



Córdoba Spain | June 8-10, 2022

June 8 to 10, 2022

Scientific program

ORAL PRESENTATIONS SESSIONS

Córdoba Conference and Exhibition Centre

C. Torrijos, 10

14003 Córdoba (Spain)



ASOCIACIÓN
ESPAÑOLA DE
CIENCIA AVÍCOLA
(AECA - WPSA)



UNIVERSIDAD
DE
CÓRDOBA

10:00	13:30		YOUTH PROGRAM Auditorio Embajadores
10:00	11:45	W1-01	Author workshop: how to write a review article Author to Confirm
12:00	13:30	W2-01	How does poultry defend itself from insults Mamduh Sifri and Achille Schiavone

14:30	15:00	Opening Session Location: Auditorio Embajadores	
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15:00	16:00		PLENARY SESSION I- POULTRY ECONOMICS Chair persons: Dr. Yves Nys, Dr. Roel Mulder Auditorio Embajadores
15:00	15:30	K1-01	The Commodity Price Crisis - Threats and Opportunities Joaquín Narro
15:30	16:00	K1-02	Development of egg production and consumption in low-income countries of Africa Vincent Guyonnet

16:00	17:00		PLENARY SESSION II- REPRODUCTION AND GENETICS Chair persons: Dr. Martino Cassandro, Dr. Avigdor Cahaner Auditorio Embajadores
16:00	16:30	K2-01	Using high throughput phenotyping of growth and feed intake to improve adaptation of chickens to sustainable diets Sandrine Mignon-Grasteau
16:30	17:00	K2-02	Optimising layer breeding using dual purpose marketing Roy Trott

17:00	18:30	Poster Session I Patio Medina Azahara	
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ORAL PARALLEL SESSION II- REPRODUCTION AND GENETICS

17:10 18:30

Chair persons: Dr. Martino Cassandro, Dr. Avigdor Cahaner

Auditorio Embajadores

17:10	17:20	O2-01	Phenotypic characterization of two native Italian chicken (<i>Gallus gallus domesticus</i>) breeds for quantitative semen production and behavioural reactivity.	Stefano Paolo Marelli
17:20	17:30	O2-02	Effect of feed consumption and age at light stimulation on broiler breeders' performance up to 50 wk of age	Juan Carlos Abad Moreno
17:30	17:40	O2-03	Assessing of Runs of Homozygosity in indigenous poultry breeds of the Veneto region	Filippo Cendron
17:40	17:50	O2-04	Genetic characterization of indigenous chicken breeds of Italian North-central region	Francesco Perini
17:50	18:00	O2-05	The origin of the domestic turkey and early distribution in Europe	José Ignacio Salgado Pardo
18:00	18:10	O2-06	Data, big and small, the way to optimisation in animal production	África Fernández Gutiérrez
18:10	18:20	O2-07	Alternative sustainable broiler feed formulations with local ingredients and Black soldier fly larvae: what do stakeholders think in Turkey?	Özlem Karahan Uysal
18:20	18:30	O2-08	Local italian poultry breed for alternative farming systems development	Edoardo Fiorilla

17:10 18:30

ORAL PARALLEL SESSION III- QUALITY OF PRODUCTS

Chair persons: Dr. Nuhad Dagher, Mr. Jaime Sarabia

Sala Julio Romero de Torres

17:10	17:20	O3-01	Turkey meat quality traits as affected by gender and muscle type	Massimiliano Petracci
17:20	17:30	O3-02	Effect of Electrical Stimulation, Deboning Time and Marination on Fresh and Frozen Broiler Meat Quality	Sher Ali Rajput
17:30	17:40	O3-03	Effects of including camelina cake in laying hens on physic-chemical and sensory egg quality	Alba Cerisuelo Garcia
17:40	17:50	O3-04	Effect of eggshell temperature on bone parameters of layers	Servet Yalçin
17:50	18:00	O3-05	Bone mineralization and bone quality in chickens	Alejandro Rodríguez-Navarro
18:00	18:10	O3-06	Relationship between bone quality, egg production and eggshell quality in laying hens at the end of an extended production cycle	Clara Alfonso-Carrillo
18:10	18:20	O3-07	Influence of management on Salmonella Infantis shedding and antibiotic resistance evolution during growing period: preliminary results	Laura Montoro Dasí
18:20	18:30	O3-08	Bacteriophage prevalence from poultry farms according to the productive orientation: preliminary results.	Sandra Sevilla Navarro
18:30	18:40	O3-09	Polyphenols as effective solution to improve Meat Quality and Antioxydant status of Broilers	Katrien Deschepper

