

Provisional Programme and Application Form

Southport Theatre and Convention Centre

British Society of Animal Science Annual Conference

30 March - 1 April 2009

Please read these notes before completing application form

APPLICATIONS One per delegate please. Application form, accompanied by the appropriate payment to be sent to the BSAS Office. A confirmation including receipt will be issued to all delegates. Delegates may also register on line BSAS webpage http://www.bsas.org.uk/Meetings_&_Workshops/

CONFERENCE FEE The Conference registration fee includes the BSAS Proceedings. Applications forms for the discounted rate must be received by 28 February. **All authors must register by 14 February**, failure to register by this date may result in the summary being withdrawn from the programme and not being published in the proceedings.

BSAS Students and retired members

A special low rate conference fee is offered to BSAS students/post graduates and retired members.

Registration entitles you to attend:

- All BSAS Sessions (Monday - Wednesday)
- Joint WPSA/BSAS Session Tuesday

WPSA Conference BSAS delegates are invited to attend the WPSA Gordon Memorial Lecture on Tuesday in the Lakeside Suite at 17:30 hours.

Equine Event We would encourage all students studying equines to attend the Equine Day on Monday. Please see programme for further details.

STUDENT PROGRAMME All students attending the BSAS Conference are invited to attend the Student Sunday at the Scarisbrick Hotel, followed by the Monday morning programme at the Southport Theatre and Convention Centre. Only BSAS student members will be entitled to the FREE Student Sunday package which includes the Sunday/Monday programme, social and meal on Sunday and a contribution of £30 towards Sunday night accommodation. Please join the society if you wish to take advantage of this package. Non-members can also attend this programme at a cost of £50 - see application opposite.

ACCOMMODATION Delegates are asked to complete a brief form at registration confirming their accommodation in Southport. This in turn will be given to Southport Conference & Tourism Office, as proof of delegates staying in Southport so that the society gets FREE hire charge for the Southport Theatre and Convention Centre and thus keeps the conference fee down. To book on-line or view hotels available please go to the BSAS website and click on the link under Accommodation http://www.bsas.org.uk/Meetings_&_Workshops/ You can also book through the Southport Tourist and Information Centre on 01704 533333.

MEALS

Evening Meals The Conference Dinner on Monday and the Tuesday Evening Event which includes a buffet are both being held in the Floral Hall at the Southport theatre and Convention Centre.

Lunch A snack bar, where delegates may purchase a light lunch, will be available on Monday and Wednesday. Tuesday lunch is booked separately via the application form.

PAYMENT We accept payment using the following credit cards: Visa (credit and debit), Mastercard and Switch or you may prefer to pay by cheque, made payable to **BSAS**. Electron and Maestro cards are not accepted. Please make your payment in £ sterling.

CANCELLATION 30 days prior to the conference: 75% refund. Within 30 days of the conference: No refund

CAR PARKING There is pay on street parking, pay car parks and limited parking available at the various hotels and guest houses, please enquire when booking accommodation.

BSAS SUBSCRIPTION BSAS Members may pay their BSAS 2009 Subscription together with their conference fee. Non-members may also join the society via the Annual Conference Application Form and thereby take advantage of the discounted conference fee. Please enclose the completed BSAS Membership Application Form and relevant membership information as requested. All forms can be downloaded from the BSAS website.

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PROGRAMME

SESSIONS - SOUTHPORT THEATRE AND CONVENTION CENTRE
 BRITISH SOCIETY OF ANIMAL SCIENCE, ANNUAL MEETING 30 March - 1 April 2009

Denotes invited session

ROOM <i>Capacity</i>			Floral Hall 400 +	Waterfront Suite 1	Waterfront 2	Waterfront 3	Lakeside Suite	Floral Hall
Sunday PM 29-Mar-09								<i>POSTERS</i>
								BSAS Poster Session I Displayed - 13:00 Monday -Tuesday 12:30 hours
Monday AM 30 March 2009					Student Programme Workshop 1	Student Programme Workshop 2		Discussion session Monday 15:00-16:00 hours Pigs and other Species Ch: Jennie Litten-Brown
	12:00	Registration and tea/coffee						
Monday PM	13:30	Session 1	13:30 - 14:45 President's Session Food and Feed Security Ch: Prof Jamie Newbold	13:30 - 15:10 Equine I Ch: Catherine Hale				Discussion session Monday 15:00-16:00 hours Product Quality Physiology Reproduction (Ruminant) Ch: Dr Peter Rowlinson
15:00-16:00		Tea/coffee and poster presentations						
	16:00	Session 2	16:00 - 17:30 Climate Change and Animal Health and Welfare Ch: Prof Nigel Scollan	16:00 - 17:25 Dairy Reproduction and Fertility Ch: Dr Melissa Royal	16:00 - 17:15 Equine II Ch: Dr Debbie Nash			Discussion session Monday 15:00-16:00 hours Product Quality Ch: Dr Ian Richardson
19:30		BSAS Conference Dinner - Floral Hall						Discussion session Tuesday 10:00-10:45 hours
Tuesday AM 31 March 09	09:00	Session 3	09:00 - 10:00 HAMMOND LECTURE - Milk and meat in our diet: Good or bad for health and wealth? Prof Ian Givens					Ruminant Nutrition Ch: Dr Ryan Law
10:00-10:45		Coffee/tea and poster viewing						
	10:45	Session 4		10:45 - 12:30 Workshop What the Funders Want Ch: Dr Sinclair Mayne	10:45 - 12:30 Animal Health Ch: Prof Ilias Kyriazakis	10:45 - 12:35 Genetics I Ch: Dr Suzanne Rowe	WPSA	BSAS Poster Session II Displayed - 13:00 Tuesday - Wednesday 12:30
12:30- 13:30		Lunch						
Tuesday PM	13:30	Session 5		13:30- 15:15 (WPSA/BSAS) Conflicts between Consumer Requirements and Food Security Ch:	13:30- 15:15 Genetics II Ch: Dr Eileen Wall	13:30 - 15:15 Non-Farmed Species Ch: Jennie Litten-Brown	Waterfront 1 Suite Joint session	Discussion session Tuesday 15:00-16:00 hours Invitro Ch:
15:15-16:00		Tea/coffee and poster viewing						
	16:00	Session 6		16:00 - 17:45 Greenhouse Gases and Farming Systems Ch: Prof Geoff Simm	16:00 - 17:50 Finishing and Carcass Composition Ch: Dr Ian Richardson	16:00-17:40 Sheep Reproduction and Nutrition Ch: Dr Liam Sinclair	WPSA	Discussion session Tuesday 15:00-16:00 hours Genetics: Dairy and Goats Ch: Dr Mike Coffey
	18:00			BSAS AGM 18:00 hours				Discussion session Tuesday 15:00-16:00 hours Genetics: Sheep Ch: Dr Geoff Pollott
	19:30	Event night - Floral Hall						
Wednesday AM 1 April 09	08:45	Session 7		08:45-10:25 Extensive Ruminant Production Ch: Prof Mike Theodorou	08:45-10:05 Ruminant Nutrition Ch: Prof Ian Givens	08:45 - 10:40 Pig Meat Quality Ch: Dr Mick Hazzeldine	WPSA	Discussion session Wednesday 10:25 -11:00 hrs Evaluation of Treated Feeds Dr Danesh Mesgaran
10:25 - 11:00		Coffee/tea and poster viewing						
	11:00	Session 8		11:00 - 13:00 Dairy Cattle Nutrition Ch: Dr Ryan Law	11:00- 12:30 Behaviour and Welfare Ch: Dr Emma Baxter	11:00 - 12:45 Methods of measuring Meat Quality Ch: Jimmy Hyslop	WPSA	Discussion session Wednesday 10:25 -11:00 hrs Exotic Feed Evaluation Dr John Cone
	13:00	Close of Meeting - Tea/coffee						Poultry WPSA/BSAS Posters

STUDENT SUNDAY/MONDAY PROGRAMME 29th-30th MARCH 2009

Sunday 29th March

Scarisbrick Hotel,

Time	Workshop 1
14:00	Registration at the Scarisbrick Hotel, Southport
14:15	Applying for funding for training, conferences and workshops
15:00	Break
15:15	Getting papers accepted for publication
16:00	Break
16:15	Thesis writing
17:00	Break
17:15	Introduction to Podcasting
19:00	Dinner and social

Monday 30th March

Southport Theatre and Convention Centre

	Workshop 2	Workshop 3
09:00	Careers for animal scientists	Podcasting continued.
10:30	Break	
11:00	Careers for animal scientists	Podcasting continued.

All students are welcome - however if you wish to take advantage of student discounts then please join the Society.

Theatre Sessions

Monday, 30 March 2009

12:00 Registration (Snack cash bar open for sandwiches, light lunch)

Floral Hall

FOOD AND FEED SECURITY

Session 13:30 - 14:45 hours

Chair: Professor Jamie Newbold

- 13:30 FFS1 Food and Feed Security - A government's view
Jane Kennedy MP, Minister of State (Farming and the Environment)
- 14:00 FFS2 Food Production and Land Use
Meurig Raymond, NFU Wales
- 14:30 Discussion
- 15:00 Tea/coffee and poster viewing

Climate Change and Animal Health and Welfare

Session 16:00 - 17:15 hours

Chair: Professor Nigel Scollan

- 16:00 CC1 Impact and adaptation of livestock to climate change
Dr Dominic Moran, SAC
- 16:30 CC2 Impact of climate change on animal health and welfare
Dr Philip Skuce, Moredun Research Institute
- 17:00 Discussion
- 19:30 Conference Dinner - Floral Hall

Waterfront Suite 1

EQUINE I

Session 13:30 - 15:10

Chair: Catherine Hale

- 13:30 EQ1 Equine Stereotypes: Current theories and future directions
Dr Matthew Parker, Royal Veterinary College, University of London
- 14:00 1 The effect of age and gender on the time taken for horses to learn an operant task
Moss Kelly, Greening Linda
- 14:15 2 Effects of back massage pads to reduce stress in the horse by the assessment of behaviour, heart rate and salivary cortisol
Harris Amy, Northrop Alison, Martin Jaime, Adjei Lisa
- 14:30 3 Genetic evaluation of UK sport horses for dressage competition
Stewart I, Woolliams JA, Brotherstone S
- 14:45 4 The relationship between judge assessment of behaviour and 'way of going' and scored performance within an elite level dressage competition
Whitaker Tim, Mills Amy, Kane Robert
- 14:50 5 Racehorse conformation and its' potential to predict animal performance
Pocock Lara, Litten-Brown Jennie
- 14:55 6 Fit and fat; a horse carer's perspective
Abraham Donna, Dumbell Lucy
- 15:00 7 An investigation into the weaning practices used within the UK equine breeding industry sector
Febery Erica, Greening Linda
- 15:05 8 Social play and its initiation in an established group of young domestic horses
McCallum Lindsay, Dumbell Lucy
- 15:00 Tea/coffee and poster viewing

