

Scientific Program of 18th European Symposium On Poultry Nutrition- 2011

31 OCTOBER, MONDAY

17.15-18.00 Opening Ceremony (Arkhe Convention Hall)

Chair: Prof.Dr. Nizamettin Şenköylü

Prof.Dr. Rüveyde Akbay President of Turkish Branch of WPSA

Dr. Yves Nys President of European Federation of WPSA

Dr.Sanna Steinfeldt Chair of WPSA European Federation Working Group 2, Nutrition

Dr.M. Mehdi Eker Minister of Food, Agriculture and Livestock

18.30-20.00 Welcome Reception

1 NOVEMBER, TUESDAY

09.00-12.00 Session 1: Early Nutrition and Growth (Arkhe Convention Hall)

Chair: Prof.Dr. René Kwakkel

Co-chair: Prof. Dr. Ahmet Ergün

09.00-09.30 Breeder nutrition and early growth traits of broiler chicks

Assoc. Prof. Dr. Robert A. Renema, University of Alberta, Canada

09.30-10.00 Early Nutrition-Past, Present and Future

Dr. Yael Noy, Miloubar Central Feed Mill, Israel

10.00-11.00 Group Discussion

11.00-12.00 Plenary Discussion (**Arkhe Convention Hall**)

12.00-13.30 Lunch

13.30-17.45 Session 2: Feed Quality and Food Safety (Arkhe Convention Hall)

Chair: Prof.Dr. Haitham Mohammed Yakout

Co-chair: Prof. Dr. Hasan Rüştü Kutlu

13.30-14.00 Egg and meat safety and feed approaches for the control of Salmonella

Prof. Dr. Richard Ducatelle, Ghent University, Belgium

14.00-14.30 Effects of coccidiostatic vaccines on feed composition with emphasis on raw materials and enzyme usage

Prof. Dr. Joaquim Brufau, Institut de Recercai Tecnologia Agroalimentàries (IRTA), Spain

14.30-15.00 Feed from GM-plants in poultry nutrition and future challenges

Prof. Dr. Gerhard Flachowsky, Federal Agricultural Research Centre (FAL), Germany

15.00-16.00 Group Discussion

16.00-17.00 Plenary Discussion (**Arkhe Convention Hall**)

17.00-17.40 Short Communications (Arkhe Convention Hall)

Chair: Prof.Dr. Birger Svihus

17.00-17.05 Manufacturing techniques to improve pellet quality of commercial turkey diet formulations and six week male poult performance

Kelley Lilly; Laurel Shires; Brittany Swiger; Ashley Evans; Kevin Shipe; Joseph Moritz

17.05-17.10 Effect of maize endosperm hardness, drying temperature and microbial phytase and xylanase supplementation on amino acid availability and phytate phosphorus hydrolysis in broilers

Sebastian Kaczmarek; Aaron Cowieson; Andrzej Rutkowski

17.10-17.15 The impact of Ca- and P- concentration, vitamin D3 and phytase level in the diet on performance and retention in broiler chickens

Evelyne Delezie; Luc Maertens; Gerard Huyghebaert

17.15-17.20 Comparison of P availability of two phosphate sources determined on the basis of total retention and digestibility at the end of ileum in broilers

Yauheni Shastak; Maren Witzig; Markus Rodehutschord

17.20-17.25 Potential impact of xylanase-inhibitors presence in the action of exogenous polysaccharidases on nutritive value of barley diets for broiler

Anna M. Pérez-Vendrell; Eduardo Angulo; Joaquim Brufau de Barberà

17.25-17.30 Comparison of Nanosilver and some in-feed disinfectants on layer performance, selected intestinal bacteria and villus morphology

Fathollah Nagizadeh; Mohammad Amir Karimi Torshizi; Shaban Rahimi; Mohammad Medhi Nabi

17.30-17.35 Influence of hydrocolloidal silver nanoparticles on gastro-intestinal microflora and immune status of broiler chickens