19:00 20:00

20:30 22:00

Mosque-Cathedral visit

Opening ceremony - Welcome cocktail

Location: Caballerizas Reales de Córdoba



09:00	10:00		PLENARY SESSION III- POULTRY NUTRITION AND ALTERNATIVE FEED ADDITIVES	
			Chair persons: Dr. Ana C. Barroeta, Dr. Achille Schiavone Auditorio Embajadores	
09:00	09:30	K3-01	Poultry production under alternative productions systems. Bird welfare and production	Gonzalo G. Mateos
09:30	10:00	K3-02	Feeding fibrous diluted diets to broiler breeder pullets.	Xavier Asensio Dávila
10:00	10:30		PLENARY SESSION IV- POULTRY ENVIRONMENT AND MANAGEMENT	
			Chair persons: Mr. José M. Díez Gata Auditorio Embajadores	
10:00	10:30	K4-01	The basis of the environmental control in farms	Michael Czarick
10:30	11:00		Coffee Break	Patio Medina Azahara
11:00	13:30		POSTER SESSION II	Patio Medina Azahara
11:00	13:30		ORAL PARALLEL SESSION III- POULTRY HEALTH	
			Chair persons: Dr. Evangelia Sossidou, Dr. Mar Biarnés Sala Julio Romero de Torres	
11:00	11:10	O4-01	Avian Influenza H3N1 outbreak in the western part of Belgium 2019: lessons learned and strategies for the future	Hilde Van Meirhaeghe
11:10	11:20	O4-02	Virucidal effect of a disinfectant based on quaternary ammonium compounds and glutaraldehyde against the avian influenza virus - 3 validation trials	Elisabet Rodríguez
11:20	11:30	O4-03	Field evaluation of safety and efficacy of a combination of live infectious bronchitis Mass and 793B plus Newcastle disease VG/GA Avinew vaccines sprayed in the hatchery onto day-old free-range (Label Rouge) chicks in France.	Delquigny Thomas
11:30	11:40	O4-04	Evolution of infectious bronchitis vaccine viruses reisolated from vaccinated broilers	Boudaoud Amine
11:40	11:50	O4-05	Protection against IBV challenge during the production period	Husam Bakri
11:50	12:00	O4-06	Infectious Bronchitis strains of new appearance in Spain during 2019-2021	Alberto Giner
12:00	12:10	O4-07	Update of IBV variants circulating in Spain in 2018-2022 period	José Luis Arnal Bernal
12:10	12:20	O4-08	Impact of vaccination strategies on infectious bronchitis virus epidemiology, control and diagnosis within the Italian context	Matteo Legnardi

12:20	12:30	O4-09	Identification of a novel infectious bursal disease virus genotype circulating in Portugal	Matteo Legnardi
12:30	12:40	O4-10	Successful Gumboro disease prevention in French « Label Rouge » chickens	Christophe Cazaban
12:40	12:50	O4-11	Live vaccination for Turkey haemorrhagic enteritis proves effectiveness in control virus circulation and related disease	Caterina Lupini
12:50	13:00	O4-12	Study of Co-Infection of Chicken Infectious Anemia Virus with Fowl Adenovirus in Commercial Poultry	Muhammad Kashif Saleemi
13:00	13:10	O4-13	Pathogenicity of fowl adenoviruses serotype 11 isolated from chickens Associated with inclusion body hepatitis in Morocco	Samira Abghour
13:10	13:20	O4-14	Evaluation protection of ND vaccination regimes against early challenge with Velogenic Newcastle virus-VII.1	Wael Elfeil

