



XVI European Poultry **Conference**

SCIENTIFIC PROGRAM

EPC 2024

24TH – 28TH
JUNE 2024

Valencia



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XVI European Poultry Conference

Monday, 24th June 2024

REGISTRATION

REGISTRATION DESK

11:00-19:00

YOUTH PROGRAM

10:00-18:30

SATELLITE MEETINGS

BREAK-OUT ROOMS

16:00-19:00

OPENING CEREMONY

AUDITORIUM 1

19:30



Tuesday, 25th June 2024

PLENARY SESSION

01 Precision Farming and Sustainability

AUDITORIUM 1 & 2

Chairpersons: *M. Grashorn (Germany) & F. Bradley (University of California, U.C. Davis, USA)*



08:30-09:15

K01-01. How can Precision Livestock Farming help improve Sustainable Poultry Production?

Tomas Norton (KU Leuven, Belgium)

09:15-10:00

K01-02. A holistic and pragmatic view of sustainable development pathways in poultry production

Rick Kleyn (Spesfeed Consulting Pty Limited, South Africa)

EXHIBITION AREA AND MULTIPURPOSE 1

10:00-10:30

Coffee Break



PARALLEL SESSION

02 Health: Respiratory Viruses

AUDITORIUM 1

Chairpersons: *A. Moreno (IZSLER, Italy) & J.L. Guérin (UMR IHAP ENVT-INRA, France)*

10:30-11:00

K02-01. Chicken-derived airway organoids: a model to study viral dynamics for infectious bronchitis, Newcastle disease, and avian influenza viruses

Ferran Tarrés-Freixas (IRTA-CReSA, Spain)



11:00-11:10

O02-04. An integrated approach for the management of avian influenza information

Giacomo Nalesso



11:10-11:20

002-05. A chicken blood transcriptomic signature related to adaptive immune responses is associated with resistance to highly pathogenic avian influenza virus infection

María José Valdez-May

11:20-11:30

002-06. Pathobiology and variable genetic determinants for virulence, transmission and tissues tropism of H7N7 avian influenza virus in chickens, turkeys and different duck breeds

El-Sayed Abdelwhab

11:30-11:40

002-07. Efficacy of an Inactivated Monovalent AIV-H5 Vaccine against early challenge with HPAI-H5N8 clade 2.3.4.4b

Ricardo Neto

11:50-12:00

002-08. A comparative study of epigenetic and pathogenesis mechanisms between the virulent and avirulent strains of Newcastle disease viruses using bioinformatics analysis

Aleksandar Dodovski

12:00-12:10

002-09. First report of molecular detection of aMPV circulation in domestic and wild birds in Colombia

David Escobar

12:10-12:20

002-10. Avian metapneumovirus circulation in broiler farms in Italy

Claudia María Tucciarone

12:20-12:30

002-11. Infectious bronchitis virus surveillance in layers and broiler breeders in Spain from 2020 to 2023

Ángela Blanco



PARALLEL SESSION

03 Nutrition : Additives & PhytoGenics

AUDITORIUM 2 & 3

Chairpersons: *M. Rodehutschord (University of Hohenheim, Germany) & J.F Perez-Hernandez (SNiBA Universitat Autònoma de Barcelona, Spain)*



10:30-11:00

K03-01. Optimizing poultry production through feed technology: It's all about structure

Birger Svihus (Norwegian University of Life Sciences, Norway)

11:00-11:10

O03-04. Effects of polyherbal based product supplementation on growth performance, and gut health in broiler chickens challenged with *Eimeria* spp

Cinta Sol

11:10-11:20

O03-05. Dietary phytoGenic inclusion level affects performance and expression of heat shock and inflammatory genes in the whole blood of cyclic heat-stressed broilers

Eugenia Iliopoulou

11:20-11:30

O03-06. Growth performance and antioxidant response of broiler chicken fed oxidized lipids with or without phytoGenic feed additives

Fernando Sevillano

11:30-11:40

O03-07. Effect of dietary supplementation and in ovo feeding of menthol on the immunocompetence traits, mineral composition and fatty acid profile of breast and thigh muscle of commercial broilers

Amitav Bhattacharyya

11:40-11:50

O03-08. Quantitative and qualitative evaluation of plant intake in laying hens: n-alkanes as predictive fecal markers for dietary composition assessment

Laid Dardabou



11:50-12:00

O03-09. Effects of dietary supplementation of essential oils, lysozyme and vitamins blend on layer hen performance, viral vaccinal response and egg quality characteristics

Ilias Giannenas

12:00-12:10

O03-10. Application of cannabis-originated products in turkey nutrition

Pawel Konieczka

12:10-12:20

O03-11. Standardized Natural Citrus Extract stimulates the production of endogenous butyric acid in the gut

Juan Manuel García Coronel

PARALLEL SESSION

04 Egg quality



RECATÍA

Chairpersons: J. Gautron (INRAE, France) & M.M. Campo (University of Zaragoza, Spain)

10:30-11:00

K04-01. Nourished mind: Egg Nutrients and Cognitive Function

Ana Maria López Sobaler (Universidad Complutense de Madrid, Spain)

11:00-11:10

O04-04. A sustainable and efficient strategy to enrich eggs with n-3 LC-PUFA

Jesús Villora

11:10-11:20

O04-05. Effect of activated vitamin D3 on eggshell quality and performance in brown laying hens to 100 weeks of age

Christine Clark

11:20-11:30

O04-06. Effects of hen age and egg storage conditions on the quality and protein composition of the vitelline membrane

Océane Hervé



11:30-11:40

O04-07. Nutritional value and sensory characteristics of eggs from laying hens fed hempseed

Mattia Pravato

11:40-11:50

O04-08. Determination of elemental composition of chicken eggs using X-ray fluorescence spectroscopy

Maryam Mehri

11:50-12:00

O04-09. Incidence of internal spots in commercial eggs in Spain

Maria Del Mar Campo

12:00-12:10

O04-10. Cut-off rate of floor eggs in the cage-free system: exploring possible contributing factors

Claudia Ciarelli

12:10-12:20

O04-11. Impact of eggshell translucency and trace mineral supplementation on eggshell quality parameters

Duarte Neves

PARALLEL SESSION

05 Incubation and Fertility

RECATÍ B

Chairpersons: A. Blanco (Independent Poultry Consultant, Spain) & Y. Cinnamon (The Volcani Institute, Israel)

10:30-11:00

K05-01. All Chickens Fast and Slow- assessing the “embryonic developmental tempo” phenotype of poultry breeds

Megan Davey (The Roslin Institute, U.K.)

11:00-11:10

O05-04. Non-invasive early assessment of chicken egg fertilization through VOC profiling using HSSE-GC-MS

Matthias Corion





11:00-11:10

O05-05. Non-invasive embryonic blood vessel detection during automated in-ovo sexing

Carla Van Der Pol

11:20-11:30

O05-06. Epigenetic programming of avian hypothalamus by in-ovo green monochromatic illumination and its effect on growth, appetite and metabolism in broilers

Joanna Bartman

11:20-11:30

O05-07. Effect of thermal manipulation of slow-growing broiler chickens on chick quality and physiology

Roos Molenaar

11:40-11:50

O05-08. Impact of feed restriction on testicular parameters in broiler breeder roosters during the production period

Silvia Elena Palao

11:50-12:00

O05-09. Incubation of chicken eggs should take 24 days instead of 21 days

Jan Wijnen

12:00-12:10

O05-10. Rediscovering Italian poultry treasures: reviving the Millefiori Piemontese breed

Eleonora Erika Cappone

11:50-12:00

O05-11. In ovo delivery of carvacrol triggered the expression of antimicrobial peptides in the yolk sac of broiler embryos

Mila Meijer



EXHIBITION AREA AND MULTIPURPOSE ROOM 1

12:30-14:00

Lunch Break

PLENARY SESSION

06 Breeding and Ovosexing

AUDITORIUM 1 AND 2

Chairpersons: V. Michel (ANSES, France) & I. Estevez (NEIKER BRTA, Spain)

14:00-14:20

K06-01. Breeding for new requirements and future production systems.
Laying hens

Teun van der Braak (Hendrix Genetics, The Netherlands)

14:20-14:50

K06-02. Breeding for new requirements and future production systems.
Broilers - Breeding for Welfare in Meat Poultry

Anne-Marie Neeteson & Tim Burnside (Aviagen, U.K.)

14:50-15:30

K06-03. Sexual dimorphism during egg incubation and development of
ovosexing methods

Sophie Réhault-Godbert (BOPP, INRAE, France)

EXHIBITION AREA AND MULTIPURPOSE ROOM 1

15:30-16:00

Coffee Break



PARALLEL SESSION

07 Nutrition: Energy/Proteins/Amino Acids

AUDITORIUM 1

Chairpersons: A. Cerisuelo (Instituto Valenciano de Investigaciones Agrarias, Spain) & B. Svihus (NMBU, Norway)

16:00-16:10

O07-01. The influence of nutrition on body composition and allometric
growth patterns in laying hen pullets

Lieske Van Eck





16:10-16:20

007-02. Effect of dietary balanced protein levels during rearing on early egg production and egg quality of white and brown egg-type strains

Jo Ann Chew

16:20-16:30

007-03. Adequate dietary amino acid supply allows to moderately reduce dietary crude protein at the onset of lay without affecting laying performance of Isabrown layers

Maeve Durand

16:30-16:40

007-04. Impact of soybean origin and harvest year on chemical composition, amino acid profile, and protein quality indicators of soybean meals collected from 2007 to 2023

Nereida Luna Corrales

16:40-16:50

007-05. The impact of digestible lysine on egg weight control and eggshell quality in old Lohmann Brown hens during 82 to 92 weeks

Reza Akbari Moghaddam Kakhki

16:50-17:00

007-06. Cytokine expression during a mixed Eimeria infection in broilers given low protein diets supplemented with methionine or threonine

James Taylor

17:00-17:10

007-07. Is the expression of markers for breast muscle development in broiler chickens affected by breed, sex, age, and dietary energy level?