Charlotte Lauridsen; Ricarda Margarete Engberg; Lane Pineda; Andre Chwalibog

17.35-17.40 Questions

2 NOVEMBER, WEDNESDAY

08.30-12.45 Session 3: Nutrient-Gene Interactions (Arkhe Convention Hall)

Chair: Dr. Colin Fisher

Co-chair: Prof. Dr. Kazım Şahin

08.30-09.00 Nutrigenomics and epigenetic in poultry

Assoc. Prof. Dr. Chris M. Ashwell, North Carolina State University, USA

09.00-09.30 Combining functional and positional genomics for understanding nutrient-gene interactions

Dr. Michel Duclos, INRA, France

09.30-10.00 Amino acid nutrition and gene expression in poultry

Dr. Sophie Tesseraud, INRA, France

10.00-11.00 Group Discussion

11.00-12.00 Plenary Discussion (**Arkhe Convention Hall**)

12.00-12.45 Short Communications (Arkhe Convention Hall)

Chair: Prof.Dr.Nizamettin Şenköylü

12.00-12.05 Model to estimate lysine requirements for broiler breeder hens
Edney Pereira da Silva; Nilva Kazue Sakomura; Cleber Franklin Santos de Oliveira; Fernando Guilherme Perazzo Costa; Robert Gouse; Luciano Hauschild

12.05-12.10 Interactive effects of digestible Val and Ile ratios with Ross x Ross 708 male broilers from 26 to 41 d of age
William Dozier III; Paul Tillman; James Usry

12.10-12.15 Isoleucine requirement in a diet for broilers from 15 to 29 days of age
Ariane Helmbrecht, Christian Elwert, János Tossenberger, Andreas Lemme

12.15-12.20 Effects of different energy to amino acids ratios and BW at 20 wks. on body composition and performance in broiler breeder females during the rearing period
Rick van Emous; Rene Kwakkel; Marinus van Krimpen

12.20-12.25 Standardized ileal digestibility (SID) of wheat distillers dried grains with solubles (DDGS) in male growing turkeys
Krzysztof Kozowski, Ariane Helmbrecht, Andreas Lemme, Jan Jankowski, Heinz Jeroch

12.25-12.30 The effect of full-fat rapeseed grinding and carbohydrase supplementation on broiler chicken performance
Sebastian Kaczmarek; Damian Józefiak; Andrzej Rutkowski

12.30-12.35 Metabolisable energy content and starch digestibility of DDGS and rapeseed cake samples, determined with broiler chicks
Karoly Dublicz, Laszlo Pal, Laszlo Wagner, Robert Farkas, Ferenc Husveth

12.35-12.40 Effect of high digestible essential amino acids on egg quality and production performances of laying hens
Keatisak Soisuwan; Nantana Chauchuwong

12.40-12.45 Questions

12.45-14.00 Lunch

**14.00-15.00 PRESENTATION of AWARDED NUTRITIONIST by DSM
(Arkhe Convention Hall)**

15.00-15.15 Coffee Break

**15.15-18.15 Session 4: New Approaches in Poultry Feed Production and Technology
(Arkhe Convention Hall)**

Chair: Prof.Dr Marcus Rodehutschord

Co-chair: Prof. Dr. Nihat Özen

15.15-15.45 Feed processing - impacts on nutritive value and hygienic status of poultry feeds
Dr. Manfred Peisker, ADM BioProducts, Germany

15.45-16.15 The interaction between starch, pelleting and broiler performance
Prof. Dr. Birger Svihus, Norwegian University of Life Sciences, Norway

16.15-16.45 Effects of feed manufacturing on nutrient requirements of poultry
Assoc. Prof. Dr. J. S. Moritz, West Virginia University, USA

16.45-17.30 Group Discussion

17.30-18.15 Plenary Discussion (**Arkhe Convention Hall**)

3 NOVEMBER, THURSDAY

08.30-12.45 Session 5: Poultry Nutrition and Animal Health (Arkhe Convention Hall)