11:00 13:30 PARALLEL WORKSHOP 3- POULTRY ENVIRONMENT

Auditorio Embajadores

11:00	13:30	W3-01	The basis of the environmental control in farms Michael Czarick
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13:30 15:00 Lunch Break El Bandolero Restaurant

15:00 16:00 PLENARY SESSION V- POULTRY HEALTH

Chair persons: Dr. Rüveyde Akbay, Dr. Mar Biarnés

Auditorio Embajadores

15:00	15:30	K5-01	Mitigating the effects of high temperatures in birds: involvement of epigenetic mechanisms	Vincent Coustham
15:30	16:00	K5-02	Emergent diseases affecting poultry in different production systems	Matthias Voss

16:00 18:00 POSTER SESSION III
Patio Medina Azahara

16:00 17:30 ROUND TABLE- POULTRY HEALTH

Cooperation among Mediterranean Neighboring countries in Managing diseases

16:00 18:00 ORAL PARALLEL SESSION V- POULTRY NUTRITION

Chair persons: Dr. Achille Schiavone, Dr. Ana C. Barroeta

Sala Julio Romero de Torres

16:00	16:10	O5-01	Effect of the replacement of vitamin E by polyphenols in the diet on productive performance of broilers from 0 to 38 days of age	Gonzalo González
16:10	16:20	O5-02	Use of chestnut tannins in different broiler diets and its effect on performance and meat quality	Marta Lourenço
16:20	16:30	O5-03	Eugenol improves productive performance in broilers	José Antonio Moreno

16:30	16:40	O5-04	Exploration of Zingiber officinale effects on performance, immunity and gut morphology in broilers	Abdur Rahman
16:40	16:50	O5-05	Effects of dietary organic acids on performance, caecal microbiota and gut morphology in broilers	Abdur Rahman
16:50	17:00	O5-06	Effects of a blend of glycerol esters of fatty acids on the performance and intestinal microbiota of broiler chicks in a necrotic enteritis challenge model	Vasileios Tsiouris
17:00	17:10	O5-07	Effect of sodium butyrate protected with sodium salt of medium-chain fatty acids on ileum morphology and serum parameters in broiler chickens	Meritxell Sadurní
17:10	17:20	O5-08	Dietary supplementation with a microencapsulated blend of organic acids and essential oils affects gut microbiota and broiler performance under a necrotic enteritis challenge	Nedra Abdelli
17:20	17:30	O5-09	The effects of supplementing monobutyrim on the performance and production efficiency of turkeys fed on a wheat, corn, soybean and rapeseed meal-based diet	Luke Barnard
17:30	17:40	O5-10	Effects of addition of Saccharomyces cerevisiae boulardii on multiple parameters on broiler health and productivity	Aleksandar Dodovski
17:40	17:50	O5-11	Effects of pediococcus acidilactici and saccharomyces cerevisiae on broiler chickens challenged with clostridium perfringens induced sub-clinical necrotic enteritis	Merati Rachid
17:50	18:00	O5-12	Postbiotics of laboratory isolated Lactobacillus plantarum improved the growth performance, gut development and intestinal microbiota in broiler chickens	Beulah V. Pearlin