Regiane Santos

17:10-17:20

007-08. Comparative effects of low-protein soybean meal or high-protein soybean meal with wheat bran or prebiotics in broilers challenged with Eimeria using immune response and bacterial antimicrobial resistance gene abundance

Oluyinka Olukosi



17:20-17:30

007-09. Caecal microbiota composition in chickens of different genotypes fed low-input diets

Giulia Zardinoni

17:30-17:40

007-10. Effects of in ovo feeding of sericin on hatching performances and hepatic gene expression of broilers

Vaishali Gupta

17:40-17:50

007-11. Dietary amino acid density affects growth rate and body composition of fast- and slow-growing broiler chickens

Hsuan Chen

17:50-18:00

007-12. Nutritional needs of slow-growing broilers

Saskia Leleu

PARALLEL SESSION

08 Health: Antibiotic Resistances

AUDITORIUM 2 & 3

Chairpersons: *P. Catalá (CECAV, Spain) & P. Gil (Independent Poultry Consultant, Spain)*

16:00-16:30

K08-01. Antibiotic resistance, the big one health deal

Bruno González Zorn (ARU, Universidad Complutense de Madrid, Spain)

16:30-16:40

O08-04. Association between genotypic and phenotypic characteristics of *E. coli* strains isolated from broiler breeder flocks

Lica Lozica

16:40-16:50

O08-05. Full characterization of 23 salmonella wild type bacteriophages suitable for the eradication of the most relevant salmonella zoonotic serovars

Jan Torres-Boncompte



16:50-17:00

O08-06. In ovo carvacrol delivery downregulated splenic inflammatory responses after a post-hatch lipopolysaccharide challenge in broiler chicks

Mila Meijer

17:00-17:10

O08-07. Understanding the mode of action of Bacillus subtilis 29784 poultry probiotic through its secreted metabolites: A resilient approach

Nuria Vieco-Saiz

17:10-17:20

O08-08. Microbiome Modulation by a precision biotic lead to increased production of short-chain fatty acids in the intestine of broiler chickens

Cristiano Bortoluzzi

17:20-17:30

O08-09. Probiotics or Prophybiotics? Validation of effects of in-ovo administration on gut health and production of broiler chickens

Ramesha Nirmali Wishna Kadawarage

17:30-17:40

O08-10. An assessment of the antibacterial properties of black soldier fly larvae (*Hermetia illucens*) meal against several pathogenic bacteria found in poultry

Dumeshi Ellawidana

17:40-17:50

O08-11. Butyric acid and medium-chain fatty acids improve vaccine efficacy in broiler chickens by modulating the adaptive immune system

David Hermans



PARALLEL SESSION

09 Poultry Welfare

RECATÍ A

Chairpersons: I.de Jong (Wageningen Livestock Research, Wageningen University and Research, The Netherlands) & A. Harlander (University of Guelph, Canada)

16:00-16:30

K09-01. Farm animal welfare assessment and certification

Antonio Dalmau (IRTA, Spain)

16:30-16:40

O09-04. Use of artificial intelligence tools to simplify broiler welfare assessment protocols

Xavier Averós

16:40-16:50

O09-05. Welfare evaluation in the main Italian rearing system for poultry meat production by ebene app

Alice Cartoni Mancinelli

16:50-17:00

O09-06. Broiler welfare assessment: footpad and hock health analysis in Austrian abattoirs, 2020-2022

Janja Sirovnik

17:00-17:10

O09-07. Interobserver reliability of a scoring system to evaluate bruises in turkey carcasses

Luisa Raederscheidt

17:10-17:20

O09-08. LEGMONI, a ready-to-use tool for evaluating laying hen welfare at the slaughterhouse

Anneleen Watteyn

17:20-17:30

O09-09. Determination of ideal perch space allowance for pullets in Canada

Carolyn Adler



17:30-17:40

O09-10. Direct and carry-over effects of feeding pullets during sensitive periods in early rearing

Annemarie Mens

17:40-17:50

O09-11. Status quo of light conditions in turkey barns to identify light-associated risk factors of behavioral disorders in turkey flocks

Kathrin Toppel

17:50-18:00

O09-12. Will turkey hens utilize a perch when given the opportunity?

Kailyn Buchynski

PARALLEL SESSION

10 Breeding & Genetics

RECATÍ B

Chairpersons: Chairpersons: S. Weigend (Friedrich-Loeffler-Institut, Germany) & I. Dunn (The Roslin Institute, United Kingdom)



16:00-16:30

K10-01. Heritability estimates for movement of laying hens within a quasi-commercial aviary barn

Michael Toscano (ZTHZ - Universität Bern, Switzerland)

16:30-16:40

O10-04. Genetics of feeding behavior in medium-growing broiler chickens

Sandrine Mignon-Grasteau

16:40-16:50

O10-05. Evaluation of selection indices for adoption in dual-purpose and specialized breeding goals in indigenous chicken breeding programmes

Sophie Miyumo



O10-06. Morphological characteristics of breeder males at 60 weeks of age and their relationship with fertility and testicular development

Cristina Guerra

17:00-17:10

O10-07. Genetic evaluation of clutch traits in laying hens

Roberto Espinola

17:10-17:20

O10-08. Bone quality evaluation by keel bone palpation and live tibial X-ray density measurement in a White Leghorn pure line population

Björn Andersson

17:20-17:30

O10-09. Genome-wide association study on egg quality, laying performance and body weight in a backcrossing scheme between Araucana chicken and white layers

Chi Mei Sun

17:30-17:40

O10-10. Studying glycerol toxicity on frozen chicken sperm and strategies to mitigate it

Hsiu-Lien Herbie Lin

17:40-17:50

O10-11. The antibody response to experimental *Ascaridia galli* infection in three local chicken breeds

Emel Zergani

17:50-18:00

O10-12. New insight into Wooden breast myopathy by physics behind type III collagen structure

Eleonora Iaccheri

POSTER SESSION 1 & 2

MULTIPURPOSE ROOM 1

18:00-19:00 *Full details can be found from page 44 onwards



Wednesday, 26th June 2024

PLENARY SESSION

11 GUT-BRAIN AXIS AND EMBRYO DEVELOPMENT

AUDITORIUM 1 & 2

Chairpersons: *S. Yalçın (Ege University, Turkey) & D. Menoyo (Universidad Politécnica de Madrid, Spain)*

08:30-09:15

K11-01. The microbiome-gut-brain axis in poultry production: what we know and don't know and why it matters

Mark Lyte (Iowa State University, USA)

09:15-10:00

K11-02. Fostering embryonic development in chickens: maternal and in ovo nutritional strategies

Eugeni Roura (QAAFI, The University of Queensland, Australia)

EXHIBITION AREA AND MULTIPURPOSE ROOM 1

10:00-10:30

Coffee Break



PARALLEL SESSION

12 Health: Pathology and Immunology

AUDITORIUM 1

Chairpersons: *S. de Wit (Royal GD Animal Health and Utrecht University, The Netherlands) & S. García (Boehringer Ingelheim Animal Health, Spain)*

10:30-10:40

O12-01. Adenoviral gizzard erosion complicated with *Clostridium Perfringens* ventriculitis in a laying hen flock

Àlex Cobos Arnalot





10:40-10:50

O12-02. Evaluating the impact of intermittent multi-mycotoxin exposure on layer breeder performance, egg quality, and hatchability: insights from an intervention study

Marisabel Caballero

10:50-11:00

O12-03. Impact of moulting on the immune system of commercial layers

Silke Rautenschlein

11:00-11:10

O12-04. Protection against experimental infection by Salmonella Gallinarum biovar Gallinarum using different live vaccination programs

Rafael Penha

11:10-11:20

O12-05. Combination of live and inactivated Salmonella vaccines to control Fowl Typhoid in laying hens

Jesús Rubio

11:20-11:30

O12-06. Avian intestinal spirochaetosis in poultry in Ireland – preliminary results

Sebastian Alessandro Mignacca

11:30-11:40

O12-07. Compatibility of mixing of several respiratory vaccines in spf chickens

Enrique Carceller

11:40-11:50

O12-08. Molecular characterization of Mycoplasma gallisepticum and Mycoplasma synoviae in clinical samples from Spanish poultry flocks

Laura Digon



11:50-12:00

O12-09. Comparison of fowl adenovirus ELISA and virus neutralization titers in commercial broiler breeder flocks with distinct vaccination schemes against avian adenovirus

Roser Dolz

12:00-12:10

O12-10. IBDV detection in Northwestern Germany: Epidemiology and correlation to broiler performance

Violette Naccache

12:10-12:20

O12-11. Pathology of colibacillosis and its molecular detection from recent outbreaks in Chicks

Md. Golam Haider

12:20-12:30

O12-12. Morphological and immunological effect of in ovo administration in chicken of two different compound with probiotic and postbiotic feature

Md. Golam Haider

PARALLEL SESSION

13 Nutrition: Fats and Oils

AUDITORIUM 2 & 3

Chairpersons: Z. Uni (Hebrew University, Israel) & M. Soto (Kemin Ibérica, Spain)



10:30-11:00

K13-01. Transfer of undesirable substances from feed into meat and eggs - from experimental data to predictive models

Robert Pieper (German Federal Institute for Risk Assessment, Germany)

11:00-11:10

O13-04. Lipids: Consistently inconsistent – Variability in commercial fats and oils

David González Sánchez

11:10-11:20

O13-05. Evaluation of the simple and interactive effect of corn and oil quality in 21-day-old broiler chickens

Sunday Adedokun



11:20-11:30

O13-06. Inclusion of a stabilized emulsifier in low-energy diet for broilers: effects on nutrients retention, excreta trait and growth performances

Luca Marchetti

11:30-11:40

O13-07. Intelligent emulsifier addition to broiler feed formulations to improve FCR

Daphne Michels

11:40-11:50

O13-08. The effect of a combination of organic acids and medium chain fatty acid mono esters administered via water on broiler performance, mortality rate, and foot pad score

Pedro Medel

11:50-12:00

O13-09. Influence of free fatty acid content and degree of fat saturation in laying hen diets on bone quality

María Palomar

12:00-12:10

O13-10. Apparent fatty acid digestibility in laying hens fed medium-chain fatty acid-rich diets

Araceli Orozco Mas

12:10-12:20

O13-11. Dietary inclusion of Echium plantagineum oil and metabolism modulation of n-3 LC-PUFA in Canarian chicken

Jesús Villora

12:20-12:30

O13-12. Effect of a high-energy diet on liver stress and lipid metabolisms, meat and carcass traits in a slow-growing chicken breed

Nadia Stoppani



PARALLEL SESSION

14 Meat Quality

RECATÍA

Chairpersons: C. Berri (INRAE, France) & M. Estevez (IPRoCAR Universidad de Extremadura, Spain)

10:30-11:00

K14-01. Innovation in sensory assessment of poultry meat and meat products

Sonia Ventanas (IPRoCAR Universidad de Extremadura, Spain)



11:00-11:10

O14-04. Computed tomography as a non-invasive tool to characterize and advance on chicken breast myopathies

Cristina Zomeño

11:10-11:20

O14-05. Use of shear-wave elastography to predict *in vivo* the presence and severity of the wooden breast defect in chickens

Cécile Berri

11:20-11:30

O14-06. Chicken breast myopathies affect colour acceptance and willingness to purchase during shelf life

Miriam Muñoz-Lapeira

11:30-11:40

O14-07. Gene expression patterns associated with processing yield of marinated breast meat in broilers affected by white striping and wooden breast defects

Martina Bordini

11:40-11:50

O14-08. Dietary specification on meat quality of fast and slow growing broilers

Hannah Scott-Cook

11:50-12:00

O14-09. Meat quality: electrical water bath stunning vs. CO2 gas stunning in broiler welfare assessment

Jolien Hacker



12:00-12:10

O14-10. Effects of provisioning black soldier fly whole larvae or larvae meal on carcass and meat quality traits in fast-growing broilers

Elisabeth Baeza

12:10-12:20

O14-11. Palm kernel fatty acid distillates: revalorizing this by-product as feeding fat. Effects on lipid composition, oxidation and sensory acceptance of chicken meat.