Chair: Prof. Dr. Colin Whitehead

Co-chair: Prof. Dr. Şakir Doğan Tuncer

08.30-09.00 Interrelationship of Nutrition and Immunity

Prof. Dr. Gary D. Butcher, University of Florida, USA

09.00-09.30 Development of immunity in poultry with special emphasis on developmental adaptations of immunity in the avian digestive tract

Prof. Dr. Aharon Friedman, Hebrew University, Israel

09.30-10.00 Nutrition-disease interactions regarding gut health in chickens

Prof. Dr. Peter Ferket, North Carolina State University, USA

10.00-11.00 Group Discussion

11.00-11.45 Plenary Discussion (**Arkhe Convention Hall**)

11.45-12.30 Short Communications (Arkhe Convention Hall)

Chair: Prof. Dr. Richard Ducatelle

11.45-11.50 Effects of low calcium and available phosphorus diets on performance, skeletal characteristics and welfare parameters of broilers

Leonardo Linares; Siobhan Carroll; Carolyne Kemp; Colin Fisher

11.50-11.55 Effects of high fibre diets on gut fill, behaviour and productivity in broiler breeders

Sanna Steinfeldt; Birte Lindstrøm Nielsen

11.55-12.00 Unpredictable and repeated negative stimuli induce negative consequences on feeding behaviour in quail

Favreau-Peigné Angélique; Boissy Alain; Calandreau Ludovic; Gaultier Bernard; Constantin Paul; Bertin Aline; Arnould Cécile; Mercierand Frédéric; Lumineau Sophie; Laurence Agathe; Houdelier Cecilia; Richard Yris Marie Annick; Leterrier Christine

12.00-12.05 The use of feed enzymes to ameliorate foot pad dermatitis in broiler chickens

Özcan Cengiz; Joseph B. Hess; Sacit F. Bilgili

12.05-12.10 Effect of various sources of chlorella supplementation on performance, serum characteristics, and intestinal micro flora concentration of broiler chickens

Hwan Ku Kang; Hossan Md. Salim; Nazma Akter; Jae Cheon Na; Dong Wook Kim; Han Tae Bang; Min Ji Kim; Hyun Suk Chae; Hee Chol Choi; Ok Suk Suh

12.10-12.15 The use of *Artemisia annua* in the prevention of necrotic enteritis in a broiler disease model

Ricarda Margarete Engberg; Kai Grevsen; Elise Ivarsen; Xavier Fretté; Lars Porskjær Christensen

12.15-12.20 Effect of varying levels of butyric acid glycerides on performance, immune responses and jejunal epithelium morphology of broiler chicks

Rahman Jahanian

12.20-12.25 Effects of dietary supplementation with a specific essential oil blend on performance of broilers after an experimental infection with mixed Eimeria Spp

Mehmet Bozkurt; Nuran Selek; Kamil Küçükylmaz; Hasan Eren; Esin Güven; Abdullah Uğur Çatl; Mustafa Çınar

12.25-12.30 Questions

12.30-14.00 Lunch

13.00-16.00 Satellite Seminars (Arkhe Convention Hall)

13.45-15.15 Biomin

15.15-16.45 DSM

14.00-18.30 Excursions

20.00- GALA DINNER

4 NOVEMBER, FRIDAY

08.30-12.00 Session 6: Poultry Nutrition and Animal Welfare (Arkhe Convention Hall)

Chair: Dr Sanna Steinfeldt

Co-chair: Prof.Dr. Servet Yalçın

08.30-09.00 Feeding behaviour in turkey is linked with the physical characteristics of the feed
Dr. Isabelle Bouvarel and Dr. Christine Leterrier, ITAVI and INRA, France

09.00-09.30 Possibilities to influence feather pecking and cannibalism of hens through feeding
Prof. Dr. Werner Bessei, Hohenheim University, Germany

09.30-10.00 Feeding broiler breeders in relation to welfare aspects

Dr. Ingrid de Jong and Dr. Marinus M. van Krimpen, Wageningen UR Livestock Research, The Netherlands

10.00-10.45 Group Discussion

10.45-11.30 Plenary Discussion (**Arkhe Convention Hall**)