18:00 19:00 **General Assembly AECA**
Auditorio Embajadores

20:30 23:00 **Social Dinner**
Real Círculo de la Amistad



Fri. 10th June 2022 *CÓRDOBA CONFERENCE AND EXHIBITION CENTRE*

09:00	11:00	PLENARY SESSION VI- FOOD SAFETY AND QUALITY	
		Chair person: Dr. Massimiliano Petracci Auditorio Embajadores	
09:00	09:30	K6-01	Contribution of the Poultry Industry to Food Security in the MENA Region: A Review Nuhad Daghir
09:30	10:00	K6-02	Understanding in hen mechanisms of ionic supply, eggshell mineralization and Ca metabolism to control shell defect Yves Nys
10:00	10:30	K6-03	Quality defaults in slaughtering Wim Tondeur
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10:30	11:00	Cofee Break	Patio Medina Azahara
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11:00	13:00	PARALLEL WORKSHOP 5- MEAT QUALITY	
		Auditorio Embajadores	
		W5-01	Quality defaults in slaughtering Wim Tondeur
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11:00	13:00	POSTER SESSION IV	
		Patio Medina Azahara	
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11:00	13:00	ORAL PARALLEL SESSION VI- POULTRY NUTRITION	
		Chair person: Dr. María Soto Sala Julio Romero de Torres	
11:00	11:10	O6-01	Early feeding and its benefits for the poultry industry África Fernández Gutiérrez
11:10	11:20	O6-02	In ovo administration of selected nucleosides improved the performance and digestive enzymes activity in broiler chickens Manoj Kumar Vellavan
11:20	11:30	O6-03	Utilization of "diluted splitfeeding system" in adult broiler breeder hens Clara Alfonso-Carrillo
11:30	11:40	O6-04	Protein value of Spanish camelina meal and cake in broilers: preliminary results Alba Cerisuelo García
11:40	11:50	O6-05	Guanidinoacetic acid secures Arginine supply and enhances Creatine metabolism in broiler chickens fed low crude protein diets Vivienne Inhuber
11:50	12:00	O6-06	Use of high-oleic oils in broiler diets: effects on abdominal fat depot and carcass yield Gerard Verge-Mèrida
12:00	12:10	O6-07	True Ileal Digestible Energy System for Poultry: An Alternative to Metabolisable Energy System? M. R. Abdollahi
12:10	12:20	O6-08	Effects of supplementation of β -galacto-oligosaccharides and methionine on production performance, meat quality, Habib Rehman
12:20	12:30	O6-09	Evaluating synbiotic, enhanced organic acid, or combined supplementation for the reduction of Campylobacter in broilers Mohamad Mortada

12:30	12:40	O6-10	Effect of symbiotic on intestinal histomorphometry and growth rate in quails, experimentally infected with field strain of <i>Salmonella gallinarum</i>	Asad Aslam Khan
12:40	12:50	O6-11	Combining Massachusetts vaccine virus with QX or 4/91 vaccine virus induces protection to challenge with IB QX and 4/91 virus	Sjaak de Wit

13:00 14:30 Lunch Break El Bandolero Restaurant

14:30 15:00		PLENARY SESSION VII- BROILER GENETICS and BREEDING: PAST and PRESENT		
Chair person: Dr. Servet Yalçın				
Auditorio Embajadores				
14:30	15:00	K7-01	70 years of broiler breeding for rapid growth - achievements, negative consequences, and their genetic mitigation	Avigdor Cahaner

15:00 15:30		PLENARY SESSION VIII- POULTRY HEALTH		
Chair persons: Dr. Estela Prukner-Radovcic, Dr. Roser Dolz				
Auditorio Embajadores				
15:00	15:30	K8-01	Poultry production and health: Current and future challenges	Hafez M. Hafez
15:30	16:00	K8-02	Strategies and practices to prevent keel bone damage in poultry industry	Evangelia Sossidou

16:00 18:00		ORAL PARALLEL SESSION VII- POULTRY HEALTH AND FOOD SECURITY		
Chair persons: Dr. Estela Prukner-Radovcic, Dr. Roser Dolz				
Auditorio Embajadores				
16:00	16:10	O7-01	Foot-pad dermatitis: Potential parameter for poultry welfare	Omar Bennoune
16:10	16:20	O7-02	Astragaloside-IV inhibit tibial dyschondroplasia on vascular endothelial cell based PI3K/Akt/HIF-1 α signaling	Khalid Mehmood
16:20	16:30	O7-03	Modulation of suppression of HIF1 α /VEGF/VEGFR signaling pathway by Geldanamycin in avian tibial dyschondroplasia	Muhammad Shahzad
16:30	16:40	O7-04	Peritoneal washings in poultry: limitations and proposed solution	Ferhat Nouicer
16:40	16:50	O7-05	Synergistic effect of experimentally induced aflatoxin B1 and Ochratoxin A on performance, immunity, livability and serum biochemistry in broiler chickens	T Tamilmani
16:50	17:00	O7-06	Immunopathological effects of concurrent feeding of ochratoxins and sea buckthorn in commercial broilers	Muhammad Kashif Saleemi
17:00	17:10	O7-07	Combined use of two attenuated <i>S. Enteritidis</i> and <i>S. Typhimurium</i> vaccines to reduce excretion of challenge strains	Lourdes Sisquella Molla
17:10	17:20	O7-08	<i>Salmonella</i> control in broiler production by microencapsulated bacteriophages feed added	Laura Lorenzo-Rebenaque