Laura Parro

12:20-12:30

O14-12. Whole dehydrated and live black soldier fly larvae in autochthonous chicken breeds, effects on slaughtering performance and meat quality

Edoardo Fiorilla

PARALLEL SESSION

15 Economy

RECATÍ B

Chairpersons: P. van Horn (WUR, The Netherland) & E.Sossidou (Ellinikos Georgikos Organismos-DIMITRA, Greece)

10:30-11:00

K15-01. Growing broilers during tough economic conditions

Andrew Catlett (Cobb Europe, U.K.)

11:00-11:10

O15-04. Economic effects of EFSA's welfare recommendations

Simon Fourdin

11:10-11:20

O15-05. HPAI vaccination in France: Concept, Experiences during the first stages and economic effects of the choice for vaccination

Simon Fourdin

11:20-11:30

O15-06. Economic perspectives of the dutch broiler sector

Luuk Vissers



11:30-11:40

O15-07. Additional costs of turkey hens with untrimmed beaks in enriched housing conditions

Petra Thobe

11:40-12:10

O15-08. Cost factors in broiler meat production. An alternative analysis

Jose Ignacio Barragán Cos

12:10-12:20

O15-11. BroilerNet- Practice and Science Broiler production innovation network

Natàlia Majó

12:20-12:30

O15-12. Animal health law: Qualification and current skills regarding biosecurity in commercial poultry farms

Luisa Raederscheidt

EXHIBITION AREA AND MULTIPURPOSE ROOM 1

12:30-14:00

Lunch Break

PLENARY SESSION

16 Vaccination and Immune System

AUDITORIUM 1 & 2

Chairpersons: *E. Prukner-Radovic (European Federation-WPSA, Croatia) & N. Majó (IRTA-CReSA, Spain)*

14:00-14:45

K16-01. Vaccination against avian influenza: adapting our strategy to changing challenges

Jean-Luc Guérin (UMR IHAP ENVT-INRAE, France)

14:45-15:30

K16-02. Unlocking Immune System Potential in Chickens through Gene Editing: A Promising Frontier

Benjamin Schusser (Technische Universität München, Germany)





EXHIBITION AREA AND MULTIPURPOSE ROOM 1

15:30-16:00

Coffee Break



PARALLEL SESSION

17 Nutrition: Additives

AUDITORIUM 1

Chairpersons: Y.Nys (INRAE, France) & L. Castillejos (SNI BA, Universitat Autònoma de Barcelona (UAB), Spain)



16:00-16:30

K17-01. The role of plant-based antinutritional factors in poultry diets. New progress on their effects on chicken growth and health

Gonzalo González Mateos (Universidad Politécnica de Madrid, Spain)

16:30-16:40

O17-04. Diet composition influences probiotic and postbiotic effects on broiler growth, physiology and microbiota

Samuel Jansseune

16:40-16:50

O17-05. Transcriptomics reveals different modes of action of three probiotic strains compared with an antibiotic growth promoter in broiler chickens

Muzahir Hussain

16:50-17:00

O17-06. Dietary muramidase improves apparent ileal energy digestibility, gut functionality and increases broiler growth performance independent of diet nutrient density development

Aurelia A. Séon Simon

17:00-17:10

O17-07. The effect of NSPase and feeding regimen on performance of broilers fed diets based on high and low viscosity barley

Muhammad Ahmad



17:10-17:20

O17-08. Differences in origin and dose of dietary endoxylanases result in distinct arabinoxylan degradation patterns in the gi tract of broilers fed wheat-based diets

An Bautil

17:20-17:30

O17-09. Assessment of in vitro fermentation efficacy of yeast-derived β -glucans with different molecular mass and solubility using broilers' caecal content

Yunfeng Gu

17:30-17:40

O17-10. Impacts of early nutritional strategies on digestive homeostasis of chicks

Vincent Jonchère

17:40-17:50

O17-11. Effect of the dietary supplementation with sodium butyrate on gut morphology and caecal microbiota of broiler chickens

Almudena Huerta

17:50-18:00

O17-12. In-ovo injection of sodium butyrate improves growth performance in underweight broilers by modulating microbiota and gut barrier gene expression

Muhammad Zeeshan Akram

PARALLEL SESSION

18

Poultry Health: Management and Biosecurity

AUDITORIUM 2 & 3

*Chairpersons: C. Marín (Universidad CEU Cardenal Herrera, Spain)
& J.C. Regojo (Medprovet, Spain)*



16:00-16:10

O18-01. A walk through the broiler breeder life

Käthe Kittelsen



16:10-16:20

O018-02. Contact with an adult hen after hatching promotes maturation of the chick caecal microbiota and has a greater effect than hatching systems

Laurence Guilloteau

16:20-16:30

O18-03. Microbiome diversity along the GIT of indigenous chicken

Armel Tangomo Ngnintedem

16:30-16:40

O18-04. The microbial evaluation of the Boschveld chickens fed Sorghum-based diets

Monnye Mabelebele

16:40-16:50

O18-05. The effect of non-starch polysaccharide degrading enzymes (NSPase) on gut leakage and intestinal histology in young broilers fed high-fiber, viscous, diets

Ester Vinyeta

16:50-17:00

O18-06. Effects of electrolyzed-reduced water and functional amino acid supplementation in drinking water to alleviate heat stress in broilers

Renée De Baets

17:00-17:10

O18-07. Exploring the avian breath: a comprehensive meta-analysis of factors shaping chicken respiratory microbiota

Alejandro Moreno

17:10-17:20

O18-08. Potential biosecurity breaches in laying hen farms: characterization of the poultry-wildlife interface through a camera trap study

Giulia Graziosi

17:20-17:30

O18-09. The biofilm removing capacity of drinking water disinfectants in an in vitro model

Daisy Roijackers



17:30-17:40

O18-10. A comprehensive review on backyard poultry: exploring non intensive production systems

Fernando Carrasquer Puyal

17:40-17:50

O18-11. Light as an enrichment tool: effects on animal health and behavior in commercial turkey production

Silke Rautenschlein

17:50-18:00

O18-12. Effects of Aflatoxin B1 and Ochratoxin on the Fitness and Neonatal Growth of White Pekin Ducks: An In Ovo Injection Study with and without Ameliorants, Investigating Mycotoxin-Threshold and Toxin-Toxin Interaction

Navniet Mishra

PARALLEL SESSION

19 Poultry Welfare

RECATÍ A

Chairpersons: I. Temann (University of Bonn, Alemania) & S. Struthers (Roslin Institute, University of Edinburgh, Reino Unido)



**LOHMANN
BREEDERS**

16:00-16:30

K19-01. Dealing with Global Supply Chain Realities, Layer Genetics

Sijne van der Beek (Global Layer Genetics GmbH, The Netherlands)

16:30-16:40

O19-04. Spatial patterns in the use of aviaries in relation to body condition and production – A study on individual laying hens

Sabine Gebhardt-Henrich

16:40-16:50

O19-05. Influence of light exposure and early feed access on the stress response during the developmental and early posthatch period in laying hen chicks

Catharina M. H. Broekmeulen



16:50-17:00

O19-06. Cost-benefit analysis of the upright versus conventional method for catching and loading end-of-lay hens

Femke Delanglez

17:00-17:10

O19-07. Long-term effects of ramps provided during rearing and laying phases in laying hens

Alex Johnny

17:10-17:20

O19-08. Exercise using wing-assisted incline running during rearing affects initial descent velocity in adult laying hens

Grace Hong

17:20-17:30

O19-09. Access to outdoor space for laying hens: evaluating motivation and behavior of the animals

Marco Birolo

17:30-17:40

O19-10. Using a validated x-ray method on individual living hens, bone density does not decline over their lifetime

Ian Dunn

17:40-17:50

O19-11. Occurrence of keel bone lesions measured at the slaughterhouse in laying hens: analysis of risk factors for on farm animal welfare

Angela Trocino

17:50-18:00

O19-12. The effect of hypocalcaemia on keel bone radiodensity and damage

Maisarah Maidin



PARALLEL SESSION

20 Sustainability

RECATÍ B

Chairpersons: E. F. Guèye (FAO, Senegal) & M.Láinez (Fundación Grupo Cajamar, Spain)



16:00-16:30

K20-01. Greenhouse gas emissions

Salvador Calvet Sanz (Universitat Politècnica de València, Spain)

16:30-16:40

O20-04. Analyzing attitudes and satisfaction level of digital on-farm technologies for climate change adaptation and mitigation in poultry farming

Pia Münster

16:40-16:50

O20-05. Comparing Soybean Meal Reduction on Performance of Fast and Slow-Growing Chickens

Clara Alfonso-Carrillo

16:50-17:00

O20-06. Performance and environmental implications of modulating the metabolizable energy content in broiler chicken diets

Marco Zampiga

17:00-17:10

O20-07. Ammonia emissions can be reduced through a quality-controlled bedding material in broiler housing systems

Benedikt Thesing

17:10-17:20

O20-08. Impact of slower growing broilers and reduced stocking density on ammonia emission and animal welfare

Neil Van Den Broeck

17:20-17:30

O20-09. Feasibility of purified rainwater as drinking water for broilers

Neil Van Den Broeck



17:30-17:40

O20-10. Reusing cleaning water from broiler farms: on-site biological treatment and membrane filtration

Bleyen Peter

17:40-17:50

O20-11. Comparative life-cycle assessment for the sustainable production of fermentation-based L-methionine (L-Met)

Behnam Saremi

17:50-18:00

O20-12. Exploring BroilerNet stakeholders' attitudes towards the sustainability of broiler industry in Greece

Evangelia Sossidou

POSTER SESSION 3 & 4

MULTIPURPOSE ROOM 1

18:00-19:00 *Full details can be found from page 62 onwards



GALA DINNER

MUSEO DE LAS CIENCIAS PRINCIPE FELIPE. CIUDAD DE LAS ARTES Y CIENCIAS

19:45 Buses departure from the Valencia Conference Venue

20:30 - 23:30 Gala Dinner

**Shuttle bus service available from the Museo de las Ciencias Príncipe Felipe*



XVI European Poultry Conference

Thursday, 27th June 2024

PLENARY SESSION

21 Politics and Education

AUDITORIUM 1 & 2

Chairpersons: *P. van Horne (WUR, Netherlands) & G. Sayegh (SaySoft di Ghassan Sayegh, Italy)*

Elanco

08:30-09:15

K21-01. Global Poultry Outlook - Consequences of political tensions in the poultry sector

Nan-Dirk Mulder (Rabobank, The Netherlands)

09:15-10:00

K21-02. Trends for the future of the Poultry sector: Education, Employment, and Research

Vincent Guyonnet (FFI Consulting Ltd., Canada)

EXHIBITION AREA & MULTIPURPOSE ROOM 1

10:00-10:30

Coffee Break

HIPRA

PARALLEL SESSION

22 Food safety

AUDITORIUM 1

Chairpersons: *K. de Reu (ILVO, Belgium) & H. Médic (University of Zagreb, Croatia)*

KEMIN
Compelled by Curiosity™

10:30-11:00

K22-01. Phage Therapy Against Superbugs: Promising Strategies and Insights

Sandra Sevilla-Navarro (CECAV, Spain)



11:00-11:10

O22-04. Antimicrobial resistance in eggs: the role of layer production system. Preliminary results

Laura Montoro-Dasi

11:10-11:20

O22-05. Salmonella Infantis rules the roost: a continuous cycle of contamination between broiler farms and slaughterhouses

Lisa De Witte

11:20-11:30

O22-06. A double encapsulation of bioactives to reduce salmonella livingstone shedding in artificially infected broiler chickens

Stephanie Ladirat

11:30-11:40

O22-07. Aerotolerance and haemolytic activity of invasive and non-invasive campylobacter coli strains from broiler chickens

María Pilar González Navarro

11:40-11:50

O22-08. Colonization by different Campylobacter jejuni strains produces distinct effects on broiler chickens performance

Borja Vilà

11:50-12:00

O22-09. Host immune response of broiler chickens to campylobacter jejuni strains with different pathogenic potential

Alicia Manzanares

12:00-12:10

O22-10.