11.30-12.00 Closing Ceremony (**Arkhe Convention Hall**)

Poster Presentations

TUESDAY and WEDNESDAY (1 - 2 NOVEMBER, 2011)

- P001 Is there a synergy between xylanase and protease on sorghum distillers' dried grains with solubles for broiler chickens?
Mohammad Reza Barekatin; Mingan Choct; Paul A. Iji
- P002 The influence of dietary inclusion of propylthiouracil and different energy levels on semen traits of broilers
Shahram Golzar Adabi; Farid Moslemipur; Mohammad Ali Kamali; Ross Gordon Cooper; Jaber Davoudi
- P003 Impact of partial replacement of yellow corn with dried distilled grains with solubles at starting and/or growing periods on broilers performance
Mohamed Nabil Makled; Mahmoud Ali Abdelnabi; Ali Elsaid Galal
- P004 Effect of boric acid and ascorbic acid on MDA (Malondialdehyd) levels in broilers
Özge Sizmaz; Gültekin Yildiz
- P005 Black cumin seeds, Artemisia leave (Artemisia Sieberi) and Camellia L. plant extract as a phytogetic products in broiler diets and their effects on performance, blood constituents, immunity and cecal microbial population
Saeed Khalaji; Mojtaba Zaghari; KHaled Hatam; Sedighe Heydari-Dastjerdi
- P006 The influence of dietary fiber sources on performance and plasma hormones and metabolites of broiler breeder females during laying period
Soudabeh Moradi; Mojtaba Zaghari; Mahmoud Shivazad; Rahim Osfoori; Mohsen Mardi
- P007 A novel alpha-galactosidase enzyme complex improves the performance and productivity of broiler chickens
Sara Llamas-Moya; Greg F. Mathis, Brett S. Lumpkins; Clive P. Girdler
- P008 Effect of constant and cyclic environmental temperatures, dietary protein and lysine levels on the reproductive performance of broiler breeders
Abdulameer Alsaffar
- P009 A study into the effects of including a novel yeast cell wall technology in broiler diets on their gut histology
Harriet Lea; Zoe Kay; Emily Burton
- P010 Effects of diet composition and litter quality on development and severity of foot pad dermatitis (FPD) in young fattening turkeys
Ibrahim M. I. Youssef; Andreas Beineke; Karl Rohn; Josef Kamphues
- P011 Influence of Vitamin B12 and Cobalt on growth of broiler chickens and Pekin ducks
Ingrid Halle
- P012 Influence of Vitamin B12 and Cobalt on laying performance of hens
Ingrid Halle
- P013 Effect of the addition of an endo-xylanase in wheat based diets on production performance of turkeys
Cees Kwakernaak; Jan Dirk van der Klis; Jiri Broz
- P014 Higher in vivo efficacy of an E.coli-6-phytase versus an aspergillus-3-phytase
Cees Kwakernaak, Jan Dirk van der Klis; Anne Marie Debicki-Garnier
- P015 Effect of different levels of cinnamon powder and fish oil on growth performance in broilers
Nazar Afzali; Zeinab moradi
- P016 Effects of different sodium and potassium contents in the diet and of floor heating on development and severity of foot pad dermatitis in young fattening turkeys
Amr Abd El-Wahab, Christian Visscher, Andreas Beineke, Martin Beyerbach, Josef Kamphues