17:20	17:30	O7-09	Antibacterial activity of silver nanoparticles against Clostridium perfringens infection in broilers	Mohamed Shaalan
17:30	17:40	O7-10	Stakeholders' perceptions about the antimicrobial use practices and antimicrobial resistance issues in the Italian poultry sector	Caetano Luiz Beber
17:40	17:50	O7-11	Safety of a modified live Escherichia coli vaccine, when administered to chickens during lay	Tura Bru Ras
17:50	18:00	O7-12	Concomitant monitoring of Clostridium perfringens and Eimeria species in fecal samples of conventional and slow-growing broiler flocks by multiplex qPCR	Emeka Ignatius Igwe

ORAL PARALLEL SESSION VIII- ENVIRONMENT AND MANAGEMENT

16:00 18:00

Chair persons: Dr. Servet Yalçin, Dr. Alba Cerisuelo
Sala Julio Romero de Torres

16:00	16:10	O8-01	Plasma and muscle metabolomics profiling of modern broiler chickens exposed to chronic heat stress	Marco Zampiga
16:10	16:20	O8-02	Thermal stress in day-old chicks: risk factors and effects on mortality	Marta Yerpes Ron
16:20	16:30	O8-03	The effect of monochromatic, combined, and mixed light-emitting diode light regimes on growth traits in broiler chickens	Dost Mohammad Haqyar
16:30	16:40	O8-04	Comparison of performance and developmental stability characteristics of broilers reared in conventional and extensive indoor systems	Dost Mohammad Haqyar
16:40	16:50	O8-05	Best Practice Hens: tools and strategies to support egg production during transition to non-cage egg production systems in the EU	Inma Estevez
16:50	17:00	O8-06	Animal welfare assessment: quantifying differences among commercial medium and fast growth broiler flocks	Xavier Averós
17:00	17:10	O8-07	Effect of peat and wood shaving bedding on the NH3 level during the broiler fattening period.	Liga Paura
17:10	17:20	O8-08	Behaviour of Romagnola geese reared in different agroforestry systems	Alice Cartoni Mancinelli
17:20	17:30	O8-09	Comparative effect of light emitting diode versus traditional light sources on performance, slaughter characteristics, immunity and gland's weight of broiler.	Asad Aslam Khan
17:30	17:40	O8-10	Characterization of feed and litter for the estimation of metals contamination in the air of broiler houses	Roheela Yasmeen
17:40	17:50	O8-11	Endocrinological gender identification in the hatching egg as solution to end chick culling.	Ana E. Blanco García

18:00 18:30

Closing Session and Ceremony

Auditorio Embajadores





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DIGITAL POSTERS SESSIONS

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Wed. 08 June 2022 *CÓRDOBA CONFERENCE AND EXHIBITION CENTRE*