12:10-12:20

O22-11. Assessing the impact of a commercial water disinfectant, blend of hydrogen peroxide, acetic, and peracetic acid on the performance and Campylobacter jejuni counts in experimentally challenged broiler chicks

Tilemachos Mantzios



PARALLEL SESSION

23 Poultry Nutrition: Vitamins and Minerals

AUDITORIUM 2 & 3

Chairpersons: *G. G. Mateos (Universidad Politécnica de Madrid, Spain) & E. Roura (QAAFI, The University of Queensland, Australia)*



10:30-11:00

K23-01. Early feeding nutrition of minerals and vitamins: implications and applications

Zehava Uni (Hebrew University, Israel)

11:00-11:10

O23-04. Effect of dietary supplementation and in ovo feeding of alpha ketoglutaric acid on the immunocompetence traits, mineral composition and fatty acid profile of breast and thigh muscle of commercial broilers

Amitav Bhattacharyya

11:10-11:20

O23-05. Assessing the impact of feeding different, highly available sources of essential trace minerals delivered from a premix blend on broiler performance

Gavin Boerboom

11:20-11:30

O23-06. A combination of 25-Hydroxycalciferol, carotenoid, organic copper and glycans improved broiler breeder performance, egg quality and hatchability traits

Konstantinos Mountzouris

11:30-11:40

O23-07. Broiler breeder hens significantly benefit by replacing inorganic trace minerals with glycinate

Susanne Rothstein

11:40-11:50

O23-08. Reducing breast myopathies with supplementation of Solanum glaucophyllum

Katia Pedrosa



11:50-12:00

O23-09. Enhancing feed digestibility : Exploring the potential of calcium humophosphate as a novel source of phosphorus on broiler nutrition

Amélie Juanchich

12:00-12:10

O23-10. Changes in the acid-base balance of broiler chickens after a substitution of peptide-bound with free amino acids in the diet

Wolfgang Siegert

12:10-12:20

O23-11. Laying hens require a minimum supplementation of riboflavin to maintain body weight, egg weight, and optimize egg riboflavin content

Matheus Reis

PARALLEL SESSION

24 Poultry Welfare

RECATÍ A

Chairpersons: Chairpersons: A. Trocino (University of Padova, Italy) & M. Toscano (ZTHZ, Universität Bern, Germany)



10:30-11:00

K24-01. Beak trimming or breeding for better beaks? A genetic approach to reducing feather pecking damage

Sarah Struthers (The Roslin Institute, U.K.)

11:00-11:10

O24-04. Breaking the beak conundrum: navigating laying hen welfare in beak-trimmed and non-trimmed flocks

Niels Demaître

11:10-11:20

O24-05. Associations between the gut-brain axis and feather pecking in laying hens

Alexandra Harlander



11:20-11:30

O24-06. Toe injuries are linked to altered movement behavior in laying hens in a semi-commercial aviary system

Michael Toscano

11:30-11:40

O24-07. Lower stocking densities support broiler welfare – A proof of concept of the behavioural space model

Inga Tiemann

11:40-11:50

O24-08. A slow-growing broiler strain has more beneficial effects on broiler welfare than providing environmental enrichment

Ingrid De Jong

11:50-12:00

O24-09. Multifactorial evaluation of poultry welfare in different genotypes and farming systems

Cecilia Mugnai

12:00-12:10

O24-10. The effect of on-farm hatching on spatial traits in a quasi-commercial barn

Matthew Petelle

12:10-12:20

O24-11. Effects of providing uniform or gradient light intensity on behaviour and welfare of fast- and slower-growing broiler chickens

Ingrid De Jong

12:20-12:30

O24-12. Stunning effectiveness: electrical water bath stunning vs. CO2 gas stunning in broiler welfare assessment

Yukari Togami



PARALLEL SESSION

25 Physiology

RECATÍ B

Chairpersons: *B. Tzschentke (IASP Humboldt-Universität Berlin, Germany) & M. Casandro (University of Padova, Italy)*



10:30-11:00

K25-01. Towards a Humane and Sustainable Solution: A Genetic Model to Eliminate Male Chicks Culling in the Egg Industry

Yuval Cinnamon (The Volcani Institute, Israel)

11:00-11:10

O25-04. Exogenous supplementation of additional level of arginine (L_Arg) in corn-soy based diets is required for broiler breeder hens during late production phase

Gautham Kolluri

11:10-11:20

O25-05. Expression of genes involved in calcium and phosphorus homeostasis in hen's kidney: effects of sexual maturity and PO stage

Baraa Ezzo

11:20-11:30

O25-06. Neural regulation of the stress response in chicken

Loreta Medina

11:30-11:40

O25-07. Long-term effects of prenatal temperature stimulation on mRNA expression of Bdnf, Npy, and Pomc in the chicken hypothalamus

Tzschentke Barbara

11:40-11:50

O25-08. Comparative analysis of transcriptional profiles of chicken jejunum and -derived organoids collected early post-hatch

Vincent Jonchère

EXHIBITION AREA AND MULTIPURPOSE ROOM 1

12:30-14:00

Lunch Break



PLENARY SESSION

26 Meat and Egg Quality

AUDITORIUM 1 & 2

Chairpersons: *M. Petracci (University of Bologna, Italy) & C. Alamprese (University of Milan, Italy)*

14:00-14:45

K26-01. Strengths and weaknesses of poultry meat quality attributes for meeting the increasing global protein demand

Stefaan De Smet (Ghent University, Belgium)

14:45-15:30

K26-02. Bone and eggshell quality in hens in extended laying cycles

Alejandro Rodriguez Navarro (University of Granada, Spain)

EXHIBITION AREA & MULTIPURPOSE ROOM 1

15:30-16:00

Coffee Break



PARALLEL SESSION

27 Nutrition: Alternative ingredients

AUDITORIUM 1

Chairpersons: *A. Schiavone (University of Turin, Italy) & B. Vila (IRTA, Spain)*



16:00-16:10

O27-01. Comparative analysis of caeca microbiota composition in broiler chickens fed diets with alternative protein sources

Alessandra De Cesare

16:10-16:20

O27-02. Impact of protein source and digestibility marker on nutrient digestibility in broilers

Ibtissam Kaikat



16:20-16:30

O27-03. Are heat treated mixed crops of faba beans and wheat suitable for broiler feeds?

Noémie Van Noten

16:30-16:40

O27-04. Maintaining an adequate amino acid profile allows to successfully reduce dietary crude protein in broiler chickens in both wheat or corn-based diets

William Lambert

16:40-16:50

O27-05. The inclusion of full-fat Black Soldier fly larvae in broiler's feed in different forms (meal and whole): effects on growth performance and breast fatty acids' composition

Alba Cerisuelo

16:50-17:00

O27-06. Assessing the environmental impact of poultry feed in meat type autochthonous chicken farming

Edoardo Fiorilla

17:00-17:10

O27-07. Bran particle size impacts the precaecal fibre particle size distribution, caecal influx and caecal fibre fermentation differently with age

Paulien Vanderghinste

17:10-17:20

O27-08. Effect on degradation and passage of oat hulls through digestive tract of broilers at different time points

Shlesha Ghimire

17:20-17:30

O27-09. Assessing the flow of digesta and digestive dynamics in broiler chickens: A comparative study with growing pigs

Lucas Bassi



17:30-17:40

O27-10. Influence of coarse mash and crumbled diets on productive performance and nutrient digestibility of laying hens from 74 to 85 weeks of age

Jihed Zemzmi

17:40-17:50

O27-11. Use of almond shells as insoluble fibre source for 5 weeks old pullets feeding: effect of particle size and inclusion levels

Eduardo Ruíz Herrero

PARALLEL SESSION

28 Health: Enterococcus, Coccidiosis and NE

AUDITORIUM 2 & 3

Chairpersons: *S. Rautenschlein (University of Veterinary Medicine Hannover, Germany)* & *R. Dolz (MSD AH, Spain)*



16:00-16:30

K28-01. Enterococcus cecorum, an emerging pathogen of meat type chickens

Arne Jung (University of Veterinary Medicine Hannover, Germany)

16:30-16:40

O28-04. Establishment of an immunological cell model for investigating amyloid arthropathy in chickens

Nora-Fabienne Paul

16:40-16:50

O28-05. Gut microbiota and host interactions in chickens: a dynamic interplay with performance implications

Ester Arevalo Sureda

16:50-17:00

O28-06. Antimicrobial resistance profiles of Enterococcus spp. associated to poultry diseases and their susceptibility to probiotic Bacillus

Kirsty Gibbs



17:00-17:10

O28-07. Study of the combined therapy of antibiotics and bacteriophages for the control of enterococcus spp. in poultry farming

Josep García-Llorens

17:10-17:20

O28-08. Air sample based detection of Eimeria spp. in broiler houses

Julia Skov

17:20-17:30

O28-09. Turkey productivity improvement and poult gut health support during Eimeria spp. challenge using a poultry specific synbiotic

Luis Valenzuela

17:30-17:40

O28-10. Coniferous rosin-based soap formulations inhibit the sporulation and infectivity of Eimeria tenella oocysts in vitro

Hannele Kettunen

17:40-17:50

O28-11. Investigation of the dietary supplementation of lauric and butyric acid glycerides on the performance, intestinal gross lesions and cecal microbiota in a subclinical necrotic enteritis challenge model in broiler chicks

Vasileios Tsiouris

17:50-18:00

O28-12. Induction of protective immunity against necrotic enteritis by delivering live Clostridium perfringens by the intrapulmonary route at hatch

Susantha Gomis



PARALLEL SESSION

29 Smart Farming

RECATÍ A

*Chairpersons: M. Makagoon (University of California Davis, USA)
& S. Calvet (Universitat Politècnica de València, Spain)*



16:00-16:10

O29-01. Navigation ability of white and brown hens in an aviary system during laying phase

Francesco Bordignon

16:10-16:20

O29-02. Tag 'n' Track: simplifying the validation of animal behaviour tracking technologies with an automated annotation method

Serge Alindekon

16:20-16:30

O29-03. Development of a temperature based non-invasive sensor system for controlling heart rate during temperature training of broiler embryos in the hatching phase

Hans-Ullrich Balzer

16:30-16:40

O29-04. Enhancing broiler welfare through precision classification of stress calls in varied environmental conditions

Shelly Druyan

16:40-16:50

O29-05. Autonomous bioacoustics system for monitoring broiler welfare in hatcheries using artificial intelligence

Gerardo José Ginovart-Panisello

16:50-17:00

O29-06. Does distribution of light intensity impact broiler production or welfare?