- P017 Effect of the heat stress and antioxidant on oxidative stability of thigh chicken meat
Farid Shariatmadari; Yaser Ghofrani Ivvari; Mohammad Amir Karimi Torshizi
- P018 Effects of supplementation of black cumin (*Nigella Sativa*) and *Artemisia* leave (*Artemisia Sieberi*) as an alternative to antibiotics on performance, immune response and gut health of broiler chicks
Mojtaba Zaghari; Sedigheh Heidari-Dastjerdi; Leila Lotfi; Saeed Khalaji
- P019 The effect of citric acid on performance of broilers fed a lysine deficient diet
Meysam Tavakoli; Mojtaba Zaghari; Mahmood Shivazad
- P020 Vegetable protein versus processed animal protein in laying hen diets
Teun Veldkamp; Marinus van Krimpen
- P021 Sweet chestnut tannin supplementation as a way to reduce the incidence of foot pad dermatitis of broiler chickens
Federico Sirri; Stefano Pignata; Achille Franchini; Adele Meluzzi
- P022 Effect of heating system using a geothermal heat pump on the production performance and housing environment of broiler chickens
Hee Chul Choi; Hossan Md. Salim; Nazma Akter; Jae Cheon Na; Hwan Ku Kang; Min Ji. Kim; Dong Wook Kim; Han Tae Bang; Hyun Seok Chae; Ok Suk Suh
- P023 The humate: A new metabolic regulator in poultry feeding
Hatice Iskender; Armagan Hayirli
- P024 Heavy metal toxications in poultry: A particular emphasize on lead
Hatice Iskender; Armagan Hayirli
- P025 Effects of cold conditioning during late embryogenesis and posthatch feed restriction on performance and immune status of broilers
Rasool Karimi; Mohammad Hosein Shahir; Taher Harkinezhad
- P026 Effect of supplemental organic and inorganic copper sources on performance, immune responses and blood parameters in broiler chicks
Mohammad Reza Saidi Kalvari; Abdolhosein Samie; Mohammad Ali Edriss; Rahman Jahanian
- P027 Villus height and crypt depth of embryos and chicks according to the breeder age and digestible sulfur amino acids supplementation in pre starter ration
Jose Henrique Stringhini; Lidia Lopes Ferreira; Bruno Moreira dos Santos; Lia Sayuri Inumaru; Maria Auxiliadora Andrade; Samuel Leão Aguilár
- P028 Comparison of two medicinal plant probiotics on broiler performances and meat quality
Md. Elias Hossain, Gwi Man Kim, Hoon Ji, Chul Ju Yang
- P029 Amelioration of aflatoxicosis in Japanese quail by a *Bacillus* isolate
Farzad Bagherzadeh Kasmani; Mohammad Amir Karimi Torshizi; Abdolamir Allameh; Farid Shariatmadari
- P030 Effect of various levels of organic zinc on tissue zinc content, meat quality and sensory characteristics of female broiler chickens
Hossan Md. Salim; Hak Rim Lee; Cheorun Jo; Soo Kee Lee; Bong Duk Lee
- P031 Influence of two medicinal herbs powder on plasma malon-dialdehyde and some biochemical blood parameters in broiler chickens under heat stress
Massomaeh Valavi; Hadi Sarir; Nazar Afzali; Javad Hossaini Vashan; Hadi Ghanbarzadeh
- P032 Effect of the calcium source on layer performance and egg shell quality
Georgeta Ciurescu; Anca Gheorghe Nedeljka Spasevski
- P033 Effect of *Bacillus subtilis* PB6 on performance of laying hens
Evelyne Delezie; Liesbet Thijs; Luc Maertens; S. Decampeneere
- P034 Amino acid analysis of feeds
László Wágner, Károly Duplecz, Ferenc Husvéth, László Pál, László Kodrik, Róbert Farkas, Eszter Galamb, and Gellért Kovács