Theatre Sessions

Monday, 30 March 2009

Waterfront Suite 1

DAIRY REPRODUCTION AND FERTILITY

Session 16:00-17:25

Chair: Dr Melissa Royal

- 16:00 9 Evaluation of the performance of in-calf dairy heifers either housed or out-wintered on forage brassicas (stubble turnips)
Marsh Simon, Billington Paul, Brizuela Carole, Kirby Scott
- 16:15 10 Prediction of conception at 1st artificial insemination using a combination of energy balance indicators
Valergakis George E., Oikonomou Georgios, Arsenos Georgios, Georgiadis Marios P., Banos Georgios
- 16:30 11 Effect of dietary energy content pre- and post-calving on production and blood metabolites of dairy cows during early lactation
Law R. A., Young F. J., Patterson D. C., Kilpatrick D. J., Wylie A. R. G., Mayne C. S.
- 16:45 12 An evaluation of the effect of nutritional strategy in early lactation on reproductive performance of Holstein-Friesian dairy cows
Gilmore H. S., Young F. J., Law R. A., Wylie A. R. G., Patterson D., Mayne C.S.
- 17:00 13 The effect of growth rate on age at first calving, fertility and milk production during the first lactation of Holstein-Friesian heifers on UK dairy farms
Brickell Jessica, Wathes D Claire
- 17:15 14 Key indicators and decision-making trees to analyze reproduction problems linked to environmental factors: data from a commercial dairy unit
Knapp Emilie, Chapaux Philippe, Istasse Louis, Touati Kamal
- 17:20 15 Ovarian Status, Uterine Pathology and Physical Condition of Anoestrus and Culled Buffaloes in Chitwan, Nepal
Devkota Bhuminand, Bohora Tapendra Prasad, Singh Amit Kumar, Matsui Motozumi, Miyake Yoh-Ichi
- 19:30 BSAS Conference Dinner, Floral Hall

Theatre Sessions

Monday, 30 March 2009

Waterfront Suite 2

EQUINE II

Session 16:00 - 17:15

Chair: Dr Debbie Nash

- 16:00 EQ2 Equine Health
Dr Jonathan Elliott, Royal Veterinary College, University of London
- 16:30 16 Changes in the bacterial populations in the equine hindgut following the addition of inulin to the diet.
Newbold C. J., Macias B., Crawford C., Elliott J., Harris P. A., Bailey S.R., McEwan N.R.
- 16:45 17 The effects of digestive enhancer supplements on digestibility in leisure horses
Tucker Lucy, Thomas David, Weidgraaf Karen, Taylor-Pickard Jules
- 17:00 18 The effect of epithelial diffusion on microcotyledon formation and placenta efficiency in the Thoroughbred
Berridge Stephen
- 17:05 19 Linseed oil or sunflower oil as supplements in horse compound feedstuffs : effects on plasma insulin and on plasma triglycerides fatty acids
Robaye Vincent, Dufrasne Isabelle, Dotreppe Olivier, Istasse Louis, Hornick Jean-Luc
- 17:10 20 Equine limb and oral fibroblasts in *in vitro* models of cell proliferation and wound contraction
Watts Emma, Rose Michael
- 19:30 BSAS Conference Dinner, Floral Hall

Theatre Sessions **Tuesday 31 March 2009**

Floral Hall

SIR JOHN HAMMOND MEMORIAL LECTURE

Session 09:00- 10:00

Chair: Professor Jamie Newbold

09:00 HM Milk and meat in our diet: Good or bad for health and wealth
Prof Ian Givens University of Reading

10:00 Tea/coffee and poster viewing

Waterfront Suite 1

Workshop - What the Funders Want

Session 10:45-12:30

Chair: Dr Sinclair Mayne

10:45 WFW1 A Defra Perspective
Dr Sue Popple, Deputy Director, Farming and Food Sciences Team, Defra

11:05 WFW2 A BBSRC Perspective
Dr Alf Game, Deputy Director of Research, BBSRC

11:25 WFW3 The Welsh Assembly Government's Perspective
Mr Chris Lea, Rural Affairs and Heritage, Welsh Assembly Government

11:45 WFW4 The Scottish Government's Perspective
*Prof Maggie Gill, Rural and Environment Research and Analysis Directorate
Scottish Government*

12:05 Discussion

12:30 Lunch Break

CONFLICTS BETWEEN CONSUMER REQUIREMENTS AND FOOD SECURITY

Session 13:30-15:15

Chair:

WPSA/BSAS SESSION (tbc)

13:30 Global Raw Material Markets
Tony Bell, Raw Material Director, BOCM PAULS

14:00 Feed additives
Dr Hadden Graham, President, FEFANA

15:15 Tea/coffee and poster viewing

Theatre Sessions

Tuesday, 31 March 2009

Waterfront Suite 1

GREEN HOUSE GASES AND FARMING SYSTEMS

Session 16:00 - 17:45

Chair: Prof Geoff Simm

- 16:00 21 Quantification of greenhouse gas emissions from a beef feedlot system in south-east Australia during summer conditions
Bai Mai, Muir Stephanie, Rowell Doug, Hill Julian, Chen Deli, Naylor Travis, Phillips Frances, Denmead Tom, Griffiths David, Edis Robert
- 16:15 22 Decrease in methane emissions in dairy cows with linseed supply
Martin Cécile, Ferlay Anne, Chilliard Yves, Doreau Michel
- 16:30 23 Cost effectiveness of abating greenhouse gases from UK livestock systems
Wall Eileen, McVittie Alistair, Eory Vera, Moran Dominic
- 16:45 24 Using values economics to add mitigation of greenhouse gases to dairy selection tools
Wall Eileen, Moran Dominic
- 17:00 25 Effects of dietary protein concentration on energetic efficiency and methane emission in lactating dairy cows
Yan T, Young F. J., Patterson D. C., Mayne C. S.
- 17:15 26 The effect of dietary fish oil inclusion level on intake and methane emissions of beef steers
Petrie Kirstie, Hart Kenton, Callan Jimmy, Boland Tommy, Kenny David
- 17:30 27 Effect of level of concentrate supplementation on methane emission of Holstein and Holstein-Jersey dairy cows
Yan T, Ferris C P, Mayne C S
- 17:35 28 Effect of spice supplementation on *in vitro* methane production using ground wheat as a substrate
Khan Mohammad Mehedi Hasan, Chaudhry Abdul Shakoor
- 17:40 29 Effect of Improved Feeding on Nutrient Digestibility, Growth Rate and Methane Production in Growing Cattle and Manure Management on Manure Quality
Akbar M. Ali

Waterfront Suite 2

18:00 BSAS ANNUAL GENERAL MEETING

19:30 Event Night - Floral Hall

Theatre Sessions

Tuesday, 31 March 2009

Floral Hall

SIR JOHN HAMMOND MEMORIAL LECTURE

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Prof Ian Givens University of Reading

10:00 Tea/coffee and poster viewing

Waterfront Suite 2

ANIMAL HEALTH

Session 10:45 - 12:30

Chair: Prof Ilias Kyriazakis

- 10:45 30 Are Scottish Blackface ewes more resistant to nematode parasite infection than Greyface ewes?
Kidane A., Tolkamp B.J., Kyriazakis I., Athanasiadou S., Houdijk J.G.M.
- 11:00 31 Faecal dry matter and nematode infection in parasite-resistant Merino sheep
Williams Andrew, Karlsson John, Palmer Dieter, Vercoe Phil, Williams Ian, Greeff Johan, Emery David
- 11:15 32 Unravelling some mysteries of porcine respiratory and reproductive syndrome virus (PRRSV) infections: new insights from modelling studies
Doeschl-Wilson Andrea, Kyriazakis Ilias, Galina-Pantoja Lucina
- 11:30 33 A comparison of the gut microbiota in indoor and outdoor reared pigs
Brunton Lucy, Knapp Jeremy, Heritage John, Miller Helen
- 11:45 34 Zinc Oxide reduces enterotoxigenic *Escherichia coli* K88 growth in culture and reduces the inflammatory response of porcine intestinal epithelial cells to infection
Sargeant Hannah, Shaw Marie-Anne, Miller Helen
- 12:00 35 The effects of sire genotype and the porcine circovirus type 2 vaccine on the growth performance of pigs from weaning to slaughter
Taylor Amy, Jagger Steven, Toplis Paul, Wellock Ian, Miller Helen
- 12:05 36 Quebracho (*Schinopsis quebracho-colorado*) tannin for the treatment of sheep gastrointestinal parasites. Effect of faecal egg counts on lamb growth.
Jamieson Stuart, Hovell F.D.DeB.
- 12:10 37 *In vitro* anthelmintic activity of Chicory extracts from plants of different vegetative stages on *Teladorsagia circumcincta* L3
Parissi Z, Athanasiadou S, Houdijk J, Kyriazakis I
- 12:15 38 Health status, production and reproduction performance in cattle herds as influenced by management
Knapp Emilie, Chapaux Philippe, Istasse Louis, Touati Kamal
- 12:20 39 Influence of two drying off methods on udder health index in Holstein cows given short dry period
Hosseini Ghafari m, Ghorbani G. R, Rahmani h. R, yari m, Akbarian A, Hosseini ghafari A
- 12:25 40 Incidence of African swine fever and its socio-economic implications on pig production in Lagos State, Nigeria
Akinyele Adesehinwa, J.O Saka
- 12:30 Lunch Break

Theatre Sessions
Tuesday, 31 March 2009

Waterfront Suite 2

GENETICS II

Session 13:30 - 15:15

Chair: Dr Eileen Wall

- 13:30 41 Meta-analysis of the halothane gene effect on parameters of pig meat quality
Salmi Btissam, Bidanel Jean-Pierre, Larzul Catherine
- 13:45 42 Novel epistatic QTL for chemical body composition and accretion as well as feed efficiency in pigs
Duthie Carol-Anne, Simm Geoff, Doeschl-Wilson Andrea, Kalm Ernst, Knap Pieter, Roehe Rainer
- 14:00 43 The effects of three muscling Quantitative Trait Loci on growth patterns of crossbred lambs
Lambe Nicola, Macfarlane Jenny, Masri Amer, Matika Oswald, Haresign Will, Bunger Lutz
- 14:15 44 Comprehensive Evaluation of the Direct Effects of LM-QTL on Carcass Traits in Crossbred Lambs
Masri Amer, Macfarlane Jenny, Lambe Nicola, Haresign William, Ruis-Vilarrasa Elisenda, Bunger Lutz
- 14:30 45 Evidence for segregation of a third gene with a major effect on ovarian function in Cambridge sheep
Hanrahan J P
- 14:45 46 Linkage disequilibrium in two divergent genetic groups of dairy cows using a high-density map of Single Nucleotide Polymorphisms
Banos Georgios, Coffey Mike
- 15:00 47 The effect of linkage disequilibrium on the estimates of the single nucleotide polymorphic effects
Moore Kirsty, Gibson John, Johnston David
- 15:15 Tea/coffee and poster viewing