Tory Shynkaruk



17:00-17:10

O29-07. Stocking density and access to open-air influences feed efficiency in a strain of slow-growing naked neck chicken

Chaumont Salomé

17:10-17:20

O29-08. Relationships between range use, performances and health and welfare related traits in four strains of organic broilers

Elisabeth Le Bihan-Duval

17:20-17:30

O29-09. Performance of dual-purpose chickens in organic farming

Philipp Hofmann

17:30-17:40

O29-10. Egg and meat performance of three dual-purpose hen genotypes reared under free-range conditions

Alexandr Torres

17:40-17:50

O29-11. Starling movements: connectivity at the human-domestic animal-wildlife interface

Alberto Sánchez Cano

17:50-18:00

O29-12. Bonelli's eagles as a biomarker: multi-resistant strains and biosecurity in a One Health framework

Barbara Martín-Maldonado

PARALLEL SESSION

30

Spanish Egg and Meat Producers Meeting (Inprovo & Avianza)

RECATÍ B

16:00-16:10

M30. Spanish Egg and Meat Producers Meeting (Inprovo & Avianza)



XVI European Poultry Conference

CLOSING CEREMONY

AUDITORIUM 1

18:00-19:00





POSTER SESSION 1



MULTIPURPOSE ROOM 1

Chairpersons: L. Castillejos (SNI BA, Universitat Autònoma de Barcelona (UAB), Spain) & C. Marín-Orenga (University CEU Cardenal Herrera, Spain)

18:00-18:30

P1-01. Study of economic parameters in Uttara chicken: A promising native chicken of Uttarakhand state of India

Anil Kumar

P1-02. Sea urchin waste as a sustainable source of calcium in laying hens production

Francesca Leone

P1-03. Effects on the carbon footprint of chicken meat by an infection with *Eimeria* spp

Julia Gickel

P1-04. Feasibility of purified rainwater as drinking water for laying hens

Neil Van Den Broeck

P1-05. Improve broiler production sustainability reducing N and P excretion through diet optimization with multi-enzymatic complex with high doses of phytase

Davide Militello

P1-06. Comparing the improvement in feed sustainability through multi-carbohydrase complex with high doses of phytase using two different GFLI databases

Davide Militello



18:00-18:30

P1-07. Effect of the addition of protected sodium butyrate in broiler diet on nitrogen and phosphorus excretion

Beatriz Saldaña Mancebo

P1-08. Sustainable utilisation of eggs lost during further processing and packaging

Simone Pauling

P1-09. Effect of genotype on human-edible protein conversion efficiency: valorisation of local chicken breeds through cross-breeding strategy

Federica Volpe

P1-10. Pecking behaviour of turkey hens in proximity to the feeding pan – any influence of beak condition?

Nina Volkmann

P1-11. Effect of stocking density on performance and footpad dermatitis in broilers

Lidija Peric

P1-12. Effects of a twin shell building and proactive ventilation on litter humidity and health of broiler chicken

Stephanie Schäfers

P1-13. Hanging poultry scales as a model for environmental enrichments in commercial broiler houses

Brenda Hernández Tapia

P1-14. Welfare of turkey hens with untrimmed beaks in enriched housing conditions

Birgit Spindler



18:00-18:30

P1-15. Hatching on-farm under practical conditions - first experiences on the behavior in on-farm hatched and hatchery-hatched broiler chicks

Sabine Vossler

P1-16. Effect of bedding material on leg quality in broilers

Sava Spiridonovic

P1-17. Climate change: heat stress trends in German regions of intensive turkey production

Nina Volkmann

P1-18. Effect anti-stressor supplementation on body weight changes, SOD (Superoxide Dismutases), and Glucocorticoids (GC) gene expression in transport stressed broiler chicken

Jaydip Rokade

P1-19. On-farm hatching in slow growing broilers: an experience out of the practice

Anna Schwarz

P1-20. Stripped to the Bone: Comparing Broiler Bone Strength and Bone Density Across German Fattening Methods

Jolien Hacker

P1-21. Effect of different litter types on occurrence and severity of pododermatitis in broiler production

Slobodan Knežević

P1-22. Effects of a triple-strain Bacillus-based probiotic in ameliorating stress-related impacts on broiler gut microbiota for improved well-being and productivity

Antoine Meuter



18:00-18:30

P1-23. Expression of regulatory neuropeptides in broiler breeder females fed diets with decreased energy and protein content

Gillian Cherrie

P1-24. Effects of Quillaja saponaria and Yucca schidigera saponins and polyphenols on intestinal health, welfare, and performance of broilers under commercial conditions in Belgium

Vasil Stanev

P1-25. Effect of Dietary Supplementation of Arjuna (Terminalia arjuna) Bark and Sahjan (Moringa oleifera) Leaf Powder on the Growth Performance and Egg Quality of Uttara chicken

Ankit Sharma

P1-26. Production performance and egg quality parameters of laying hen supplemented with black turmeric under heat stress

Vinay Singh

P1-27. Dietary phytogetic inclusion level improves performance and egg quality by regulating cytoprotective and inflammatory responses in the ovary and duodenum of laying hens

Ioannis Brouklogiannis

P1-28.

P1-29. Enhancing Reproductive Performance of Broiler Breeders and Progeny Quality and Performance Through Phytomolecules

Twan Van Gerwe

P1-30. Dietary manipulations with herbal feed additives to produce value added egg from laying chicken

MSK Sarker



18:00-18:30

P1-31. Proving the use of nutritional matrix values for Phytogetic Feed Additives through modeling

Manu De Laet

P1-32. Effects of feeding oxidized lipids and an extract from an olive oil by-product, rich in Hydroxytyrosol, on cecal fermentation in broilers at 21 days of age

Joel Alexis Maldonado

P1-33. Effects of a Chinese herbal extract on gut microbiota, production performance, immune organ indices, meat quality, and serum biochemical indices of white carneau squabs

Zhixuan Chen

P1-34. Effects of supplementation of salinomycin and herbal feed additive on growth performance and oocyst shedding in broiler chickens challenged with *Eimeria* spp

Gabriel Moyano

P1-35. Artichoke extract (*Cynara scolymus* L.) improves production performance of laying hens after long-term stress of feeding mycotoxin-contaminated diets

Konkawat Rassmidatta

P1-36. Effects of an encapsulated phytogetic and phycogenic solution when used in a diet formulated with or without matrix value on performance, egg quality and nutrient digestibility of laying hens

Stephanie Ladirat

P1-37. Effects of natural extracts on the oxidative stability of poultry feeds

Marta Blanch



18:00-18:30

P1-38. Influence of purslane extract and probiotic on welfare related parameters and droppings characteristics of broilers at high stocking density

Ahmad Tatar

P1-39. Live Salmonella vaccine compatibility with different microbial based solutions

Florence Barbe

P1-40. Poultry vector vaccines: innovative serological assays for vaccination monitoring and DIVA testing for H5 avian influenza A

Ignacio García-Pastor

P1-41. Evaluation of inactivated vaccine formulated with new polymeric adjuvant against Salmonellosis in layers

Andra Corder

P1-42. Compatibility of innovax-nd-ibd + nobilis h9-nd p vaccine against 3 challenge strains (ibd. nd, ai) in spf birds at t=3 or t=4 (ibd at 3 weeks, nd and ai at 4 weeks)

Rüdiger Raue

P1-43. Evaluation of compatibility and production performance in commercial layers immunized with vectorized vaccines rHVT-H7 and rHVT-F and immune-complex vaccine against Gumboro applied simultaneously in the hatchery

Ricardo Franco

P1-44. Evaluation of vaccination strategies against highly pathogenic avian influenza H5 in Spanish poultry production: application of the EVACS tool

Marta Perelló



18:00-18:30

P1-45. Study to assess the correlation between Infectious Bronchitis live vaccine volume applied by spray to day-old chick boxes and the percentage of positivity and Ct values

Alberto Giner

P1-46. Bacillus coagulans DSM 32016 controls Salmonella Typhimurium- Caused performance decline in broiler through improved gut histomorphology and beneficial microbiota modulation

Rubén Crespo Sancho

P1-47. Development of a new probiotic feed additive based on the microbial consortium of Limosilactobacillus fermentum and Ligilactobacillus salivarius for the prevention of salmonellosis in broiler chickens

Ilya Nikonov

P1-48. Effect of in feed galactomannans in broiler chickens challenged with different Campylobacter jejuni strains

Borja Vilà

P1-49. Comparative analysis of resistance to salmonella enterica serovar enteritidis in guinea fowl and chicken

Girraj Goyal

P1-50. Assessment of the activity of Lactobacillus spp commercial against Salmonella Minnesota with multiple drug resistance profile

Bruno Milagres

P1-51. Protective Efficacy of Inactivated Trivalent-H5 Vaccine Against Challenge with Both HPAIV-H5N1 and H5N8 Viruses in Turkey Poults Under Both Laboratory and Field Conditions

Wael Elfeil



18:00-18:30

P1-52. Efficacy of the application of an attenuated Salmonella Typhimurium vaccine in a broiler farm to reduce excretion and colonization of field strains after and experimental infection

Lourdes Sisquella

P1-53. Stability of a bivalent live Salmonella vaccine in drinking water over a 24-hour period, with and without the addition of a water stabilizer

Doris Mueller-Doblies

P1-54. Removal of Aflatoxin B1 Using Alfalfa Leaves as an Adsorbent Material: A Comparison between Two In Vitro Experimental Models

María De Jesús Nava Ramírez

P1-55. Influence of inactivated Salmonella vaccine in breeders on the vertical transference of MDA in day-old chicks