- P035 Effect of a combination of hydrolysed fatty acids on performance of broiler chickens fed wheat-based diets which included narasin-nicarbazin combination to 28 days
Christophe P. Bostvironnois ; William G. C. Appleby; Anne I. Knox; Kim G. Friesen; Thomas A. Marsteller
- P036 Effect of a specific combination of hydrolysed fatty acids on performance and carcass quality of broiler chickens fed corn-based diets
Christophe P. Bostvironnois, Amy L. Marr, Kim G. Friesen, S. W. Davis, Thomas A. Marsteller
- P037 The colour of eggs and egg products: Comparison of the available methods
Catherine Hamelin; Jose-Maria Hernandez
- P038 Effect of enzyme supplementation on nutrient digestibility, intestinal and blood parameters of broilers fed a wheat-based diet
Natasja Smeets, Filip Nuyens, Leen Van Campenhout, Theo Niewold
- P039 Effects of a wet and/or high energy to protein ratio diet on performance of indigenous and broiler chickens reared under tropical climatic conditions
Syafwan Syafwan; Rene Peter Kwakkel; Martin W.a. Verstegen
- P040 A new breakthrough for poultry producers to manage coccidiosis using plant extracts
Forat Miguel; Gozlan Bernard; Clément Francis; Recoquillay François
- P041 The use of sodium diformate in broiler nutrition – a nutrient matrix approach
Christian Lückstädt
- P042 Effect of different levels of dried tomato pulp and enzyme supplementation on biochemical blood biochemical parameters of broiler chicks
Hadi Ghanbarzadaeh; Nazar Afzali; Hamidreza Doosti; Mohammad Bahari; Mehdi Dadi; Mostafa Dashtban; Mohsen Amoli
- P043 Effect of different levels of dried tomato pomace and enzyme supplementation on carcass characteristics of broiler chicks
Hadi Ghanbarzadaeh; Nazar Afzali; Hamidreza Doosti; Hossain Naimipoor; Mohammad Haghghat; Mehdi Dadi
- P044 The effect of fish oil in broiler diets on performance and health status
Sven De Vos; Luc Maertens
- P045 Choice feeding under heat stress conditions in broilers from 14 to 35 days of age
Ariane Helmbrecht; Torben G. Madsen; Saksit Srinongkote; Andreas Lemme
- P046 Dose-response effect of dietary N,N-dimethylglycine (DMG) supplementation in broilers
Luc Maertens; Evelyne Delezie; Angelo Lauwaerts
- P047 Dietary biotin supplementation does not alleviate the development of foot pad dermatitis in broiler chickens
Özcan Cengiz; Joseph B. Hess; Sacit F. Bilgili
- P048 Effect of high dietary vitamin E on blood antioxidant status in broiler chicks
Ramezan Ali Jafari; Rezvan Kiani; Ali Shahriyari; Farzad Asadi; Hossein Hamidi-Nejat
- P049 The effect of raw and oven-heated grass pea seed levels on blood parameters of laying hens
Amin Taheri; Seyed Mohammad Hosseini
- P050 Usage of *Thymus vulgaris* extracts in drinking water and its evaluation on growth performance of broiler chickens
Mostafa Dashtbane Jamia; Seyed Mohammad Hosseini; Nazar Afzalia
- P051 Effect of different levels of dried apple pulp and enzyme on performance broiler chicks in grower period
Nazar Afzali; Hadi Ghanbarzadaeh; Arash omidi; homayoon farhangfar; Masoomaeh valavi