Theatre Sessions

Tuesday, 31 March 2009

Waterfront Suite 2

FINISHING AND CARCASS COMPOSITION

Session 16:00-17:50

Chair: Dr Ian Richardson

- 16:00 48 Use of forage brassicas and bio-active chicory/plantain/clover mixtures for lamb finishing
Vipond John, Mathieson Stephanie, Veldhuis Anouk
- 16:15 49 Investigation of the variation in lamb meat quality on three winter finishing systems
Phillips Kate, Wheeler Karen, Fisher Alan, Nute Geoffrey
- 16:30 50 The effect of genotype and diet on lamb meat quality from hill sheep systems
Speijers Marijntje, Dawson Lynne, Carson Alistair, Kilpatrick David, Moss Bruce
- 16:45 51 Influence of sex type on tenderness of beef as measured by slice shear force and Warner- Braztler shear force.
Moss Bruce, Richardson Ian, Gordon Alan, Matthews Kim, Hadley Philip, Homer Dennis
- 17:00 52 A comparison of steers and heifers of the Charolais and Limousin breed for animal performance, carcass parameters and meat quality
Lively F.O., Keady T.W.J., Moss B.W., Patterson D.C.P., Gordon A.
- 17:15 53 Meat quality of beef cattle offered grass silage and legume / cereal wholecrop silage either alone or in combination with grass silage
Kennedy Peter, Dawson Lynne, Moss Bruce, Fearon Ann
- 17:30 54 The effects of supplementation of maize silage diets during pregnancy on ewe and subsequent lamb performance
Keady TWJ, Hanrahan JP
- 17:35 55 The effects of incorporating either lupins or soya bean meal into concentrate diets when compared with a control concentrate diet on the performance and carcass characteristics of finishing lambs
Marley Christina, Fychan Rhun, Theobald Vince, Davies Rob, Sanderson Ruth, Abberton Michael, Davies Dave
- 17:40 56 The effect of alpha-tocopherol concentration and antioxidant enzyme activities on the shelf life stability of beef from different feeding systems
Garcia-Galicia Ivan, Richardson Ian, Ball Rose, Coulmier Didier, Scollan Nigel
- 17:45 57 Forage based fattening of male buffalo calves (*Bubalus bubalis*) under farmers' managed condition in Dang district, Nepal
Devkota Naba Raj, Ghimire Sandeep
- 18:00 BSAS ANNUAL GENERAL MEETING - Waterfront Suite 1
- 19:30 Event Night - Floral Hall

Theatre Sessions

Tuesday, 31 March 2009

Floral Hall

SIR JOHN HAMMOND MEMORIAL LECTURE

Session 09:00- 10:00

Chair: Professor Jamie Newbold

09:00 HM Milk and meat in our diet: Good or bad for health and wealth
Prof Ian Givens University of Reading

10:00 Tea/coffee and poster viewing

Waterfront Suite 3

GENETICS I

Session 10:45 - 12:35

Chair: Dr Suzanne Rowe

- 10:45 58 Evaluation of genetic trends for milk yield and somatic cell counts in the Holstein breed in terms of changes in the lactation curve
Mrode Raphael, Coffey Mike, Moore Kirsty
- 11:00 59 Selection for milk production in a single Holstein herd: effects on correlated traits
Pollott Geoff, Coffey Mike
- 11:15 60 An investigation on the effect of management factors and contemporary group definition on the genetic evaluation of Calving Interval in British Limousin cattle
Moore Kirsty, Mrode Raphael, Coffey Mike
- 11:30 61 Preliminary genetic analysis of beef carcass data
Coffey Mike, Wall Eileen, Banos Georgios, Roehe Rainer
- 11:45 62 Genetic correlations between piglet birth weight, its variation and survival in different dam and sire lines using Bayesian analysis
Kapell DNRG, Ashworth CJ, Knap PW, Roehe R
- 12:00 63 A comparison of the performance of Holstein-Friesian and Norwegian Red dairy cattle on commercial dairy farms over five lactations
Ferris C.P., Patterson D.C., Kilpatrick D.J.
- 12:15 64 A comparison of the reproductive performance of Holstein-Friesian and Norwegian Red dairy cattle on commercial dairy farms over five lactations
Ferris C.P., Patterson D.C., Kilpatrick D.J.
- 12:20 65 Including muscularity in Holstein-Friesian dairy breeding goals
Wall Eileen, Winters Marco, Coffey Mike
- 12:25 66 Genetic variation of rectal temperature and its relationship to milk production in Holstein Dairy Cows
Khalajzade Saeed, Emam Jomeh Nasser, Salehi Abdolreza, Moghimi Esfandabadi Ahmad
- 12:30 67 Effect of rearing season on heritability of cocoon traits in silkworm
Mirhosseini Seyed Ziaeddin, Ghanipoor Mani, Seidavi Alireza, Mavvajpour Moeinoddin, Bizhannia Alireza
- 12:35 Lunch Break

Theatre Sessions

Tuesday, 31 March 2009

Waterfront Suite 3

NON-FARMED SPECIES

Session 13:30-15:15

Chair: Dr Jennie Litten-Brown

- 13:30 NFS1 Zoos: Conservation or exploitation?
Jamie Copsey, Durrell Wildlife Conservation Trust, Jersey
- 14:00 NFS2 Animal learning: its role in animal management and welfare
Dr Anne McBride, Director Animal Behaviour Unit, University of Southampton
- 14:30 68 Hindgut digestibility in the dog
Singh Ishwani, Hendriks Wouter, Tucker Lucy, Thomas David
- 14:45 69 Immune enhancing potential of a canola oil-based supplement for the working dog
Rutherford-Markwick Kay, Thomas David, McGrath Michelle, O'Flaherty Kelly, Weidgraaf Karin
- 15:00 70 Chromium oxide and titanium dioxide as indigestible markers in dogs
Singh Ishwani, Hendriks Wouter, Tucker Lucy, Thomas David
- 15:15 Tea/coffee and poster viewing

SHEEP REPRODUCTION AND NUTRITION

Session 16:00-17:40

Chair: Dr Liam Sinclair

- 16:00 71 The effects of herbage allowance and frequency of allocation to ewes in mid pregnancy on ewe and subsequent lamb performance
Keady TWJ, Hanrahan JP
- 16:15 72 Effects of replacing grass silage with maize silage or concentrates on lamb output from housed pregnant ewes
Annett Ronald, Carson Alistair
- 16:30 73 Effects of altering the plane of nutrition during the rearing phase and pregnancy of 2-tooth ewes, of two genotypes, on ewe and subsequent lamb performance
Keady TWJ, Hanrahan JP
- 16:45 74 Performance of crossbred Welsh Mountain ewes in the hill environment
Wolf B T, McLean B M L, Davies O D, Griffiths J B
- 17:00 75 Lifetime performance of crossbred ewes in the hill sheep sector
Annett Ronald, Carson Alistair, Dawson Lynne, Irwin Desmond, Kilpatrick David
- 17:15 76 Effects of mild early- and mid-pregnancy under-nutrition on foetal and placental development in Scottish Blackface and Suffolk sheep.
Werkman Marleen, Rooke John, McIlvaney Kirstin, Dwyer Cathy, Ashworth Cheryl
- 17:30 77 Effects of early- and mid-pregnancy under-nutrition on maternal and foetal plasma free amino acid concentrations in Scottish Blackface and Suffolk sheep
Rooke John, Werkman Marleen, McIlvaney Kirstin, Dwyer Cathy, Ashworth Cheryl
- 17:35 78 Effects of plane of nutrition and selenium supplementation of ewes in early and mid-pregnancy on meat quality of offspring
Muñoz Camila, Carson Alistair, McCoy Maurice, Moss Bruce, Gordon Alan
- 18:00 BSAS ANNUAL GENERAL MEETING - Waterfront Suite 1
- 19:30 Event Night - Floral Hall

Theatre Sessions

Wednesday, 1 April 2009

Waterfront Suite 1

EXTENSIVE RUMINANT PRODUCTION

Session 08:45 - 10:25

Chair: Prof Mike Theodorou

- 08:45 ERP1 Production and other ecosystem services from extensive grassland-based systems in Europe: policy options and technical innovations
Dr Alain Peeters, RHEA, Belgium
- 09:10 ERP2 Efficient production from Grassland
Prof Nigel Scollan & Jon Moorby, IGER
- 09:35 ERP3 Balancing the competing needs of climate change, biodiversity and sustainable rural communities
Dr Harvard Prosser, Welsh Government
- 09:55 79 Effect of lipid-rich plant extract on the fatty acids composition and meat quality of Charolais × Friesian steers
Kim Eun Joong, Scollan Nigel D., Richardson R. Ian, Gibson K., Ball R., Coulmier Didier
- 10:10 80 Comparison of the performance of finishing beef cattle offered grass silage and legume / cereal wholecrop silage either alone or in combination with grass silage
Kennedy Peter, Dawson Lynne
- 10:25 Tea/coffee and poster viewing

