 | |
| | 92 | NW Wheadon, GR Edwards, RJ Dewhurst | | | | |
| 147 | Christian Cruywagen (1) presenting | Pastures fertilized with melamine contaminated fertilizers results in the deposition of melamine in cow's milk | 3 | Highlights | 12:48 | |
| | 276 | Tanja Calitz, Christian Cruywagen, Dawn Botha | | | | |

| | | | | | | |
|-----|------------------------------|-----|--|---|------------|-------|
| 148 | H Farhangfar (1) presenting | 20 | Estimation of correlated response selection for 305 day milk yield using monthly test day milk records in Iranian primiparous Holsteins | 3 | Highlights | 12:51 |
| | | | H Farhangfar, A Arab, P Rowlinson, A Riasi, MH Fathi Nasri, M Bashtani | | | |
| 149 | M. A. Baset (1,3) presenting | 29 | Evaluation of milk urea nitrogen of dairy cows reared under different feed bases in the different seasons | 3 | Highlights | 12:54 |
| | | | M. A. Baset, K. S. Huque, M. M. Hossain, M. N. Islam | | | |
| 150 | T Yan (1) presenting | 138 | Evaluation of nitrogen utilisation efficiency of dairy cows offered diets containing two levels of concentrates with or without yeast supplementation | 3 | Highlights | 12:57 |
| | | | C Muñoz, T Yan | | | |
| 151 | K E Kliem (1) presenting | 105 | Regional and seasonal variation in the fatty acid profile of bulk milk, predicted using infra-red spectroscopy, from farms across the United Kingdom | 3 | Highlights | 13:00 |
| | | | K E Kliem, T Hampton, P Charlton, D I Givens | | | |
| 152 | R Kramer (1) presenting | 153 | Effects of dietary rumen-protected conjugated linoleic acids on fatty acid composition of lipids of milk, liver, muscle and adipose tissue of dairy German Holstein heifers in early lactation | 3 | Highlights | 13:03 |
| | | | R Kramer, D von Soosten | | | |
| 153 | D TODD (1,2) presenting | 167 | Breeding structure of the pedigree Limousin cattle population in the UK | 3 | Highlights | 13:06 |
| | | | D TODD, T ROUGHSEGE, M COFFEY, J WOOLLIAMS | | | |

| Forage/ Feed stuffs nutritive value | | | A24 (60) | 13:30-15:05 | Wednesday 25 April | Chair | Dr Alistair Carson |
|-------------------------------------|-----------------------------------|-----|---|-------------|--------------------|-------|--------------------|
| 154 | C Rymer (1) presenting | 173 | The effect of persistent volcanic activity on the composition and nutritive value of the grass <i>Hyparrhenia rufa</i> | 15 | oral | 13:30 | |
| | | | C Rymer, R Snape, H Mason, R Morris, S Todd, H Rymer | | | | |
| 155 | A Richmond (1,2) presenting | 272 | The effect of different C ₃₂ alkane dosing regimens on forage intake predictions for grazing beef cattle of either dairy or suckler origin | 15 | oral | 13:45 | |
| | | | A Richmond, F Lively, A Wylie, S Laidlaw, A Carson, N O'Connell | | | | |
| 156 | L A Taylor (1) presenting | 26 | Roughage intake by captive browsing ruminants: The case of the greater kudu (<i>Tragelaphus strepsiceros</i>) | 15 | oral | 14:00 | |
| | | | L A Taylor, C Schwitzer, M Clauss | | | | |
| 157 | Alejandro Belanche (1) presenting | 150 | Investigation of the feedstuff composition by Fournier Transform Infrared Spectroscopy (FTIR) | 5 | short oral | 14:15 | |
| | | | Alejandro Belanche, Gordon, G. Allison, Charles, J. Newbold, Martin, R. Weisbjerg, Maria Chrenkova, Jon, M. Moorby | | | | |