Santiago De Castro

P1-56. Prevalence and characterization of ESBL producing Klebsiella pneumoniae from Sonali chicken meat in Narsingdi district, Bangladesh

Muhammad Ali

P1-57. Phage Therapy Modifies the Host's Intestinal Ecosystem by Modulating the Microbiome: A Meta-Analysis Approach

Laura Lorenzo-Rebenaque

P1-58. Prevalence and antibiotic resistance of Enterococcus faecium /faecalis isolated from broiler chicken meat in Poland

Olimpia Kursa

P1-59. Multidrug resistant escherichia coli and salmonella isolated from water, litter and meat in commercial poultry farms bio-security concern and emerging public health threat in pakistan

Aayesha Riaz



18:00-18:30

P1-60. Characterization of the *Clostridium perfringens* and *Clostridioides difficile* hazards in broiler slaughterhouses

Adeline Huneau-Salaün

P1-61. Identification and antibiotic susceptibility profiling of bacteria isolated from backyard poultry

Aayesha Riaz

P1-62. The fatty acid composition of egg yolk from hens fed diets differing in maize hybrid, rapeseed oil level and addition of emulsifier

Nives Marušić Radović

P1-63. Effect of a new 3-phytase on egg production and quality and bone mineralisation traits in laying hens

Mehran Javadi

P1-64. Eggshell quality in extended laying cycle

Nicolas Guyot

P1-65. Influence of natural pigments on the shelf life of eggs from Isa Brown layers

Cristina-Camelia Matache

P1-66. Evaluating the impact of temperature and storage duration on egg quality under tropical climatic conditions

Sonale Nagesh

P1-67. The effect of experimental *Ascaridia galli* infection on egg quality in three local chicken breeds

Leopold Schwarz



18:00-18:30

P1-68. From colorimetry to carotenoids deposition in egg yolk: impact of carotenoids combination on egg yolk pigmentation

Aurelia A. Séon Simon

P1-69. Protected sodium butyrate improves productive performance and egg quality in old laying hens

Beatriz Saldaña

P1-70. Influence of age on eggshell colour persistency in greenshell and blueshell layers

Filip Dytrt

POSTER SESSION 2



MULTIPURPOSE ROOM 1

hairpersons: L. Castillejos (SNiBA, Universitat Autònoma de Barcelona (UAB), Spain) & C. Marín-Orenga (University CEU Cardenal Herrera, Spain)

18:30-19:00

P2-01. Design of a moist feeding system for poultry

Salma Rian

P2-02. The effect of different indoor layers' housing systems on the changing of live weight of laying hens and its uniformity

Lilla Pető

P2-03. Productive and reproductive performance, dressing yield and chemical composition of different varieties of guinea fowl

Nushrat Nourin Lisa



18:30-19:00

P2-04. Promoting an innovative heating system for broiler chickens in rural communities in Cameroon: a preliminary study

Achille Schiavone

P2-05. Validation of an automated scale for continuous monitoring of the body weight in broiler chicken farming

Maria Roda Tena

P2-06. Thermographic analysis in 11 week old turkeys

Ezequiel Sánchez

P2-07. Poultry thermoregulation in the heat: seasonal acclimatization and partitioning of evaporative water losses

Thobela Nkukwana

P2-08. The impact of different types of serine proteases on growth performance and jejunal morphology in broilers

Reza Akbari Moghaddam Kakhki

P2-09. Microbiota profile and antibiotic resistance genes in the caecal content of broiler chickens are influenced by dietary protein content and the plant protein source

Oluyinka Olukosi

P2-10. Ileal amino acid digestibility of extracted sunflower meal, determined with layer type pullets

Nikoletta Such

P2-11. Maternal supplementation of guanidino acetic acid: Influence on egg composition and chick development

Corey-Ann Firman



18:30-19:00

P2-12. Neuropeptide hormone responses and jejunal absorption rate in broiler chickens receiving reduced protein diets: A comparison of branched-chain amino acids with lysine as proteinogenic amino acids

Oluyinka Olukosi

P2-13. Microbiome implications of total replacement of soybean meal in fast growing male broilers

Kirsty Gibbs

P2-14. Energy utilization and jejunal mRNA expression of nutrient transporters in broiler chickens fed for different feeding lengths diets containing resistant starches from raw potato or high amylose corn

Oluyinka Olukosi

P2-15. Novel sfericase protease improves amino acid digestibility of soybean meal and rapeseed meal in broiler chickens

Aurelia Seon

P2-16. Effect of rearing substrate on amino acid digestibility of back soldier fly larvae fed to broiler chicks

Emily Burton

P2-17. Response of broilers to dietary metabolizable energy levels from 0 to 4 days old

Matheus Reis

P2-18. Nutritional Potential of African Edible insects as food and feed

Sekobane Daniel Kolobe

P2-19. Alternative protein sources in broiler diets: effects on bird performance, welfare status and development of the gastro-intestinal tract

Tom Vingerhoets



18:30-19:00

P2-20. A new fermentation-based L-methionine (L-Met eco) has a better efficacy compared to petro-chemical based DL-methionine (DL-Met)

Behnam Saremi

P2-21. Dietary amino acid profile boosted in arginine and threonine improves growth performance of turkeys fed reduced crude protein diets

William Lambert

P2-22. Effect of solid-state fermentation on nutritional properties of oilseed cakes and in vitro digestibility in poultry

María Cambra-López

P2-23. Methionine requirements of slower growing broilers in the starter (d 0-10), grower 1 (d 10-24), grower 2 (d 24-38) and finisher (d 38-50) phases

Lotte Stokvis

P2-24. The use of an olive by-product as a source of insoluble fibre for pullet feeding

Eduardo Ruíz Herrero

P2-25. Study on Ganoderma lucidum plus phytase to solid-state ferment agricultural by-products producing functional feed

Tzu Tai Lee

P2-26. Development and application of fermented soybean hull by *Bacillus velezensis* as functional feedstuff

Tzu Tai Lee

P2-27. Effect of incorporating mango (*Mangifera indica*) feed and boiled mango seed kernel as partial substitutes for maize on the zootechnical performance of broilers

Hippolyte Mekuiko Watsop



18:30-19:00

P2-28. Effect of including dehydrated *Hermetia illucens* larvae on the productive performance of Isazul laying hens (27 to 38 week old)

Ana Montalbán Pérez

P2-29. Grape and Apple Pomace Antioxidant Capacity: Potential Inclusion in Poultry Diets

Gabriela María Cornescu

P2-30. Effect of offering low protein diets with with different levels of amino acids on broiler performance

Karine Bebin

P2-31. Efficacy evaluation of iron amino acid complexes (Fe-Lys-Glu) in laying hens: effects on laying performance, egg iron content and blood biochemical parameters

Cibele Torres

P2-32. Amino acid-complexed minerals supplementation improves laying hen performance, egg and bone Quality of 98-week-old hens

Cibele Torres

P2-33. Effect of partial or total replacement of soybean oil by *Hermetia illucens* larvae fat in layers diets on performance and apparent ileal digestibility of nutrients

Aleksandra Dražbo

P2-34. In-ovo feeding by glucose and its effect in improving hatchability of Fayoumi breeder

Amira Mahmoud



18:30-19:00

P2-35. The impact of fiber supplementation on energy metabolizability and the production of short-chain organic acids in broilers, depending on their age

Martina Lichovnikova

P2-36. Standardised ileal amino acid digestibility of maize grains dried at two different temperatures and supplemented or not with protease

Sebastian Kaczmarek

P2-37. Evaluation of dietary supplementation of garlic powder (*Allium sativum*) on the growth performance, carcass traits and meat quality of Japanese quail (*Coturnix coturnix japonica*)

Hassan Jalal

P2-38.

P2-39. Protection efficiency of different inactivated AIV-H5 vaccines against challenge with recent H5N1 clade 2.3.4.4 circulating virus

Wael Elfeil

P2-40. An overview of transmissible viral Proventriculitis in broiler chickens in Poland

Marcin Smialek

P2-41. Host mi RNA profiling of Vero cells during Avian orthoreovirus infection

Deepak Kumar

P2-42. Exploring iron scavenging as an under-explored mode for pathogen elimination by *Bacillus*-based probiotics

Krithika Venkatasubramanian



18:30-19:00

P2-43. Characterization of Escherichia coli MG1655 resistant variant after extended exposure to essential oils mixture

Claire Carlu

P2-44. Antimicrobial resistance among of Gallibacterium anatis biovar haemolytica isolated from chickens in Poland

Olimpia Kursa

P2-45. Positive effect of Euglena gracilis derived paramylon on immunoglobulin Y content of egg yolk

Valentine Van Hamme

P2-46. Immuno-boosting effects of lysozyme, essential oils, vitamins mixture of additives in response to live E. coli vaccine

Jasna Bošnjak-Neumüller

P2-47. Antimicrobial resistance of Escherichia coli isolates from broilers

Isabel Fabra

P2-48. In vitro comparison and evaluation of antimicrobial activity of ammonium and sodium formate combined with short-chain fatty acid salts in different microorganisms

Abdelhacib Kihal

P2-49. Mucolytic activity of essential oils, lysozyme, and vitamins' premix of additives intended for pigs and poultry

Jasna Bošnjak-Neumüller

P2-50. Probiotic in the control of mortality and lethality in experimentally challenged broiler chickens with avian pathogenic escherichia coli

Bruno Milagres



18:30-19:00

P2-51. Evaluation of the persistence of commercial lactobacillus spp in experimentally contaminated chicken litter with APEC

Bruno Milagres

P2-52. Quercetin can mitigate lipopolysaccharide induced apoptosis and oxidative stress in bursal and thymic lymphocytes

Vladimir Zmrhal

P2-53. Effects of short period of incubation during storage of eggs from different breeder ages on chick characteristics and nutrient transporters

Servet Yalcin

P2-54. Effects of breeder age on plasma glucose and lactate of newly hatched chicks

José Henrique Stringhini

P2-55. Use of dimethylacetamide for cryopreserving rooster sperm from an endangered breed: effects on sperm quality and sperm fertilizing ability

Eva Mocé

P2-56. Preliminary investigations on Mulard duck, as sterile recipient in gonadal tissue transplantation

Kitti Buda

P2-57. Research of breeding and improvement immune system in poultry

Ekaterina Barkunova

P2-58. Effects of stocking density and sex ratio on the reproductive parameters of breeding geese in indoor keeping system

Barbara Vegi



18:30-19:00

P2-59. GWAS for FCR and breast meat yield traits in Pekin ducks

Julien FABLET

P2-60. Decoding selective sweeps associated with tropical adaptability in Guinea fowl through whole-genome sequencing

Azhaguraja Manokaran

P2-61. Molecular characterization of Chicken B cell marker (ChB6) in native chicken of Poonch region from international borders of India and Pakistan

Mandeep Singh Azad

P2-62. Novel MHC-B haplotypes in Chantecler chickens

Jean-Marc Larivière

P2-63. Inclusion of eggshell thickness in a genetic improvement program in laying hens

Tomasz Szwaczkowski

P2-64. Application of impedance spectroscopy for the determination of body condition and pelvic fat content in breeder broiler hen

Cristina Guerra

P2-65. Semen quality parameters of Italian chicken breeds: characterization at the molecular level by proteomics

Silvia Cerolini

P2-66. Single Nucleotide Polymorphism related to maternal ability trait of Thai and Laos native chickens

Amonrat Molee



18:30-19:00

P2-67. Comparison of the nesting behaviour of white and brown pure line laying hens

Lina Hattendorf

P2-68. Key miRNA of chicken seminal plasma extracellular vesicles related with sperm motility regulation

Jilan Chen

P2-69. Genetics of daily feed efficiency in broiler lines divergent for digestive efficiency

Sandrine Mignon-Grasteau

P2-70. A crossbreeding as a proposal in a conservation program of Spanish 'Murciana' chicken breed

Laura Martínez Martínez

P2-71. Detection of male gametes from successful primordial germ cell implantation in a sterile interspecies hybrid

Eszter Várkonyi

POSTER SESSION 3



MULTIPURPOSE ROOM 1

Chairpersons: M. Mateos (University CEU Cardenal Herrera, Spain) & A. Callejo (Universidad Politécnica de Madrid, Spain)

18:00-18:30

P3-01. Growth performance of male layer-type chickens reared at different stocking density

Evgeni Petkov



18:30-19:00

P3-02. What emergency killing methods should be used for poultry weighing less than or more than 5kg?