Theatre Sessions

Wednesday, 1 April 2009

Waterfront Suite 1

DAIRY CATTLE NUTRITION

Session 11:00-13:00

Chair: Dr Ryan Law

- 11:00 81 Effects of dietary protein concentration on the efficiency of nitrogen utilisation in lactating dairy cows
Yan T, Young F J, Patterson D C, Mayne C S
- 11:15 82 An evaluation of the effect of nutritional strategy in early lactation on performance and energy status of Holstein Friesian dairy cows
Young Fiona, Law Ryan, Gilmore Hazel, Patterson Desmond, Wylie Alastair, Mayne Sinclair
- 11:30 83 Alfalfa hay replacement with *Kochia scoparia* and its effects on early lactation Brown Swiss dairy cows
Saremi Behnam, Shahdadi Alireza, Zaher-Farimani Mohammad
- 11:45 84 Effect of rumen-protected methionine and choline on plasma metabolites of Holstein dairy cows
Ardalan Mehrnaz, Rezayazdi Kamran, Dehghan-Banadaky Mehdi
- 12:00 85 Delineating the role of trans octadecenoic acids in the regulation of milk fat synthesis: The relationship between trans-10 18:1 and milk fat yield in cows fed high oleic acid or high linoleic acid plant oil supplements
Lock Adam L., Hinrichsen Torben, Bauman Dale E.
- 12:15 86 Manipulating the fatty acid composition of lipids in the digital cushion of the bovine claw
Baird Lorna G., O'Connell Niamh E., Young Ian S.
- 12:30 87 The effect of dairy cow breed and cross on milk production and fatty acid composition under grazing conditions
Palladino Rafael Alejandro, Buckley Frank, Murphy John J., Prendiville Robert, Callan James, Kenny David
- 12:35 88 The effect of a short extended grazing period in the spring and straw allocation on the milk yield and composition of autumn calving dairy cows.
Sinclair L. A., McAleer C.
- 12:40 89 Physically effectiveness of ensiled apple pomace and its effects on ruminal passage rate of digesta in Holstein dairy cows
Ghoreishi Sayid Fazlollah, Pirmohammadi Rasoul, Teimouri yansari Asadollah
- 12:45 90 Detanning can cause improvements in ruminal cell wall degradation and total tract apparent NDF digestibility of Sainfoin (*Onobrychis vicifolia*)
Khalilvandi Hamed, Dehgan-banadaky Mehdi, RezaYazdi Kamran
- 12:50 91 Effect of rumen-protected choline on production performance and body condition of Holstein dairy cows
Ardalan Mehrnaz, Rezayazdi Kamran, Dehghan-Banadaky Mehdi
- 12:55 92 An investigation of calf rearing practices on dairy farms in Northern Ireland
Morrison Steven, Carson Alistair, Matthews David, Mulholland Martin
- 13:00 End of Session and conference.

Theatre Sessions

Wednesday, 1 April 2009

Waterfront Suite 2

RUMINANT NUTRITION

Session 08:45 - 10:05

Chair: Prof Ian Givens

- 08:45 93 Effects of level and form of dietary zinc on dairy cattle performance and keratin production in the teat canal.
Cope Carolyn, Mackenzie Sandy, Wilde David, Sinclair Liam
- 09:00 94 Prediction of metabolisable energy concentration of fresh grass – which digestibility variable is better, organic mater or energy?
Yan T, Ferris C P, Mayne C S
- 09:15 95 Effects of normal and high oleic acid rapeseed in the dairy cow diet on milk fatty acid composition
Kliem Kirsty, Humphries David, Givens Ian
- 09:20 96 Effect of dairy management (conventional, organic) and season (winter, summer) on fatty acid composition of retail whole milk
Stergiadis Sokratis, Butler Gillian, Seal Chris, Leifert Carlo
- 09:25 97 Use of selenium enriched fertilizers in the management of a suckling herd : effects over a 5 years period
Robaye Vincent, Dotreppe Olivier, Hornick Jean-Luc, Paeffgen Stefan, Istasse Louis, DufRASne Isabelle
- 09:30 98 The Sodium Bentonite and Sodium Bicarbonate effects on feedlot performance and rumen parameters of Holstein steers.
Kianoosh Shadi, Shivazad Mahmood, Rezayazdi Kamran, Ferdosmakan Ali
- 09:35 99 Effects of chromium supplementation on production responses of heat stressed dairy cows
Mirzaee Mehdi, Ghorbani Gholamreza, Khorvash Mohammad, Rahmani Hamidreza, Yari Mojtaba, Ghasemi Ebrahim
- 09:40 100 The effects of chromium supplementation on blood parameters related to protein and lipid metabolism in early lactating cows
Mirzaee Mehdi, Khorvash Mohammad, Ghorbani Gholamreza, Rahmani Hamidreza, Hashemzade Cigari Farzad, Yari Mojtaba
- 09:45 101 *In vitro* degradability of different fractions of *Solanum lycocarpum* St Hil.
Rezende Lima Neto Helio, Shakoore Chaudhry Abdul, Mehedi Hassan Khan Mohammad, Riaz Virk Muhammed
- 09:50 102 Effect of yeast and mannanoligosaccharides on *in vitro* fermentation of different substrates
Bagheri Maryam, Ghorbani Gholam R., Rahmani Hamid R., Khorvash Mohammad
- 09:55 103 Fermentation kinetic of three non-cultivated pastures located in the central plateau of Mexico
Rayas-Amor Adolfo A., Dorward Peter, Rehman Tahir, Mould Fergus L., Castelan-Ortega Octavio A.
- 10:00 104 Effect of Processing of Palm Oil Petiole on Palatability in Bali (*Bos sondaecus*) Cows
Afdal Muhammad, Syarif Suhassy, Kasim Azhar
- 10:25 Tea/coffee and poster viewing

Theatre Sessions

Wednesday, 1 April 2009

Waterfront Suite 2

BEHAVIOUR AND WELFARE

Session 11:00 - 12:30

Chair: Dr Emma Baxter

- 11:00 105 The behaviour of cows in response to rubber mats in milking parlour stalls
Gudaj Ryszard, Blackie Nicola, Bleach Emma, Scaife Jes, Amory Jonathan
- 11:15 106 The prevalence of hock lesions in UK dairy cattle and the significance of risk factors associated with the development of the condition
Potterton Sarah, Green Martin, Harris John, Millar Kate, Whay Helen, Huxley Jon
- 11:30 107 Spatial distribution of scottish blackface ewes in comparison to other crossbreds on a hill environment
McCloskey Eileen, Mc Adam Jim, Carson Alistair
- 11:45 108 Cluster analysis of farming systems according to predisposing factors of lameness in dairy sheep.
Gelasakis Athanasios I., Arsenos Georgios, Valergakis Georgios E., Fortomaris Paschalis, Banos Georgios
- 12:00 109 The effect on lamb vigour of adding supplementary vitamin E to ewe diets in late pregnancy
Matheson Stephanie, John Rooke, Ison Sarah, Jack Mhairi, Ashworth Cheryl, Dwyer Cathy
- 12:15 110 Prediction of parturition in dairy cattle using a 2D accelerometer to measure lying behaviour – A preliminary observational field study
Blackie Nicola, Bowe Shelley, Bleach Emma
- 12:20 111 Changes in lying behaviour and activity during the peri-parturient period in primiparous and multiparous Holstein dairy cows
Bowe Shelley, Blackie Nicola, Bleach Emma
- 12:25 112 Is there a relationship between the behaviour of beef cattle and emissions of methane and ammonia from feedlot systems?
Muir Stephanie, Bai Mai, Loh Zoe, Hill Julian, Chen Deli, Naylor Travis, Griffiths David, Edis Robert
- 12:30 End of session and Conference

Theatre Sessions

Wednesday, 1 April 2009

Waterfront 3

PIG MEAT QUALITY

Session 08:45 - 10:40

Chair: Dr Mick Hazzeldine

- 08:45 113 Effects of low protein diets on fat deposition in the whole body and within the muscle and subcutaneous adipose tissue of pigs
Stonehouse Gary, Hughes Sue, Hallett Kath, Stewart Alan, Wood Jeff
- 09:00 114 Effect of pig growth rate and health status on meat eating quality
Zammerini Dario, Miller H. M., Marriott D. T., Richardson R. I., Whittington F. M., Wood J. D.
- 09:15 115 The use of glycerol in diets for finishing pigs
McCann Elizabeth, Magowan Elizabeth, Beattie Violet, McCracken Kelvin, Gordon Fred, Scott Marian, Robinson Mary-Jane, Bradford Raymond
- 09:30 116 The effect of dietary regime and method of grouping on the variation in growth rate between pigs
Magowan Elizabeth, McCann Elizabeth, Beattie Violet, McCracken Kelvin, Bradford Raymond, Scott Marian, Robinson Mary-Jane, Gordon Fred
- 09:45 117 Evaluation of alternative methods to predict the lean meat percentage of pig carcasses
Magowan Elizabeth, McCann Elizabeth, Moss Bruce, Kilpatrick David
- 10:00 118 Using meta-analysis to determine the influence of dietary factors on pork quality
Trefan Laszlo, Bünger Lutz, Doeschl-Wilson Andrea
- 10:15 119 The use of near infrared reflectance spectroscopy (NIRS) to predict the nutritive value of standard commercial diets for post-weaned pigs
McCann Elizabeth, Park Rae, Hutchinson Michael, Owens Bronagh, Beattie Violet
- 10:20 120 Effect of a compensatory growth feeding regime on muscle glycogen and meat quality attributes in pigs
Chaosap Chanporn, Parr Tim, Wiseman Julian
- 10:25 121 The use of DeviGuard in diets for growing pigs
Beattie Violet, Allan Gordon, Magowan Elizabeth, McCann Elizabeth
- 10:30 122 Feeding value of fish meal analog as a protein source for starter pigs
Akinyele O.K. Adesehinwa, Adedapo Alalade, Olajide Sokunbi
- 10:35 123 The effect of terminal sire breed on the fatty acid profile of pork
Magowan Elizabeth, Fearon Ann, McCann Elizabeth, Beattie Alan
- 10:40 Tea/Coffee and Poster Viewing

Theatre Sessions

Wednesday, 1 April 2009

Waterfront Suite 3

METHODS OF MEASURING MEAT QUALITY

Session 11:00 - 13:00

Chair: Dr Jimmy Hyslop

- 11:00 124 Associations of objective physical measurements of beef meat samples and tenderness assessed by a trained taste panel
Ross D.W., Richardson R.I., Navajas E.A., Prieto N., Hyslop J.J., Marriott D., Simm G., Roehe R.
- 11:15 125 Potential of NIR spectroscopy for prediction of tenderness of beef sirloin
Moss Bruce, Gordon Alan, Matthews Kim, Homer Dennis, Hadley Philip
- 11:30 126 Influence of time of measurement post mortem on the near infra- red spectra of beef longissimus dorsi and prediction of tenderness
Moss Bruce, Gordon Alan
- 11:45 127 On-line prediction of the fatty acid content of beef meat by near infrared reflectance spectroscopy
Prieto Nuria, Ross Dave, Navajas Elly, Nute Geoff, Richardson Ian, Hyslop Jimmy, Simm Geoff, Roehe Rainer
- 12:00 128 Associations between beef density by X-ray computed tomography, intramuscular fat and fatty acid composition: preliminary results
Navajas E. A., Richardson R. I., Glasbey C. A., Prieto N., Ross D.W., Hyslop J.J., Simm G., Roehe R.
- 12:15 129 X-ray computed tomography accurately assesses beef carcass composition
Navajas E.A., Glasbey C.A., Fisher A.V., Ross D.W., Hyslop J.J., Richardson R. I., Simm G., Roehe R.
- 12:30 130 Front face fluorescence spectroscopy as a rapid non-invasive tool for determining diet composition in free-ranging ruminants
Lee Michael, Theobald Vince, Wold Jens-Petter, Veberg Annette, Lundby Frank, Fraser Mariecia
- 12:45 131 Genetic parameters for carcass linear and area measured by Video Image Analysis and their association with carcass traits assessed by EUROP scores
Rius-Vilarrasa Elisenda, Bünger Lutz, Brotherstone Sue, Matthews kim, Haresign Will, Macfarlane Jenny, Davies Mervyn, Roehe Rainer
- 13:00 End of Session and Conference