- P052 Influence of high dietary vitamin E on oxidative stress induced by *Eimeria tenella* infection in broiler chicks
Ramezan Ali Jafari; Rezvan Kiani; Ali Shahriyari; Farzad Asadi; Hossein Hamidi-Nejat
- P053 Effect of dietary energy to digestible methionine ratio on performance of organic housed laying hens
Marinus van Krimpen; Gisabeth Binnendijk; Modupeore Ogun ; René Kwakkel
- P054 Dietary fibre supply in furnished cages
Robin Kalmendal
- P055 The efficacy of a *Clostridium butyricum* probiotic, on the colonization of the caecum of broiler chickens after infection with *Salmonella* Enteritidis
Monita Vereecken; Dennis Smulders; Koen De Gussem
- P056 Lysine requirements of pullet hens according to age, protein deposition and dietary lysine efficiency
José Anchieta de Araujo; Nilva Kazue Sakomura; Edney Pereira da Silva; Luciano Hauschild, Frank Liebert; Angela Sünder
- P057 Dietary Threonine Levels for broiler breeder hens
Luciano Hauschild; Nilva Kazue Sakomura; Fernando Guilherme Perazzo Costa; Cleber Franklin Santos de Oliveira; Daniella Carolina Zanardo Donato; Robert Gous
- P058 Model to estimate lysine requirements for broiler breeder hens
Edney Pereira da Silva ; Nilva Kazue Sakomura ; Cleber Franklin Santos de Oliveira; Fernando Guilherme Perazzo Costa ; Robert Gous ; Luciano Hauschild
- P059 Comparative study of the efficiency of two mixtures of essential oils with organic acids and avilamycin on growth performance and diet digestibility in broilers
Hadj Ayed Madiha; Abdouli Hédi
- P060 Efficiency of substituting partially local faba beans (*Vicia faba* var *minor*) for soybean meal on growth performance, digestibility and carcass yield in local Tunisian chickens managed outdoors in free area
Hadj Ayed Madiha; Villamide Maria Jesús; Khemaies Kraïem
- P061 Dolomite as natural local source of calcium in broiler diets
Anca Gheorghe; Georgeta Ciurescu ; Daniela Marin ; Arabela Untea ; Slavica Sredanovic; Vasile Mihoc
- P062 Arresting shell failure through nutrition – an ultrastructural evaluation
Sally Elizabeth Solomon
- P063 Can *Tribulus terrestris* increase serum testosterone level in cocks?
Siavash Askari; Mohamad Amir KarimiTorshizi; Ali Niknam; Mina Hoseinzade
- P064 Effect of a formulation of essential oil compounds and benzoic acid on performance, intestinal microbiota composition and morphology of turkey poults
Ilias Alexandros Giannenas; Eleftherios Triantafillou; Efstathios Chronis; Stavros Tselepidis; Antoine Meuter
- P065 Assessment of dietary supplementation with probiotics, on growth performance and intestinal morphology of chickens infected with *Eimeria tenella*, *Eimeria acervulina* and *Eimeria maxima*
Ilias Alexandros Giannenas; Eleftheria Tsalie; Elias Papadopoulos; Dimitrios Tontis; Klaus Teichmann; Sabine Henikl; Ilias Kyriazakis

Poster presentations

THURSDAY and FRIDAY (3 - 4 NOVEMBER, 2011)

- P066 Effect of soy isoflavone genistein on lymphoid organs weight and immunocompetence of broiler chickens
Elham Rasouli; Rahman Jahanian
- P067 Application of the guanidino acetic acid as creatine source in broilers fed diets with or without fish

meal

Andreas Lemme; Christian Elwert; Ricardo Gobbi; Meike Rademacher

- P068 Binding capacity of organic mycotoxin binders is greater than inorganic aluminosilicate- based binders under in vitro condition
Rahman Jahanian
- P069 Interacted effects of dietary arginine and threonine on humoral and cellular immune responses of broiler chicks
Rahman Jahanian
- P070 Effect of varying levels of butyric acid glycerides on performance, immune responses and jejunal epithelium morphology of broiler chicks
Rahman Jahanian
- P071 Calcitriol supplementation of broiler breeders' rations alleviates calcium and phosphorus deficiency in their progenies
Rahman Jahanian
- P072 Effect of dietary supplementation of organic chromium and vitamin C on performance and egg quality of laying hens subjected to high stocking density
Ehsan Mirfendereski; Rahman Jahanian
- P073 Effect of dietary chromium-methionine and vitamin C supplementation on immunological responses, blood metabolites and stress status of high stocking density-challenged laying hens
Ehsan Mirfendereski; Rahman Jahanian
- P074 Effect of dietary supplementation of organic chromium on performance, immune responses and some blood parameters in broiler chicks
Ehsan Pouladi; Rahman Jahanian; Abdol-Hossein Samie
- P075 Effect of different levels of turmeric (*Curcuma longa*) powder on immunological responses and carcass oxidative stability of broiler chickens
Rahman Jahanian; Elham Rasouli
- P076 Effects of inorganic sources of zinc, copper and manganese on performance and egg quality of laying hens at late egg production
Jalil Mactobian; Rahman Jahanian
- P077 Interacted effects of organic zinc, copper and manganese on performance, immune responses and egg quality of aged-laying hens
Jalil Mactobian; Rahman Jahanian
- P078 The effect of a natural carbohydrate fraction on broiler performance
Zoe Kay; Farina Khattak; Judd Culver; Lode Nollet
- P079 The effect of a by-product of solid state fermentation on the performance of broilers fed wheat based diets
Zoe Kay; Farina Khattak Judd Culver ; Peter Spring
- P080 The effect of commercial phytase on the performance of broilers fed reformulated diets based on two varieties of wheat
Lode Nollet; Peter Spring; Bruno Goddeeris
- P081 Effect of silver and gold nanoparticles on metabolic rate and development of broiler and layer embryos
Lane Pineda; Ewa Sawosz; Anna Hotowy; Jan Elnif; Filip Sawosz; Abdalla Ali; Andrè Chwalibog
- P082 Amino acid and stocking density effects on growth performance and immune response of broilers
Seyed Naser Mousavi; Saman Zokaie; Kazem Karimi
- P083 Effect of early feeding on production parameters of broiler chicks
László Pál; Yan Liu; Károly Dubblecz; Ferenc Husvéth
- P084 Nutritional value of lysophospholipids in broiler diets
Filip Nuyens; Bart Vennekens; Natalia Soares
- P085 Effect of silver nanoparticles on nitrogen utilization and growth performance of broiler chicken
Lane Pineda; Ewa Sawosz; Anna Hotowy; Jan Elnif; Filip Sawosz; Abdalla Ali; Yuhong Gao; André Chwalibog