Marie Bourin

P3-03. Weight lifting hens? The impact of sensor weight on the movements of aviary housed hens

Maja Makagon

P3-04. Development of an automatic device for the administration of mother hen uropygial secretion analogue in hatching eggs and its effect on vocalization at hatch

Marta Yerpes

P3-05. Differential effect of two different doses of organic selenium on production performance in White Leghorn layers

Anand Laxmi N

P3-06. Assessment of welfare and meat quality parameters of backyard native birds reared under deep litter versus cage rearing system

Asawaree Hable

P3-07. Stakeholders' attitudes toward painfulness of keel bone damage in laying hens: an empirical study from Serbia

Vesna Rodic

P3-08. Efficacy of alliaceous extracts in modulating cytokine response under heat stress in poultry: insights from in vitro macrophage studies

María Arántzazu Aguinaga Casañas

P3-09. Early characterization of behavioural reactivity in two Italian chicken breeds: a preliminary study

Stefano Paolo Marelli



18:30-19:00

P3-10. Measuring the chronic metabolic demands of keel bone fractures in brown-feathered end-of-lay hens

Jacob Brost

P3-11. Occurrence of feather damage, skin injuries, and keel bone deviations in dual-purpose hens in organic farming

Philipp Hofmann

P3-12. The effect of crossbreeding of local chicken breeds with commercial parental lines on animal welfare

Sonja Hillemacher

P3-13. Judgement bias test in dual-purpose chickens exposed to different environments

Josefine Stuff

P3-14. Field study on the behaviour, feed consumption and performance of laying hens in an aviary system

Julie Laclau

P3-15. Investigation of the use of different environmental enrichment elements in the case of different hens genotypes (preliminary results)

Lilla Petò

P3-16. Effect of including whole *Hermetia illucens* larvae in the diet on the stress levels in laying hens

Ana Montalbán Pérez

P3-17. Investigation of the use of different environmental enrichment elements for various waterfowl genotypes (a preliminary study)

Sándor Szász



18:30-19:00

P3-18. Welfare of spent hens in Flemish slaughterhouses: current situation

Anneleen Watteyn

P3-19. Gene expression of two egg proteins, VMO1 and AvBD11, in the laying hen

Magali Chessé

P3-20. Herbal adaptogen feed-additive modulates the hypothalamic expression of feeding-related neuropeptides in heat-stressed broilers

Sami Dridi

P3-21. Bone quality and incidence of urolithiasis in male broiler breeders fed a female or male ration

Nicola Tyler

P3-22. Role of novel natural nutritional emulsifier in optimizing fat utilization and energy saving in poultry diets

Shivi Maini

P3-23. Broiler chickens fed a low digestible diet improved intestinal health and growth performance when supplemented with a multi-component solution alone or combined with a protected blend of organic acids and essential oils

Heitor Vieira Rios

P3-24. Butyric and valeric glycerides alleviate sub-clinical necrotic enteritis effect on performance in broiler

Sm Mostafizur Rahaman Sumon

P3-25. Medium chain fatty acids reduce oxidative stress in intestinal Caco-2 cells

Laura Parro



18:30-19:00

P3-26. Effect of dietary enrichment with n-3 fatty acids by using lipid-based nanoparticles on growth performance, carcass composition, meat quality and fatty acid profile of breast meat in slow-growing Korat chickens

Wittawat Molee

P3-27. Optimizing the utilization of n-3 fatty acids for enhanced functional meat production in slow-growing Korat chickens involves evaluating the characteristics of glucose transporter-targeted lipid nanoparticles

Piyaradtana Homyok

P3-28. Effect of double buffered sodium butyrate associated with low energy-protein diets on small intestinal morphology and microbiota in broilers in a context of coccidiosis challenge

Xavier Roulleau

P3-29. Supplementation of a combination of lysolecithins, a synthetic emulsifier and monoglycerides on broiler performance and profitability during heat stress

David González Sánchez

P3-30. Supplementation of a combination of lysolecithins, a synthetic emulsifier and monoglycerides to diets of broilers containing phytase in super dosing, on performance and profitability

David González Sánchez

P3-31. In feeding line application of organic acids improved feed hygiene and growth performance in broiler chickens

Sandra Van Kuijk

P3-32. The effect of a selected blend of organic acids on controlling Salmonella Infantis in broiler chickens

Sandra Van Kuijk



18:30-19:00

P3-33. Effects of medium-chain fatty acids rich diets on intestinal morphology, microbiology and volatile fatty acids in young broiler chickens

Mateo Espinosa De Los Monteros Peñafiel

P3-34. Protected sodium butyrate improves productive performance and carcass characteristics in broiler chickens

Beatriz Saldaña Mancebo

P3-35. PAdaptation of Avian Orthoreovirus strain DVB 04 in Vero cells and its titration

R. Prarthana

P3-36. Genetic variability of infectious bursal disease virus (IBDV) in the Iberian peninsula

José Luis Arnal

P3-37. First report of Marek's disease virus in commercial turkeys in Slovenia

Zoran Žlabravec

P3-38. Efficacy of Probiotic via Drinking Water on Growth Performance of Broiler Chickens during Fowl Adenovirus Infection in UAE

Merghani Adam

P3-39. Epidemiology of infectious bursal disease virus in Portugal: replacement of local strains by Northwestern European reassortants as dominant field type

Matteo Legnardi

P3-40. Disease diagnosis through analysis of chicken mycoplasma antigens in 9th Industrialization and preservation-maintenance line of Korean Native Chickens(KNC)

Are-Sun You



18:30-19:00

P3-41. Immune status and reproductive performance in Broiler breeders

Joaquim Tarres

P3-42. Hyperpigmentation of laying hens at slaughterhouse associated with lesions in the reproductive tract.

Àlex Cobos Arnalot

P3-43. Efficacy of different IBD vaccines against the current IBDV circulating strains in the Benelux area

Nikolai Ongena

P3-44. Efficacy of different infectious bursal disease vaccines administered in the hatchery against a very virulent bursal disease challenge in broiler chickens

Luis Augusto Pantoja Millas

P3-45. Evaluation of organ lesions in broiler chickens exposed to mycotoxins

Damien Preveraud

P3-46. Molecular longitudinal surveys reveal circulation of chicken anemia virus genogroups IIIa and IIIb in Greece broiler breeder

Giulia Quaglia

P3-47. Extensive adenovirus molecular survey demonstrates predominant circulation of FAdV-D in Italian broiler flocks

Gabriele Lizzi

P3-48. Cranial osteomyelitis and meningoencephalitis associated with *Pasteurella canis* in broiler chickens

Leandro Cádiz Nuñez



18:30-19:00

P3-49. Foot pad dermatitis survey on three hungarian broiler farms

Márk Tóth

P3-50. Evaluation of haemagglutination Inhibition Assay (using FAdV-sensitized tanned chicken RBCs) to determine Humoral response to the challenge of novel Fowl Adenoviruses isolated from Pakistan during 2019-2022

Iqra Zaheer

P3-51. Phylogenetic analysis of partial sigma σ A of avian orthoreovirus

Surabhi Kashyap

P3-52. Comparative analysis of a partial fragment of σ and λ gene of avian reovirus

Laxmi Rathore

P3-53. Circulating genotypes of Mycoplasma spp. and their molecular profiles of antimicrobial resistance as a contribution to the diagnosis of avian mycoplasmosis in Colombia

Sara Forero

P3-54. Chemical and fatty acid profile of chicken meat from different housing systems

Mirjana djukic Stojcic

P3-55. Multi-omics analyses of chicken breast with spaghetti meat myopathy

Byungwhi Kong

P3-56. The impact of sustainable protein sources on meat quality of Redbro broiler chickens

Hannah Scott-Cook



18:30-19:00

P3-57. Effects of dietary inclusion of different lentil varieties on broilers' meat quality

Gabriela María Cornescu

P3-58. Nuclear Magnetic Resonance and Dielectric Spectroscopy as valuable tools to detect Wooden Breast abnormality in broiler chickens

Massimiliano Petracci

P3-59. Myopathies in broiler chicken breasts in a slaughterhouse from Argentina: prevalence, severity, and attributes contributing to the occurrence

Florencia Graciela Campostrini

P3-60. Nutritional value and quality of poultry meat affected by white striping, wooden breast and spaghetti meat myopathies

Marija Boškovic Cabrol

P3-61. Comparison of meat quality traits among the main chicken categories marketed in Italy: 1. Technological properties

Mara Antonia Gagliano

P3-62. Comparison of meat quality traits among the main chicken categories marketed in Italy: 2. lipid and protein oxidative stability

Emilia Luigia Antenucci

P3-63. Breast quality of poultry fed with diet supplemented with live black soldier fly larvae

Niko Gioacchino Zeni

P3-64. Effect of the application of pulsed electric fields in combination with salts on the drip water loss, texture and appearance of wooden breast meat in broilers

Tamara Anahí López



18:00-18:30

P3-65. Supplementation of olive oil-derived phytocomplexes in broiler chicken diets: effects on breast meat quality and oxidation changes of thigh meat during refrigerated storage

Emilia Luigia Antenucci

P3-66. Effect of the dietary inclusion of *Hermetia illucens* oil on fatty acid composition and technological properties of chicken meat

Mara Antonia Gagliano

P3-67. Effect of palm kernel fatty acid distillates and Black Soldier fly larvae oil on meat quality of Broiler Chickens