Poster Sessions
Monday 13:00 - Tuesday 12:30

FLORAL HALL

PIGS AND OTHER SPECIES

Poster viewing, authors in attendance

Discussion Monday 15:00 - 16:00

Chair: Dr Jennie Litten-Brown

- 132 The behaviour of finisher pigs of three genotypes during routine handling using standard or modified weighing apparatus
Clarke Helen, D'Eath R.B, Miller H.M.
- 133 Influence of mixing on the initiation of piglet feeding and post weaning growth performance
Reynolds Fiona, Forbes J. M., Miller Helen
- 134 Influence of drinker design and position on the behaviour of growing pigs
O'Connell Niamh, Magowan Elizabeth, McCann Elizabeth
- 135 Responses to multiple enrichment in post weaned pigs
Benton Hayley, Bleach Emma
- 136 Effect of a compensatory growth feeding regime on performance and gross carcass characteristics in growing / finishing pigs
Chaosap Chanporn, Parr Tim, Wiseman Julian
- 137 The pigmeat supply chain: pre-assessment for a Life Cycle Inventory
Olea Rafael, Guy Jonathan, Edge Helen, Edwards Sandra E.
- 138 Effect of supplemental copper and citric acid on growth performance and body composition of common carp (*Cyprinus carpio*)
Shirmohammad Fatemeh, Pourreza Javad
- 139 Heavy metal uptake, bioaccumulation and histopathological responses in gills of freshwater fish from Indus River, Pakistan
Jabeen Farhat, Chaudhry Abdul Shakoor
- 140 *Cyprinus carpio* as a biomarker to monitor metal pollution in the Indus River, Pakistan
Jabeen Farhat, Chaudhry Abdul Shakoor
- 141 A comparison of behaviours of common squirrel monkeys (*Saimiri sciureus*) between enclosure designs at Cotswold Wildlife Park and Woburn Safari Park
Tosar Nisha, Litten-Brown Jennie
- 142 Effects of dietary chromium-methionine supplementation on blood metabolites and insulin resistance index in Fructose-fed diabetic rats model
Ghiasi seyed Ehsan, Valizadeh Reza, Rajabian Reza, Tahmasbi Abdolmansour, Jalal razieh, naserian abasali
- 143 Study of resistance and vitality responses in six silkworm (*Bombyx mori L.*) hybrids under individual selection for parental lines
Seidavi Alireza, Mirhosseini Seyed Ziaeddin, Mavvajpour Moeinolddin, Bizhannia Alireza, Ghanipoor Mani
- 144 The Effect of GnRH Injection at two different stages of the estrous cycle on plasma progesterone and estradiol concentrations in water buffalo
Kohram Hamid, Mohammadi Ghodratalah, Dirandeh Essa

Poster Sessions
Monday 13:00 - Tuesday 12:30

FLORAL HALL

PHYSIOLOGY REPRODUCTION (RUMINANT)

Poster viewing, authors in attendance

Discussion Monday 15:00 - 16:00

Chair: Dr Peter Rowlinson

- 145 Evaluation of some blood metabolites and hormonal changes in early *postpartum* ovarian cyst in dairy cattle
Ziaea ehsan, moghaddam gholamali, rafat abas, davarpor hamid, isfandiari hadi
- 146 Effects of milk production and seasonal calving on some blood metabolites changes in dairy cows at *postpartum* period
ziaea ehsan, moghaddam gholamali, rafat abas, daghigh kia hosein, davarpor hamid
- 147 Evaluation of some serum metabolites effect on ovarian cyst at *postpartum* in dairy cattle
moghaddam gholamali, ziaea ehsan, rafat abas, daghigh kia hosein, farajian musa
- 148 The study of shearing effects on some blood parameters in Red Karaman ewes
Bayram Bulent, Farajyan Mousa, Esfandyari Hadi, Moghaddam Gholamali, Dorostkar Mohammad
- 149 Effect of propylene glycol on blood glucose, β -hydroxybutyrate and Urea at during Late Pregnancy in Ewes
Moghaddam gholamali, Farajian mousa, Shoja Jalil, Pirani nasrolah, ziyayi ehsan
- 150 Effects of dry period length on milk production and composition in early lactating Holstein cows
Soleimani Akbar, Heravi Moussavi Alireza, Danesh Mesgaran Mohsen, Safa Soroush
- 151 Effect of different calving classes in the first calving on subsequent milk production in Holstein dairy cows
Heravi Moussavi Alireza, Danesh Mesgaran Mohsen
- 152 GnRH affects emergence of a new follicular wave in cows with cystic ovaries
Dirandeh Essa, Kohram Hamid, Zare Shahneh Ahmad, Saberifar Tannaz
- 153 The effect of days dry on milk production and fertility in subsequent lactation of high producing Holstien cows
Danesh Mesgaran S., Heravi Moussavi A., Koolabadi G., Banikamali A.
- 154 Effects of dry period length on follicular dynamics in early lactating Holstein cows
Soleimani Akbar, Heravi Moussavi Alireza, Danesh Mesgaran Mohsen, Safa Soroush
- 155 Follicular responses of the right versus left ovaries to eCG treatment in Shall Iranian ewes
Kermani moakhar Hamed, Kohram Hamid, Salehi Reza, Zare Ahmad
- 156 Effect of unheated Mare serum on *In vitro* maturation of sheep oocytes.
Khodaeimotlagh Mahdi, Zarehshahne Ahmad, Daliri Morteza, Kohram Hamid, Gharagozlou Faramarz, Abtahi Faezesadat, Bakhtiarzade MohamadReza
- 157 Performance and Physiological Responses of Holestein Dairy Calves under Heat Stress Fed Diets Supplemented with Chromium – Methionine
Yari Mojtaba, Ghorbani Gholam Reza, Alikhani Masud, Rahmani Hamid Reza, Khorvash Mohamad, Mirzaee Mehdi, Hashem Zade Farzad, Hosseini Ghafari Morteza, Nazari Zade Hasan

Poster Sessions
Monday 13:00 - Tuesday 12.30

FLORAL HALL

PRODUCT QUALITY

Poster viewing, authors in attendance

Discussion Monday 15:00 - 16:00

Chair: Dr Ian Richardson

- 158 On-line application of visible and near infrared reflectance spectroscopy to predict physical and sensory characteristics of beef quality
Prieto Nuria, Ross Dave, Navajas Elly, Nute Geoff, Richardson Ian, Hyslop Jimmy, Simm Geoff, Roehe Rainer
- 159 Organoleptic properties of seasoned and unseasoned dry meat products from beef and camel meat
Patience Olusolafakolade, Andrew Babatunde Omojola
- 160 Finishing diets used in beef and lamb production in Northern Ireland: results of a questionnaire survey
McAfee Alison, Duffy Emeir, Cuskelly Geraldine, Fearon Ann, Wallace Julie, Bonham Maxine, Moss Bruce, Strain Sean
- 161 Evaluation of period of fasting and mixing of steers prior to slaughter on meat eating quality.
Lively Francis, Moss Bruce, Keady Tim, Farmer Linda, Gault Norman, Tolland Ernest, Tollerton Joan, Devlin Declan
- 162 Predicting the slaughter characteristics of finished beef cattle using a live animal digital image analysis system under typical on-farm management conditions
Hyslop J. J., Ross D. W., Schofield C. P., Navajas E. A., Roehe R., Simm G.
- 163 Effects of supplemental vitamin E and packaging system on the shelf life of venison from red deer (*Cervus elaphus*) finished off grass or concentrates
Fisher Alan, Richardson Ian, Wheeler Karen, Davies Mervyn
- 164 Evaluation of measurements that may define venison quality parameters in UK farmed deer
Davies Mervyn, Wheeler Karen, Chapple Dennis, Fisher Alan
- 165 Evaluation of techniques to predict the percentage lean meat of primal cuts from pig carcasses
Magowan Elizabeth, McCann Elizabeth, Moss Bruce, Kilpatrick David
- 166 Computer-assisted image analysis for the evaluation of wool quality in Arkharmerino × Ghezel crossbreed sheep
Esfandyari Hadi, Shoja Jalil, Rafat Sayed Abbas, Dorostkar Mohmad
- 167 Influence of abattoir, carcass suspension method, ageing time and anatomical position of the measurement on visual and near infrared spectrum characteristics of the *longissimus dorsi* of lambs
Oltra Octavio, Farmer Linda, Moss Bruce, Birnie Jonathan
- 168 Evaluation of the Direct Effects of MyoMAX™ on Carcass Traits in Crossbred Lambs
Masri Amer, Macfarlane Jenny, Lambe Nicola, Haresign William, Rius-Vilarrasa Elisenda, Bunger Lutz
- 169 Isomerisation of trans-10 cis-12 conjugated linoleic acid during acidic methylation
Lee Michael, Tweed John