| | | | | | |
|-----|-----------------------------------|--|---|------------|-------|
| 158 | Alejandro Belanche (1) presenting | Prediction of feedstuff composition by Fourier Transform Infrared Spectroscopy (FTIR) | 5 | short oral | 14:20 |
| | 152 | Alejandro Belanche, Gordon, G. Allison, Charles, J. Newbold, Martin, R. Weisbjerg, Maria Chrenkova, Jon, M. Moorby | | | |
| 159 | D Ramdani (1,2) presenting | Simultaneous HPLC analysis of alkaloid and phenolic compounds in green and black teas (<i>Camellia sinensis</i> var. Assamica) | 5 | short oral | 14:25 |
| | 60 | D Ramdani, C J Seal, A S Chaudhry | | | |
| 160 | Farhad Parnian Khajehdizaj (1) | Effects of microwave irradiation on <i>in vitro</i> gas production characteristics of wheat grain | 5 | short oral | 14:30 |
| | 87 | Farhad Parnian Khajehdizaj, Akbar Taghizadeh | | | |
| 161 | M Chaji (1) presenting | The effect of ensiling time on <i>in vitro</i> gas production of sugarcane top ensiled with urea, molasses and sulphuric acid by Arabi sheep | 5 | short oral | 14:35 |
| | 89 | M Chaji, T Mohammadabadi | | | |
| 162 | Morteza Chaji (1) presenting | The effect of cinnamon (<i>Cinnamomum verum</i>) on nutritive value of sugarcane pith | 5 | short oral | 14:40 |
| | 159 | Morteza Chaji, Tahereh Mohammadabadi, Hossein Taherinia | | | |
| 163 | M.H. Fathi Nasri (1) presenting | Effect of beam electron irradiation on tannin and total polyphenolic compounds content of pomegranate seed pulp | 5 | short oral | 14:55 |
| | 18 | F. Khosravi, M.H. Fathi Nasri, H. Farhangfar, J. Modarresi, P. Rowlinson | | | |
| 164 | M. H. Fathi Nasri (1) presenting | Chemical composition, <i>in situ</i> degradation and <i>in vitro</i> gas production of saffron (<i>Corcus sativus</i>) residues | 5 | short oral | 15:00 |
| | 37 | V. Kardan Moghaddam, M. H. Fathi Nasri, R. Valizadeh, H. Farhangfar, A. Salarinia, P. Rowlinson | | | |

| Sheep | | | A24 (60) | 15:30-17:20 | Wednesday 25 April | Chair | Dr Tim Keady |
|-------|--|--|----------|-------------|--------------------|-------|--------------|
| 165 | M Doreau (1) presenting | Effect of N underfeeding on digestibility, N balance and rumen fermentation in faunated, defaunated and <i>Isotricha</i> -monofaunated sheep | 15 | oral | 15:30 | | |
| | 193 | D.P. Morgavi, S Laverroux, P Nozière, M Doreau | | | | | |
| 166 | PATIENCE, OLUSOLA FAKOLADE (1) present | Attributes of fresh meat suitable as healthy food from healthy Organic animals, (cattle and camel) | 15 | oral | 15:45 | | |
| | 131 | PATIENCE, OLUSOLA FAKOLADE | | | | | |
| 167 | C.O. Lynch (1) presenting | The effects of season of shearing and terminal sire breed on the performance of a yearling flock | 15 | oral | 16:00 | | |
| | 277 | C.O. Lynch, J.P. Hanrahan, T.W.J Keady | | | | | |
| 168 | E.A. Bruce (1) presenting | The refractory UK sheep production system | 15 | oral | 16:15 | | |
| | 203 | E.A. Bruce | | | | | |