- P086 Effects of carbohydrate injection in long-term stored broiler breeder eggs on hatchability, chick weight at hatch and incubation time
Seyed Naser Mousavi; Amir Hossein Ebrahimi; Maryam Eidi; Ali Anissian; Ahmad Salahi
- P087 A comparison of feeding multi-probiotics, fermented ginseng byproducts and fermented sulfone on performance, intestinal microflora and fecal gas emission in broiler chicks
Yong Dae Jeong; Md. Rakibul Hassan; Kyeong Seon Ryu
- P088 Efficacy of *Escherichia coli* phytase in growing turkeys
Krzysztof Kozłowski; Jan Jankowski; Heinz Jeroch; Zenon Zduńczyk; Monita Vereecken; Agata Lecewicz; Karel Bierman
- P089 HMTBA protects intestinal epithelial barrier function from oxidative stress
Raquel Martín-Venegas; Ana Maria Guerrero-Zamora; Maria Teresa Brufau; Yves Mercier; Pierre-André Geraertb; Ruth Ferrer
- P090 Validation trial for the prediction model for ME upgrading of raw materials with a bacterial xylanase in broilers
Ronny Mombaerts; Kurt Van De Mierop; Rony Geers
- P091 Comparison of nutrient upgrading of corn based diets in broilers by 3 different commercial NSP-enzyme products
Kurt Van de Mierop; Ronny Mombaerts; Anne Goderis^{*}; Greg Mathis; Amy Batal
- P092 Effect of a reduction in dietary phosphorus and calcium, associated or not with a decrease in energy, on performance and bone mineralization in broilers fed wheat-based diet: benefit of NSP-enzyme and phytase combination
Aurélie Preynat; Claire Relandeau; Gérard Uzu; Pierre Dalibard
- P093 Effects of using dietary *Camelina* seeds and oil on layer performance
Smaranda Toma; Margareta Olteanu; Maria Cornescu; Matjaz Cervek; Iulia Maros; Slavica Sredanovic
- P094 Raw or processed faba beans (*Vicia faba* L.) in the diets of laying hens
Erja Koivunen; Jarmo Valaja; Petra Tuunainen; Eija Valkonen
- P095 Amino acid digestibility of soybean meal and DDGS without and with supplementation of a protease in turkeys
Jeannette Boguhn; Jiri Broz; Markus Rodehutschord
- P096 Ratio of whole body phosphorus to tibia phosphorus in broilers fed at different levels of dietary phosphorus
Yauheni Shastak; Maren Witzig; Markus Rodehutschord
- P097 Evaluation of growth performance and carcass traits of local breed chickens fed with diets supplemented or not with whole grain barley and managed outdoors in free area
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