Poster Sessions
Monday 13:00 - Tuesday 12.30

FLORAL HALL

RUMINANT NUTRITION

Poster viewing, authors in attendance

Discussion Tuesday 10:00-10:45 hours

Chair: Dr Ryan Law

- 170 Effect of dietary crude protein level on the performance of cereal fed Holstein bulls
Marsh Simon, Briggs Peter, Ferguson David
- 171 Cubing Diet and Chewing Behavior in Feedlot Male Calves
Oskoueian Ehsan, Foroughi Alireza, Valizadeh Reza, Fazaeli Hasan, Yahaghi Mohamad
- 172 Animal performance characteristics in suckler-bred steers and heifers finished at 16-20 months of age on a grass silage and barley-based concentrate ration offered as a complete diet
Hyslop J. J., Ross D. W., Navajas E. A., Prieto N., Roehe R., Simm G.
- 173 Effect of weaning dairy-bred bull calves either gradually or abruptly
Marsh Simon, Greenow Rachel
- 174 Evaluation of barley distillers' grains ensiled with or without molassed sugar beet pulp on feed intake and production of Holstein dairy cows
Kazemi M, Tahmasbi A. M., Valizadeh R, Danesh Mesgaran M, Moheghi M. M, Mojtahedi M
- 175 Effects of differing concentrations of rumen degradable protein with fixed level of rumen undegradable protein on intake, digestibility and rumen parameters of dairy cows.
Rafiei Hassan, Afzalzadeh Ahmad, Khadem AliAkbar, Asadi Ali
- 176 Dry matter intakes, milk yield and milk composition of dairy cows offered concentrate diets containing either yellow lupins or soya bean meal
Marley Christina, Fisher Bill, Fychan Rhun, Sanderson Ruth, Abberton Michael, Davies Dave
- 177 Effect of zinc sources on haematology, enzyme activity and blood serum zinc concentration in Holstein dairy cattle
sobhanirad saeid, valizadeh reza, azizi feridoon, Hedayati Mehdi, tahmasebi abdolmansoor
- 178 Effect of different source of supplemental protein with dried pistachio by product on performance and ruminal pH and N-NH₃ of Holstein dairy cows
Gholizadeh Hojat, Naserian Abasali, Valizadeh Reza, Tahmasebi Abdolmansoor
- 179 Effect of different levels of fish oil and canola oil on DMI, milk production, and blood metabolites of high producing Iranian Holstein dairy cows in early lactation
vafa toktam, naserian abbasali, heravi moussavi alireza, valizadeh reza, danesh mesgaran mohsen
- 180 Effect of supplemented diet by sucrose and/ or starch on blood cholesterol and some hepatic enzymes in Holstein steers
Rezaei F., Danesh Mesgaran M., Heravi moussavi A.
- 181 The effect of dietary soybean isoflavones on their concentration and total output in bovine milk
Krizova Ludmila, Svobodova Jarmila, Richter Michal, Homolka Petr, Hadrova Sylvie
- 182 Effect of feeding diet containing Fish oil and Canola oil from transition period on milk production and components of Holstein cows in early lactation
vafa toktam, naserian abbasali, heravi moussavi alireza, valizadeh reza, danesh mesgaran mohsen
- 183 Effects of organic and inorganic zinc sources on production, composition and zinc concentration of milk in early lactating Holstein cows
sobhanirad saeid, Tahmasebi Mehdi, Azizi Feridoon, Valizadeh Reza, Tahmasebi Abdolmansoor, Naserian Abbasali

Poster Sessions
Monday 13:00 - Tuesday 12:30

FLORAL HALL

RUMINANT NUTRITION

Poster viewing, authors in attendance

Discussion Tuesday 10:00-10:45 hours

Chair: Dr Ryan Law:

- 184 Linear and quadratic models as predictors of dry matter production and nutritive value of pastures located in the central plateau of Mexico
Rayas-Amor Adolfo A., Dorward Peter, Rehman Tahir, Mould Fergus L., Castelan-Ortega Octavio A.
- 185 Effect of substitution barley grain with dried sugar beet pulp on ruminal pH and NH₃-N concentration of Holstein steers
Mojtahedi Mohsen, Danesh Mesgaran Mohsen, Heravi Moussavi Alireza, Tahmasebi Abdolmansour
- 186 Chewing behavior of Holstein steers fed diets containing different levels of nonforage NDF in a low forage diet
Mojtahedi Mohsen, Danesh Mesgaran Mohsen, Heravi Moussavi Alireza, Tahmasebi Abdolmansour
- 187 The effect of feeding ensiled alternative forages compared with ensiled ryegrass on excreta losses from growing lambs
Marley Christina, Fychan Rhun, Fraser Mariecia, Sanderson Ruth, Jones Raymond
- 188 Effects of replacing beet pulp with pistachio Hull and interaruminal infusion of urea on feed intake, ruminal and abomasum N-NH₃ and blood metabolites in Iranian Balochi sheep
Gholizadeh Hojat, Naserian Abasali, Valizadeh Reza, Tahmasebi Abdolmansoor
- 189 Effect of inoculants on fermentation and nutritive value of unwilted and wilted alfalfa silage
hashemzadeh cigari farzad, khorvash mohammad, ghorbani gholam reza, taghizade akbar, sadegi khaled, mohammadzadeh hamid
- 190 An on-farm evaluation of the effects of season of shearing on ewe and subsequent lamb performance
Keady TWJ, Hanrahan JP
- 191 Effects of different levels replacement of ensiled pistachio epicarp with corn silage on fattening parameters and lamb performance
Mahdavi Ali, Zaghari Mojtaba, Zahedifar Mojtaba, Nikkhah Ali, Alemi Fatemeh, Aghashahi Alireza, Hosseini Sayed Abdollah, Mahdavi Ala
- 192 Effects of Whole cottonseed on small intestine morphology of Chaal fattening male lambs
Absalan Mohsen, Afzalzadeh Ahmad, Khadem Ali Akbar, Sharifi Davood
- 193 Effect of cobalt supplementation on performance of mehraban lambs
Aliarabi Hassan, Bisheh Sari Shahab, Tabatabaei Mohamad Mahdi, Ahmadi Ahmad, Zamani Poya, Alipour Daryoush, Zamani Zahra
- 194 The influence of steam treated sugarcane pith as feed ingredient on digestibility and passage rate of Iranian Baluchi sheep
Chaji Morteza, Naserian Abbasali, Valizadeh Reza
- 195 The effect of different feeding levels of dried pistachio epicarp on fattening performance of lambs
Mahdavi Ali, Zaghari Mojtaba, Zahedifar Mojtaba, Nikkhah Ali, Alemi Fatemeh, Aghashahi Alireza, Hosseini Abdollah, Mahdavi Ala
- 196 Investigation on the effects of adding direct-fed Microbial on total tract apparent nutrient digestibility in sheep
Khazanehei Hamidreza, Rezayazdi Kamran, Nikkhah Ali
- 197 Effect of lucerne hay particle size and form of neutral detergent soluble carbohydrates on performance of Holstein cows in midlactation
Asadi Ali, Ghorbani Gholam R., Alikhani Masoud, Teimouri-Yansari Asad

Poster Sessions
Tuesday 13:00 - Wednesday 12:30

FLORAL HALL

IN VITRO

Poster viewing, authors in attendance

Discussion Tuesday 15:00-16:00 hours

Chair:

- 198 Behavior analysis of a first order degradation model when fitting the nutrient ruminal disappearance data
Fathi Nasri M. Hassan, Danesh Mesgaran Mohsen, France James, Riasi Ahmad
- 199 Evaluation of mathematical models to describe protein fraction degradation kinetics of various oilseed meals
Danesh Mesgaran M., Tashakkori T., Heravi Moussavi A., Danesh Mesgaran S., Vakili A.
- 200 Ruminal crude protein degradability parameters of some feedstuffs using *in situ* technique
Besharati Maghsoud, Taghizadeh Akbar, Janmohamadi Hossein, Moghadam GholamAli
- 201 The effect of fluctuations in rumen pH on protozoa populations in rumen fluid as determined by real-time PCR
Vakili Alireza, Danesh Mesgaran Mohsen, Heravi Mousavi Alireza, Valizadeh Reza, Nassiry Mohamad Reza, Yáñez Ruiz David R., Newbold Charles Jamie
- 202 *In vitro* rumen fungi growth in a medium containing sodium hydroxide treated wheat straw using competitive PCR assay
Sekhavati M.H., Mohammadabadi T., Danesh Mesgaran M., Nassiry M.R., Fani Maleki A.
- 203 *In vitro* rumen fungi quantification in medium containing sodium hydroxide or formaldehyde treated sunflower meal using quantitative competitive PCR assay
Mohammadabadi T., Danesh Mesgaran M., Heravi Moussavi A. R., Nassiry M. R., Sekhavati M. H., Chaji M., Fani Maleki A., Alshowkany A. R.
- 204 Evaluation of a zero-order model to describe ruminal degradation kinetics of whole soybean incubated *in situ*
Fathi Nasri M. Hassan, Danesh Mesgaran Mohsen, Kebreab Ermias
- 205 The effect of non fibre carbohydrate on *in vitro* first order dry matter disappearance kinetic of cellulose
Rezaii F., Danesh Mesgaran M., Heravi Moussavi A.

Poster Sessions
Tuesday 13:00 - Wednesday 12:30

FLORAL HALL

GENETICS: DAIRY AND GOATS

Poster viewing, authors in attendance
Discussion Tuesday 15:00-16:00 hours
Chair: Dr Mike Coffey

- 206 Genetic parameter estimation of economic traits in Raienian Cashmere goats
Rezvannejad Elham, Moradi Shahrababak Mohammad, Moravej Hosein
- 207 Derivation of economic values (EVs) for production traits of Markhoz goat breed in Iran
Zandi Mohammad Bagher, Moradi shahrababak Mohammad, Miraie Ashtiani Seyed Reza, Rashidi Amir
- 208 Genetic polymorphism at the Growth Hormone Locus in Iranian Talli Goats by PCR-SSCP
mousavizade Seyed Azim, Nassiri Mohammad Reza, Ghiasi Heidar, Mohammad Abadi Mohammad Reza
- 209 The study on polymorphisms of BMP-15 gene in Iranian native goats
Deldar-Tajangokeh Hamid, Zare Shahneh Ahmad, Zamiri Mohammad Javad, Nejati-Javaremi Ardshir
- 210 Heterogeneity of variance for milk traits at different herd sizes in Holstein dairy cattle in Iran and the best method(s) for data transformation.
Varkoohi sheyda, MiraiiAshtiani SeyedReza, Mehrabani Yeganeh Hasan
- 211 Estimation of the udder composite trait in Holstein population of Iran
Bakhtiarizadeh Mohamadreza, Moradi shahr babak Mohamad, Pakdel Abass
- 212 Estimation of genetic trend for milk and fat yields in Iranian Holstein cattle
Sheikhloo Mohamadreza, Shodja Djalil, Pirani Nasrollah, Alijani Sadegh, Rafat Abas
- 213 What has happened to the genetic merit of average UK Holstein cows over the last 24 years?
Pollott Geoff, Coffey Mike
- 214 Estimation of genetic trends for twinning rate in Holstein dairy cattle of Iran using linear and threshold models
Ghavi Hossein-Zadeh Navid, Nejati-Javaremi Ardeshir, Miraei-Ashtiani Seyed Reza, Kohram Hamid
- 215 Acyl-CoA: diacylglycerol acyltransferase 1 (DGAT1- K232A) gene polymorphism in Iranian Holstein cows
Saheb Foroutani Far, Mohammad reza Nassiry, Fatemeh Hosseini, Rohollah Zahmatkesh
- 216 Polymorphism of insulin like growth factor I receptor in Iranian Najdi and Holstein cows by using of PCR-RFLP
Bakhtari Azizollah, Rahmani Hamid Reza, Edriss Mohammad Ali, Seyed Tabatabaei Badruddin Ebrahim
- 217 Software packages in animal breeding
Sahebhonar Mohammad, Moradi Shahrababak Mohammad, Miraei Ashtiani S. REZA, Sayadnejad Mohammad Bagher
- 218 Genetic analysis of type traits in the Holstein population of Iran
Bakhtiarizadeh Mohamadreza, Moradi shahr babak Mohamad, Pakdel Abass, Dirandeh Essa