| | | | | | | |
|-----|-----------------------------------|-----|---|----|------------|-------|
| 169 | TWJ Keady (1) presenting | 126 | Effects of plane of nutrition during the rearing phase and pregnancy on the performance of ewes lambing at 2 years of age TWJ Keady, JP Hanrahan | 15 | oral | 16:30 |
| 170 | Abdul Chaudhry (1) presenting | 237 | Effect of different levels and frequency of concentrate feeding on growth performance and carcass characteristics of Texel cross lambs Muhammad Mustafa, Abdul Chaudhry, Abdullah Shakir | 5 | short oral | 16:45 |
| 171 | S.M. ODEYINKA (1) presenting | 49 | Utilization of Wheat offal-carried Pineapple Waste by West African Dwarf Goats S.M. ODEYINKA, S.K. AYANDIRAN | 5 | short oral | 16:50 |
| 172 | CA Adams (1) presenting | 64 | Potentiated glycerol: a functional feed ingredient with antimicrobial and mycotoxin inactivating properties AC Venter, CA Adams | 5 | short oral | 16:55 |
| 173 | amir fattah (1) presenting | 186 | The effects of micronisation on ruminal protein degradation of canola seed amir fattah | 5 | short oral | 17:00 |
| 174 | Mohammad Bojarpour (1) presenting | 48 | The effect of tannin of oak kernel (<i>Quercus coccifera</i>) on nutrition value of soybean meal by gas production Maryam Harsini, Mohammad Bojarpour, Morteza Chaji, Tahereh Mohammadabadi | 5 | short oral | 17:05 |
| 175 | Ali Mahdavi (1) presenting | 240 | Effect of different levels of urea and molasses on organic matter digestibility and estimation of metabolizable energy with in vitro methods (gas test, Tilley and Terry) in ensiled pistachio epicarp Ali Mahdavi, Mojtaba Zaghari, Mojtaba Zahedifar, Ali Nikkhah, Fatemeh Alemi, Babak Darabighane, Khosro Ghazvinian | 5 | short oral | 17:10 |
| 176 | M Chaji (1) presenting | 90 | The effect of processing of sugarcane pith with low steamà pressure (80 min, 120 °C) and sulphuric acid <i>in vitro</i> gas production parameters M Chaji, T Mohammadabadi | 5 | short oral | 17:15 |

| Epidemiology and One Health | | | A26 (60) | 10:30-12:15 | Wednesday 25 April | Chair | Dr Alison Mather |
|-----------------------------|--------------------------------|-------------|--|-------------|--------------------|-------|------------------|
| INV_35 | Prof Stuart Reid | invited_009 | Title to be confirmed Prof Stuart Reid | 30 | invited | 10:30 | |
| 178 | YCSM Laurenson (1) presenting | 74 | To graze together or to graze apart: the epidemiological consequences of host resistance to <i>Teladorsagia circumcincta</i> in lambs YCSM Laurenson, I Kyriazakis, SC Bishop | 15 | oral | 11:00 | |
| 179 | Matthew Denwood (1) presenting | 283 | Modelling the effects of behavioural economics in animal disease surveillance: impact on BVD eradication in Scotland Matthew Denwood, Karl Rich, Giles Innocent, Stuart Reid, George Gunn, Dominic Mellor | 15 | oral | 11:15 | |

| | | | | | | |
|-----|-------------------------------|-----|---|----|------|-------|
| 180 | YCSM Laurenson (1) presenting | | Modelling the impact of <i>Teladorsagia circumcincta</i> larvae contamination of pasture and anthelmintic treatment on genetic parameter estimates for parasite resistance in grazing sheep | 15 | oral | 11:30 |
| | | 73 | YCSM Laurenson, I Kyriazakis, SC Bishop | | | |
| 181 | N J Fox (1,2) presenting | | A mechanistic approach to modelling macro-parasite transmission in a grazing system | 15 | oral | 11:45 |
| | | 117 | N J Fox, G Marion, R S Davidson, P C L White, M R Hutchings | | | |
| 182 | T Giles (1) presenting | | Detecting emerging and re-emerging zoonotic pathogens in rodent species using microarrays | 15 | oral | 12:00 |
| | | 275 | T Giles, A Abu-Median, L Yon, P Barrow | | | |