Laura Parro

POSTER SESSION 4



MULTIPURPOSE ROOM 1

Chairpersons: M. Mateos (University CEU Cardenal Herrera, Spain) & A. Callejo (Universidad Politécnica de Madrid, Spain)

18:30-19:00

P4-01. The positive impact of two *Bacillus*-based products on broiler performance and lesion scoring during necrotic enteritis-induced challenge

Florence Barbe

P4-02. Effect of yeast cell wall supplementation on broiler performance: analysis of 3 trials

Florence Barbe

P4-03. Reality of feed intake in layers related to zootechnical performances and improvement of feed intake quality with an innovative hydrolyzed yeast

Florence Barbe



18:30-19:00

P4-04. A global cross-study analysis in broilers of a multi-enzyme combination and Bacillus probiotic

Sasha Van Der Klein

P4-05. Relationships between microbiota and zootechnical parameters in laying hens after supplementation with probiotic *Pediococcus acidilactici* CNCM I-4622

Florence Barbe

P4-06. Efficacy of manganese sources for broilers: impact on performance and manganese accumulation

Ian Cockshott

P4-07. Probiotics in broiler chicks' diet fed with different sources of protein

Ciurescu Georgeta

P4-08. Effects of microencapsulated *Lactobacillus* spp. and cowpea seeds in broiler chickens' diets on production parameters, health status, and intestinal microbial population

Aurelia Nicoleta Lefter

P4-09. Effect of *Lactobacillus plantarum* on performance and gut microflora populations of broiler fed with alternative protein source

Mihaela Dumitru

P4-10. Elemental selenium limits the utilization of supplemented selenium in broilers

Amine Hachemi

P4-11. Reducing feed costs with phytase and NSP enzymes for rearing male layer chickens to potentially avoid day old culling

Saad Gilani



18:30-19:00

P4-12. The effect of synbiotic and probiotic preparations on the concentration of ochratoxin in meat, blood, liver and kidney of turkeys

Krzysztof Lipinski

P4-13. Effects on growth performance of enzyme feed addition for coccidiosis vaccinated Ross 308 broilers

Nadine Cariou

P4-14. Broiler chickens undergoing an intestinal challenge and supplemented with a bacterial xylanase demonstrated better nutrient digestibility, intestinal health and growth performance

Heitor Vieira Rios

P4-15. Effect of am/pm diet on laying performance and egg quality of laying hens

Nasima Akter

P4-16. Does the latest NASEM vitamin A requirement estimate support optimal growth in broiler chickens?

Yauheni Shastak

P4-17. Effect of the age and duration of the trial in the evaluation of the adequate mineral content and phytase dose in broilers

Mehran Javadi

P4-18. Evaluation of postbiotics on production performance in broiler chicken as an alternative to Antibiotic Growth Promoters

Monika M

P4-19. A novel phytase allows for higher level of inorganic phosphate substitution with no detrimental effect in hens during the late laying period

Cristiano Bortoluzzi



18:30-19:00

P4-20. The effect of muramidase in broiler feed on broiler performance in semi-field conditions

Necmettin Ceylan

P4-21. Muramidase supplementation enhances laying hen performance: a comprehensive analysis of three trials

Irene Eising

P4-22. The production benefits of full matrix application for a consensus bacterial 6-phytase variant alone or in combination with an enzyme mix of xylanase, amylase, and protease: review of two studies

Rachael Hardy

P4-23. The use of fibre-degrading enzymes in broiler feed containing wheat distiller's dried grains with solubles

Eunjoo Kim

P4-24. Source of limestone affects growth performance and bone mineralization of broilers

Cristiano Bortoluzzi

P4-25. Increasing the dose of a novel consensus bacterial 6-phytase variant improved ileal digestibility of Na and Mg in broilers

Yueming Dersjant-Li

P4-26. A novel phytase improves the responses of laying hens fed an inorganic phosphorus-free diet from 25 to 45 wk of age

Anna Maria Pérez-Vendrell

P4-27. Impact of added phytase and dietary InsP6 on the structure and the core microbiota of the digestive tract of broilers

Ismael Rubio-Cervantes



18:30-19:00

P4-28. Dietary synbiotics improve feed utilization, eggshell quality, and fecal ammonia emission of laying hens under tropical conditions

Yuwares Ruangpanit

P4-29. Effect of supplementing multicomponent mycotoxin detoxifying agent on performance, carcass variables, immune responses, and liver function variables in broiler chicken fed known concentrations of aflatoxin b1, deoxynivalenol and T-2 toxin

Jog Raj

P4-30. Bacillus licheniformis DSMZ 28710 to support high-producing laying hens during lay

Wouter Van Der Veken

P4-31. A meta-analysis evaluating the effect of Pediococcus acidilactici CNCM I-4622 on performances of laying hens

Florence Barbe

P4-32. The effect of yeast β -1,3/1,6 glucan administration on the growth performance of broilers in a model of subacute necrotic enteritis

Tri Duong

P4-33. The supplementation with glycinate of Zinc enhances the immune response and the antioxidant capacity in broilers

Javier López-Paredes

P4-34. NMR-based metabolic characterisation of broiler serum

Katie Wilshaw

P4-35. Solid state fermentation of wheat bran by Phellinus linteus applied in broiler diet

Tzu-Tai Lee



18:30-19:00

P4-36. Optimizing the nutritive value of broiler wheat-based diets through enzyme containing endo(xylo)-glucanase and beta-mannanase

Sara Llamas-Moya

P4-37. Evaluation of supplemented zinc-complexed minerals on performance of broilers fed diets formulated to maximize phytate hydrolysis in the intestinal tract

Cibele Torres

P4-38. Estimations of Ca digesta flows in broilers fed different dietary Ca and P levels: likely implications on digestibility studies

Ibtissam Kaikat

P4-39. The first evaluation of the resistance eimeria spp. isolated from the southern part of thailand against commercial anticoccidial drugs

Arithat Limsatanun

P4-40. Butyric glycerides act directly and indirectly to protect chicken intestine from pathogens colonization

Amine Mellouk

P4-41. Combining the benefits of postbiotics and phytogenics to promote early gut microbiota maturation

Anne Goderis

P4-42. Assessment of coccidiosis in broilers in france based on autopsy data from 2018 to 2022

Sarah Betz

P4-43. Comparison of the efficacy of different ionophores on the control of E. acervulina

Ben Dehaeck



18:30-19:00

P4-44. The Impact of *E. acervulina* on FCR

Ben Dehaeck

P4-45. Saponin-rich plants mixture supports coccidiosis vaccination program in broiler chickens: a case study of floor pen challenge model.

Mohammed El Amine Benarbia

P4-46. Effect of uncoated-buffered sodium butyrate supplementation in diet on small intestinal morphology under high stocking density of broilers

Julián Melo

P4-47. Supplementation of a synbiotic and a precision biotic improves the growth performance of broiler chickens submitted to coccidiosis vaccination

Bortoluzzi Cristiano

P4-48. Evaluation of the effects of a bacterial probiotic in experimentally induced necrotic enteritis

Elen Rondel

P4-49. Standardized workflow for microbiome analysis – methodology and application in commercial broiler farms

Sergi Raurich

P4-50. Effects Of Dietary Polyphenol Extracts And Zinc Bacitracin On The Caecal Microbiome Of Young Broilers

Saheed Salami

P4-51. Effect of a triple-strain bacillus-based probiotic on in vitro inhibition of *Enterococcus cecorum* isolated from clinical broilers

Sarah Betz



18:30-19:00

P4-52. Exploring the antimicrobial potential of glycerides of medium chain fatty acids in a simulated poultry gastrointestinal environment

Nuria Vieco-Saiz

P4-53. Intestinal microbiota responses to the dietary supplementation of bacillus sp. pb6 and fiber level in broiler chickens

Karen Vermeulen

P4-54. Effects of phytobiotics based on tannins, saponins, and organic acids on performance and intestinal health of broiler chickens infected with different Eimeria species

Marko Pajic

P4-55. Safety and immunogenicity of the associated administration of an in ovo coccidiosis vaccines, an infectious bursitis disease immunocomplex vaccine and a rHVT-ND vaccine in commercial broilers

Luis Augusto Pantoja Millas

P4-56. Evaluation of the productive performance of commercial broilers vaccinated against coccidiosis with an in ovo vaccine in comparison with a coccidiosis coarse spray vaccine

Luis Augusto Pantoja Millas

P4-57. Floor pen study to compare the effects of different in-feed treatments against a mixed eimeria spp. inoculum challenge

André Pereira

P4-58. Bacillus licheniformis DSMZ 28710 to mitigate gut health challenges in high-producing broilers

Wouter Van Der Veken

P4-59. Identification of different Eimeria species presence and enumeration of coccidia oocysts in layer poultry flocks in Greece

Evgenios Chalvatzis



18:30-19:00

P4-60. Broiler performance and health feeding different sources of minerals

Luigi Moreira

P4-61. In vitro efficacy assessment of sodium dichloroisocyanurate (SDIC) with potassium monopersulphate (PMP) disinfectant against poultry viruses, yeast, and fungi

Jia Hui Tee

P4-62. In vitro bactericidal activities of sodium dichloroisocyanurate (SDIC)/ potassium monopersulfate (PMP) disinfectant against common poultry bacteria

Wei Shen Tong

P4-63. How dependant on cassia oil is E.Coli inhibition ?

Claire Carlu

P4-64. Characterization of the chemical contents of selected insects as food and feed

Emmanuel Malematja

P4-65. Elimination of mycoplasma species from the semen of Hungarian native goose

Barbara Vegi

P4-66. Genetic and acoustic characters of Indonesian long crowing chicken for contest purposes

Maria Ulfah

P4-67. Comparison of four non-linear growth models in free-ranging lohmann dual cockerels

Alexandr Torres



18:30-19:00

P4-68. Comparative study on production performance of brown and white variety of Japanese quail (*Coturnix coturnix japonica*)

Shahbaz Haroon Khan

P4-69. Effects of different housing systems on the performance of laying quails

Philipp Hofmann

P4-70. Characterizing the interface: Seasonal changes in bird communities on poultry farms and house sparrow - wild bird contacts revealed by camera trapping

Alberto Sánchez Cano

P4-71. Comparative analysis of growth performance and economics in various germplasm of chicken for backyard farming

Rajshree Dhoulpuri

P4-72. Poultry in vitro digestion model allows a relevant evaluation of raw materials nutritional value

Stéphanie Klein

P4-73. Development of a virtual poultry slaughterhouse simulator to train veterinary students in Europe

Alessandra De Cesare

P4-74. Agripreneurship intentions in the poultry sector of youth in a tertiary institution

Harry Swatson

P4-75. Empowering consumers to choose safer chicken in informal markets in Ouagadougou, Burkina Faso

Gemma Tacken



XVI European Poultry Conference

18:30-19:00

P4-76. Economic efficiency of males of dual-purpose genotypes in organic poultry production in Germany

Petra Thobe