Poster Sessions
Tuesday 13:00 - Wednesday 12:30

FLORAL HALL

GENETICS: SHEEP

Poster viewing, authors in attendance

Discussion Tuesday 15:00-16:00 hours

Chair: Dr Geoff Pollott

- 219 A proposed novel breeding system for intensively reared dairy flocks.
Gelasakis Athanasios I., Valergakis Georgios E., Fortomaris Paschalis, Giannakopoulos Constantinos G., Arsenos Georgios
- 220 Genetic and phenotypic correlations of growth weight traits in Moghani sheep
Rafat Seyed Abbas, Shodja Djalil, Dorostkar Mohammad, Pirani Nasrollah
- 221 The estimation of variance components for reproductive traits of Moghani sheep
Bayeriyar Mehdi, Shodja Djalil
- 222 Effects of auto selection and threshold selection of dams for litter size in sheep
Shirali Masoud, Nejati-Javaremi Ardeshir, Mehrabani-Yeganeh Hassan
- 223 Estimation of economic values for economical traits of Zandi sheep breed
Zandi mohammad bagher, Zahmatkesh Barbod, Amini Saman
- 224 Estimation of economic values for growth and reproduction traits in Iranian Karakul sheep breed
Zahmatkesh Rohollah, Rahimi Ghodratollah, Hafezian Hassan
- 225 The wool properties and body weights of the Indigenous Red Karaman and Karyaka sheep breeds of Turkey
Pasa Elnour, Esfandyari Hadi, Farajiyani Mousa, Moghaddam Gholamali, shahbazi Payman, Bayram Bulent, Ziaee Ehsan
- 226 Associations between polymorphism of growth hormone receptor (GHR) gene and growth traits of Baluchi sheep
Vafaye Valeh Mehdi, Tahmoorespour Mojtaba, Ansari Mazyar, Karimi Davood, Nasiry Mohamadreza
- 227 Association of Leptin and Ghrelin polymorphisms with growth traits in Baluchi sheep
Tahmoorespour Mojtaba, Ansari Mazyar, Taheri Amir, Vafaye Valeh Mehdi, Nassiry Mohamad Reza, Karimi Davood
- 228 Genetic Polymorphism of MTNR1A Locus in Iranian Shal and Karakul Sheep
Ghiasi Heydar, Nasiry Mohamad Reza, Mousavizadeh Abdol Azim
- 229 Study of the Bone Morphogenetic Protein 15 (BMP15) Mutation in Moghani Sheep using RFLP Method
Nemati Zabihollah, Barzegari Abolfazl

Poster Sessions
Tuesday 13:00 - Wednesday 12:30

FLORAL HALL

EVALUATION OF TREATED FEEDS

Poster viewing, authors in attendance

Discussion Wednesday 10:25-11:00 hours

Chair: Dr Danesh Mesgaran

- 230 Evaluation of microwave irradiation effects on nutritive value of Broom Sorghum grain using *in vitro* gas production technique
Parnian Farhad, Taghizadeh Akbar
- 231 Disappearance of dry matter and neutral detergent fibre (NDF) of sunflower meal treated with sodium hydroxide or formaldehyde by isolated mixed rumen bacteria using *in vitro* culture
Danesh Mesgaran M., Mohammadabadi T., Heravi Moussavi A., Nassiri M.
- 232 Antinutritional factors, ruminal degradation and *in vitro* protein digestibility of gamma irradiated full-fat soybean
Taghinejad Roudbaneh Mehdi, Nikkhah Ali, Sadeghi Ali Asghar, Raisali Gholamreza, Chamani Mohamad
- 233 Effects of different additives on the chemical composition, *in vitro* and *in situ* digestibility of whole crop canola silage
Naserian Abasali, Bohluli Atiyeh
- 234 Evaluation effects of Lucerne hay treated by *Saccharomyces cerevisiae* using *in vitro* gas production technique
Ansari Adel, Taghizadeh Akbar, Janmohamadi Hussein, Zarini Gholamreza
- 235 Evaluation of ensiling on the nutritive value of barley distillers' grains
Kazemi M, Tahmasbi A. M., Valizadeh R, Danesh Mesgaran M, Mojtahedi M, Moheghi M. M.
- 236 Effect of adding different levels of probiotic on *in vitro* gas production
Besharati Maghsood, Taghizadeh Akbar, Ansari Adel
- 237 The effect of silver nano-particles (Nanosilver) on *in vitro* gas production of barley grain and lucerne hay
Faramarzi-Garmroodi A., Danesh Mesgaran M., Jahani Azizabadi H., Vakili A.
- 238 *In situ* dry matter degradable coefficients of whole crop barley silage treated with *Lactobacillus plantarum* or mixed with *Pediococcus pentosaceus* plus *Popionbacter freudenreichii*
Vatandoost M, Danesh Mesgaran M, Heravi Moussavi A, Vakili A
- 239 Antinutritional factors, ruminal degradation and *in vitro* protein digestibility of gamma irradiated canola seed
Ebrahimi Mahmoudabad Sayed Roohollah, Nikkhah Ali, Sadeghi Ali Asghar, Raisali Gohamreza
- 240 Effect of Microbial Inoculants on Ruminal Dry Matter and Nutrients Degradability of Corn Silage Using *in situ* Method in Zel Sheep
Kamarloiey Mahrokh, Teimouri yansari Asadollah

Poster Sessions
Tuesday 13:00 - Wednesday 12:30

FLORAL HALL

EXOTIC FEED EVALUATION

Poster viewing, authors in attendance

Discussion Wednesday 10:25-11:00 hours

Chair: Dr John Cone

- 241 Dry matter degradation of various sources of dried citrus pulp determined with the nylon bag technique
Bayat kohsar javad, tahmasbi Abdolmansour, nasserian abbasali, safari rashid, valizadeh reza
- 242 Fermentation and *in vitro* gas production of untreated and high pressure steam treated sugarcane pith by rumen fungi
Chaji Morteza, Mohammadabadi Tahereh
- 243 Evaluation of nutritional value in some tropical by products using *in vitro* gas production technique
Taghizadeh Akbar, Besharati Maghsood
- 244 Nutritional evaluation of vinasse as a ruminant feed
Iranmehr Mahdieh, Khadem Aliakbar, Rezaian Mohammad, Afzalzadeh Ahmad
- 245 Pistachio hull tannin affected gas production and ammonia concentration during *in vitro* fermentation
bohluli atiyeh, naserian abasali
- 246 Evaluation of nutritive value of white mulberry (*Morus alba*) fruits waste
Mahdavi Ali, Hosseini Sayed Abdollah, Mohiti Asl Maziyar, Lotfolahiya Houshang, Aghashahi Alireza, Hosseini Sayeh Hadi, Mirabdolbaghi Jaleh, Alemi Fatemeh
- 247 Nutritive evaluation of Damascus rose extraction residues: Chemical composition and *in vitro* gas production
Khorami Behzad, Khadem Aliakbar, Fazaeli Hamid, Afzalzadeh Ahmad
- 248 Protein fermentation characteristics in rumen fluid determined with the gas production technique
Cone John, Rodrigues Miguel
- 249 *In vitro* rumen degradability and ammonia level of different spices
Khan Mohammad Mehedi Hasan, Chaudhry Abdul Shakoor, Lima Neto Helio, Virk Muhammed Riaz
- 250 Effects of chemical and physical treatments on *in situ* dry matter degradation parameters of *Lathyrus sativus* (grass pea)
Vahdani Narges, Reza-yazdi kamran, Dehghan-banadaki Mahdi, Moravej Hosein
- 251 Determining of nutritive values of tomato pomace using *in situ* and gas production techniques
Taghizadeh Akbar, Palanghi Valiolah, Safamehr A, Nobakht A, Mehmannaavaz Y, Paya H
- 252 Increasing nutritive value of white grape pomace by ensiling and drying for ruminants nutrition
Golghasemgharebagh Ahad, Pirmohammadi Rasoul, Hamidi Omid
- 253 Evaluation of nutritional values of caraway-seed pulp feeding Holstein dairy cattle
Moheghi M.M, tahmasbi A.M, Nasserian A.A, Kazemi M, Bayat Kohsar J
- 254 Correlation of *in vitro* gas production and *in situ* technique for evaluation of tomato pomace degradability
Safari Rashid, Valizadeh Reza, Tahmasebi Abdolmansoor, Naserian Abasali, Bayat Javad
- 255 *In vitro* gas production technique to determining of nutritive value of various sources of citrus pulp
Bayat kohsar Javad, Tahmasebi Abdolmansour, Nasserian Abasali, Safari Rashid, Valizadeh Reza

WPSA/BSAS Theatre Sessions
Wednesday, 1 April 2009

Waterfront Suite 2

WPSA/BSAS THEATRE PRESENTATIONS

- 256 The influence of thyme and pennyroyal essential oils, found to be effective as acaricides against the poultry red mite (*Dermanyssus gallinae*), on occurrence of taint in hens' eggs
Smith Tegan, George David, Sparagano Olivier, Shiel Robert, Seal Chris, Guy Jonathan
- 257 A genetic-epidemiological model for Marek's Disease in Poultry
Nath Mintu, Bishop Stephen
- 258 Variance component estimation of clutch traits of Iranian native fowl
Ebadi-Tabrizi Alireza, Nejati-Javaremi Ardeshir, Shabani Reyhaneh, Mehri Mehran
- 259 The influence of different levels of dietary fish oil on the performance and Biochemical parameters of broiler chickens
safamehr alireza, aghaei namatolah, mehmannaavaz yosef
- 260 The effects of in ovo feeding of threonine and carbohydrates on growth performance of broiler chickens
Mousavi S. N., Arab Baghi F., Shivazad M., Ghahri H., Foroudi F.
- 261 Intensive selection for growth in broilers has not altered normal feeding behaviour
Howie Jennifer, Tolkamp Bert, Avendano Santiago, Kyriazakis Ilias
- 262 What contributes to differences in phenotypic variation between generations?
Wolc Anna, White Ian, Lisowski Miroslaw, Hill William
- 263 Liquid feed fermented with *Lactobacillus salivarius* reduces susceptibility of broiler chickens to *Salmonella enterica typhimurium* Sal 1344 nalr
Savvidou Soumela, Beal Jane, Brooks Peter, La Ragione Roberto
- 264 The effect of feeding stearidonic acid enriched soya oil to broilers on the fatty acid composition and sensory characteristics of chicken meat
Rymer Caroline, Givens Ian