| Companion Animals (AVTRW) | | | A26 (60) | 13:30-14:55 | Wednesday 25 April | Chair | Dr Malcolm Cobb |
|----------------------------------|--|-----|--|--------------------|---------------------------|--------------|------------------------|
| INV_36 | Malcolm Cobb (1) presenting | | Healthy food FOR healthy animals, the role of companion animals | 25 | invited | 13:30 | |
| | | 319 | Malcolm Cobb | | | | |
| 184 | CC LU (1) presenting | | Cellular changes in the mitral valve of Cavalier King Charles Spaniel with late-stage myxomatous mitral valve disease | 10 | oral | 13:55 | |
| | | 198 | CC LU, G Culshaw, A French, B Corcoran | | | | |
| 185 | S Athanasiadou (1) presenting | | Variation in resistance and resilience to nematode parasites between selected mice strains | 10 | oral | 14:05 | |
| | | 124 | S Athanasiadou, TAE van Overbeek, JLPA van Mierlo, JGM Houdijk | | | | |
| 186 | M.M. LIU (1) presenting | | Expression of carboxymethyllysine, an advanced glycation end product, in myxomatous mitral valve disease and the mitral valve of healthy dogs. | 10 | oral | 14:15 | |
| | | 199 | M.M. LIU, L.Y. PANG, B.M. CORCORAN, G.J. CULSHAW, A.T. FRENCH | | | | |
| 187 | K J Rutherford-Markwick (1) presenting | | Immunomodulatory potential of salmon oil in domestic cats | 10 | oral | 14:25 | |
| | | 85 | K J Rutherford-Markwick, P C H Morel, D G Thomas | | | | |
| 188 | F Jabeen (1) presenting | | Effect of selenium in cadmium induced renal toxicity in male Sprague-Dawley rats | 10 | oral | 14:35 | |
| | | 24 | F Jabeen, A S Chaudhry | | | | |
| 189 | David Thomas (1) presenting | | Seasonal effects on activity levels, energy intake and nutrient digestibility in neutered male and female cats in a temperate environment | 10 | oral | 14:45 | |
| | | 130 | David Thomas, Huisi Mao, Emma Bermingham, Wouter Hendriks | | | | |

| Ruminant Health and Disease (AVTRW) | | | A26 (60) | 15:30-17:05 | Wednesday 25 April | Chair |
|-------------------------------------|--------------------------------|-----|--|-------------|--------------------|-------|
| INV_37 | S Athanasiadou (1) presenting | 295 | Nutritional approaches for parasite control in ruminants S Athanasiadou | 25 | invited | 15:30 |
| 191 | P.Y. Lim (1,2) presenting | 145 | Risk factors for hock lesions on 76 dairy farms in the Midlands region of the United Kingdom P.Y. Lim, J.N. Huxley, M.J. Green, A.R. Othman, J. Kaler | 10 | oral | 15:55 |
| 192 | M.G.G. Chagunda (1) presenting | 210 | Production system effects on weekly prevalence of lameness in dairy cows M.G.G. Chagunda, J. Flockhart, C. Mason, D.J. Roberts | 10 | oral | 16:05 |
| 193 | F Shepherd (1) presenting | 274 | A preliminary investigation into the presence, risk of entry and risk of on-farm spread of Johne's disease in the south west of England F Shepherd, T Whitaker, P Ward | 10 | oral | 16:15 |
| 194 | K Willoughby (1) presenting | 265 | Culture of bone marrow derived haematopoietic stem cells in a pooled colostrum feeding model of bovine neonatal pancytopenia E Laming, E Melzi, SFE Scholes, M Connelly, CR Bell, M Dagleish, MS Rocchi, K Willoughby | 10 | oral | 16:25 |
| 195 | P A Bobade (1) presenting | 134 | Ticks infesting goats in the mountainous area of Jabal Akhdar in Oman P A Bobade, S A Al-Riyami, R M Al-Busaidi, H Heyne, A Latif | 10 | oral | 16:35 |
| 196 | R. G. O'Neill (1) presenting | 287 | Genetic diversity of bovine viral diarrhoea isolates in Irish cattle R. G. O'Neill, E. Connaghan, J. Mooney | 10 | oral | 16:45 |
| 197 | Faye Shepherd (1) presenting | 270 | A preliminary study investigating factors affecting percentage of lameness in dairy cattle on farms in the south west of England Faye Shepherd, Tim Whitaker, Paul Ward | 10 | oral | 16:55 |