WPSA/BSAS Poster Session
Tuesday 13:00 - Wednesday 12:30

FLORAL HALL

WPSA/BSAS POSTER

- 265 Bayesian estimation of posterior means of heritability for weight at week 8 in Iranian indigenous chickens using an animal model
Farhangfar Homayoun, Rowlinson Peter, Navidizadeh Mohammad Ebrahim, Mirzaei R.A., Fathi Nasri Mohammad Hassan, Lotfi Noghabi Reza
- 266 Effects of Acute Progesterone Injection on Performance, Plasma Hormones and Ovarian Morphology of Feed-Satiated and Fed Restricted Broiler Breeder hens
Zaghari Mojtaba, Taherkhani Reza, Honarbakhsh Shirin
- 267 Effect of medicinal plants and organic acid on growth performance of Ross broilers
Ziaieh, Karimi Torhizima, Bashtani M, Farhangfar H, Rowlinson P, Zeinalia
- 268 Effects of vitamin E and C supplementation on performance and immune response of broiler chicks.
Hesabinameghi Alireza
- 269 Application of a duplex PCR approach for the specific and simultaneous detection of *Bifidobacterium spp.* and *Lactobacillus spp.* in duodenum, jejunum, ileum and cecum of broilers
Mirhosseini Seyed Ziaeddin, Seidavi Alireza, Shivazad Mahmoud, Chamani Mohammad, Sadeghi Ali Asghar, Pourseify Reza
- 270 Investigation on relative population of *Salmonella spp.* bacteria in duodenum, jejunum, ileum and cecum of poultry using densitometry technique
Seidavi Alireza
- 271 Relative frequency alteration of *Escherichia coli* in broiler intestine
Seidavi Alireza, Mirhosseini Seyed Ziaeddin, Shivazad Mahmoud, Chamani Mohammad, Sadeghi Ali Asghar, Pourseify Reza
- 272 Effects of Dietary Phytase, Calcium and Phosphorus Levels on Performance, and Nutrient utilization in Male Broiler Chickens
Nassiri Moghaddam Hassan, Hassanabadi Ahmad, Alizadeh Ghamsari Amir
- 273 Effects of different levels of canola meal on egg quality
Gaykani Ruhollah, Zaghari Mojtaba, Shivazad Mahmood
- 274 Comparison of the Effects of Different Kinds of NSP Enzymes on the Performance, Litter Moisture and Jejunal Digesta Viscosity of Broilers Fed Barley-Based Diet
Shirzadi Hassan, Moravej Hossein, Shivazad Mahmoud
- 275 Modelling and optimising early performance for broiler chicks
Ahmadi Hamed, Golian Abolghasem
- 276 Effect of various Lactobacillus administration methods in hatchery on serum cholesterol levels of broiler chickens
Hashemzadeh Zobeideh, Karimi Torshizi Mohammad Amir, Rahimi Shaban
- 277 Comparison of various methods of probiotic administration in hatchery against Salmonella infection in broiler chicks
Hashemzadeh Zobeideh, Karimi Torshizi Mohammad Amir, Rahimi Shaban, Zahraei Salehi Taghi
- 278 Modifying egg fatty acids content with supplementation of palm olein oil (POO) in laying hen diet
Hosseini Vashan Seyed Javad, Afzali Nazar, Golian Abolghasem, Malekaneh Mohammad, Allahressani Ali

WPSA/BSAS POSTER

- 279 Analysis of Inbreeding, Effective Population Size and Inbreeding Depression in Iranian Native Fowls(Mazandaran Province)
Ghazi Khani Shad Ali, Nejati Javaremi Ardeshir, Mehrabani Yeganeh Hassan
- 280 Evaluation the effect of fat and antioxidant on immune response of broiler chickens reared under heat stress
Ghofrani Ivary Yaser, Shariatmadari Farid, Karimi Torshizi Mohammad Amir, Armin Fatemeh
- 281 White mulberry (*Morus alba*) fruits waste and its use in broilers nutrition
Mahdavi Ali, Hosseini Sayed Abdollah, Mohiti Asl Maziyar, Lotfolahiyan Houshang, Aghashahi Alireza, Hosseini Sayed Hadi, Mirabdolbaghi Jaleh, Alemi Fatemeh
- 282 Effect of various levels of Full-Fat Sunflower Seed on performance of broiler chickens
Salari Somayyeh, Nassiri Moghadam Hasan, Arshami javad, Golyan Abolghasem, Sari Mohsen
- 283 Determination of apparent metabolizable energy of Full-Fat Sunflower Seed in broiler chickens
Salari Somayyeh, Nassiri Moghadam Hasan, Arshami Javad, Golyan Abolghasem, Sari Mohsen
- 284 Growth performance of broilers consuming wheat or barley based diets with or without enzyme
Anjum Muhammad Safdar, Chaudhry Abdul Shakoor, Virk Muhammad Riaz
- 285 Effects of antibiotic and probiotic supplementation to diets containing fat on broiler performance
Sharifi Seyed Davood, Tavazoe Ehsan, Khdem Ali Akbar, Barin Abbas
- 286 Can medicinal plants with antimicrobial properties be replacment for antibiotics in broiler production?
Sharifi Seyed Davood, Khorsandi saeedeh, Khadem Ali Akbar, Salehi Abdolreza
- 287 Effects of enzyme and probiotic supplementation to diets containing wheat on broiler performance
Sharifi Seyed Davood, Hashemi Chelavi Nargess
- 288 Effect of different digestible lysine levels on performance, and blood parameters of broilers in starter
Alemi Fatemeh, Shivazad Mahmoud, Zaghari Mojtaba, Moravej Hossein, Mahdavi Ali, Hosseini Sayed Abdollah, Mahdavi Ala
- 289 The effects of dietary electrolyte balance on the performance and eggshell quality of laying hens exposed to heat-stress environment in late laying period
safamehr alireza, Nobakht Ali
- 290 Dietary digestible lysine effects on growth and immune response of male and female broilers in starter
Alemi Fatemeh, Shivazad Mahmoud, Zaghari Mojtaba, Moravej Hossein, Mahdavi Ali, Hosseini Sayed Abdollah, Mahdavi Ala
- 291 Effect of prebiotic(Fermacto) on performance of broiler chicks in low protein diets
Amirdahri Saeid, Janmohammadi Hossein, Taghizadeh Akbar, Rafat Abbas
- 292 Effect of prebiotic(Fermacto) on lipid profile of broiler chicks
Amirdahri Saeid, Janmohammadi Hossein, Taghizadeh Akbar, Estakhri Rassul, Rafat Abbas
- 293 Comparison of digestibility coefficients of amino acids in canola meal between intact and caecectomised adult cockerels
Nouri Emamzadeh Ali, Yaghobfar Akbar
- 294 Ileal crude protein digestibility, caecal crude protein retention and digesta viscosity in broilers fed enzyme supplemented rice husk
Ofongo Seimiyeenkumo Taria, Kehraus Saskia, Iyayi Eustace Ayemere, Südekum Karl-Heinz
- 295 Immunomodulatory effects of dietary *Allium cepa* in chicken after immunization
Hanieh Hamza, Kondo Yasuhiro, Abe Asaki

WPSA/BSAS POSTER

- 296 Nutritive Value of Poultry By-Product Meal from Iran in Broilers Feeding
Janmohammadi Hossein, Taghizadeh Akbar, Moghadam Gholam Ali, Pirani Nasrollah, Ostan Shahin, Sahraei Mahmmod
- 297 Effects of addition of Natuzyme® to broiler diets containing different levels of canola meal
Mousavi Sayed Naser, Nadalian Mehdi, Lotfollahian Hooshang, Noori Mohsen
- 298 The effects of multi-enzyme addition on performance of broiler chickens
Hajati Hosna, Rezaei Mansour, Sayyahzadeh Hady
- 299 Effects of antibiotic and probiotic and fat source on broiler performance
Dibamehr Amin, Sharifi Seyed Davood, Lotfollahyan Houshang, Zargaran esfahani Hamed
- 300 Enrichment with long chain omega-3 fatty acids and sensory evaluation of chicken meat
Mirghelenj Seyyed Ali, Golian Abolghasem, Taghizadeh Vahid
- 301 Determination of chemical composition and metabolizable energy of wastes of spaghetti, pasta, biscuit, crisp, chickpea pre-cleaning and chickpea screening plants
Abdi Ghezaljehe Einollah
- 302 Effects of Microbial Phytase supplementation on growth performance Ca and P content of blood serum and in broiler chicks
Mirghelenj Seyyed Ali, Musavi Abazar, Abdi Ghezaljehe Einollah
- 303 Effects of cecal cultures and Aspergillus meal prebiotic on serum lipids of broiler chickens
Piray Ali hussein, Kermanshahi Hassan
- 304 The effect of different lightning programs on reproductive performance of native turkeys
Shakooryi Seyed Mortaza, Abdi Ghezaljehe Einollah, Mirghelenj Seyyed Ali
- 305 Effects of butyric acid, mannanoligosaccharide (MOS) and avilamycin on performance and small intestine morphology of broiler chickens
Mousavi Sayed Naser, Shivazad Mahmood, Ghazvini Nosrat
- 306 Effects of β -Mannanase on Broiler Gut Morphology
mehri morteza, adibmoradi masoud, samie abdolhossein
- 307 Growth curve Models for commercial pullets under severe heat stress condition
Fayazi Jamal, Ghorbani M. Reza, Nazari Mahmood, Momeni Jamal, Jaferian Amir, Aghaei Ali
- 308 The effect of increasing levels of fish oil on some immune responses of broiler chickens
Al-Khalifa Hanan, Givens Ian, Rymer Caroline, Yaqoob Parveen, juniper Darren
- 309 Effects of β -Mannanase on Broiler Immune System
mehri morteza, adibmoradi masoud, samie abdolhossein
- 310 The effect of microbial feed additive on physiological parameters, carcass characterizes and Ileal pH in broiler
ghaderi juybari mehdi, irani mehrdad, rezaei pour vahid, saharkhiz bandforuzi kamal
- 311 Effect of dietary Phytase and NSP-degrading enzymes in diets containing rape seed meal on broiler performance
Ghorbani Mohammad Reza, Fayazi Jamal, Chaji Morteza
- 312 Effect of dietary Phytase and NSP-degrading enzymes in diets containing rape seed meal on broiler carcass characteristics
Ghorbani Mohammad Reza, Fayazi Jamal, Chaji Morteza

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