17:00 18:30 POSTER SESSION 1: NUTRITION AND EDUCATION

P1-01	Poultry science education in Algeria	Nadir Alloui
P1-02	A nutritional perspective regarding the productive performances of the broiler chicken	Voicu Sorina Nicoleta
P1-03	Effects of different dietary energy and protein levels on the production performance and carcass characteristics of native hilly chicken during growing	Halima Khatun Khatun
P1-04	Effects of a short-term fasting period challenge to young broiler chickens on splenic immune gene expression.	David Menoyo
P1-05	Comparative study on using a dietary vegetable by-product (sea buckthorn meal) in broiler reared under thermoneutral conditions vs. high heat stress on	Mihaela Saracila
P1-06	Environmental impact of laying hen feeds using low impact alternative ingredients and insect inclusion	Ana Montalbán Pérez
P1-07	Solid-state fermentation improves the nutrient composition of lupin flour for inclusion in broiler diets	Oladapo Olukomaiya
P1-08	Investigation of the in vitro antimicrobial activity of phytogetic feed additives against common poultry pathogens	Vasileios Tsiouris
P1-09	In vitro investigation of commercial poultry acidifiers against potential poultry pathogens	Vasileios Tsiouris
P1-10	Efficacy of an attenuated coccidiosis vaccine in combination with different additives on production performance and intestinal lesions in broilers	Luis Pantoja Millas
P1-11	The effects of some antioxidant feed additives on digestive enzymes activity in Tetra-SL laying hens	Popescu Roua Gabriela
P1-12	The use of Xylanase in laying hen production: can it also modulate the microbiome?	Veerle V Van Hoeck
P1-13	The effects of deoxynivalenol and zearalenone co-contaminated diets on broiler chickens at 21 days of age	Insaf Riahi
P1-14	Investigating the combined effect of medium-chain fatty acids and phytogetic extracts on broiler growth efficiency	David Hermans



P2-01	Muscovy duck fed black soldier fly larvae meal: effects on blood parameters and antioxidant status	Marta Gariglio
P2-02	Blood chemistry of medium-growing male and female chickens supplemented black soldier fly live larvae	Valentina Bongiorno
P2-03	Growth performance and jejunal cytokine expression in broiler chickens fed graded levels of Sea-Buckthorn (<i>Hippophaes rhamnoides</i>) berries	Vasil Pirgozliev
P2-04	Feeding black pepper (<i>Piper nigrum</i> L) and xylanase to broiler chickens	Vasil Pirgozliev
P2-05	Influence of dietary fat source on biochemical blood profile in laying hens	Maria Palomar
P2-06	Effect of free fatty acid content and degree of fat saturation on bone calcium reserves and eggshell quality	Maria Palomar
P2-07	Combination of palm fatty acid distillate with soybean oil in broiler chicken diets: fat digestibility along the gastrointestinal tract	Beatriz Jimenez Moya
P2-08	Effect of a new 3-phytase on egg production and quality and bone mineralisation traits in laying hens	Mehran Javadi
P2-09	Validation of the nutritional matrix of a multienzyme complex through performance and digestibility improvement	David Gonzalez Sanchez
P2-10	Effects of lysolecithin supplementation on ileal digestibility of energy, fatty acids, and amino acids in broilers	David Gonzalez Sanchez
P2-11	Effects of a combination of lysolecithins, a synthetic emulsifier, and glycerol monooleate on growth performance, intestinal morphology, and selected carcass traits in broilers, fed low-energy diets without added oil.	DAVID GONZALEZ SANCHEZ
P2-12	Influence of lysophospholipid content and metabolizable energy level in laying hen diets on performance and egg quality	Araceli Orozco Mas
P2-13	Influence of different concentrations of artificial pigments on the egg yolk color and content of carotenoids	Zlatko Janjecic
P2-14	Effect of yeast cell wall supplementation on broiler chickens performances under chronic heat stress	Vanessa Demey
P2-15	The effect of in-ovo exposition to ethanol upon osteogenesis of the chicken embryo	Khenenou Tarek
P2-16	Morpho- histological study of the spleen of broiler chickens during post-hatching age	Khenenou Tarek
P2-17	External and internal characteristics of eggs of different varieties of Utrerana avian breed compared to commercial laying lineages	Antonio González Ariza
P2-18	Preliminary results of reproductive traits of the Andalusian turkey	Antonio González Ariza
P2-19	Genome-wide scan for selection signatures in Italian local chicken breeds	Francesco Perini
P2-20	Effects of an <i>Allium</i> derivate on productive parameters in turkey farms.	María Arántzazu Aguinaga
P2-21	Supplementation of DL-methionine at 65% of MHA-FA support similar performance in broilers	Gabriel da Silva Viana

Thu. 09 June 2022 *CÓRDOBA CONFERENCE AND EXHIBITION CENTRE*

16:00 18:00

POSTER SESSION 3: HOUSING, MANAGEMENT AND QUALITY OF PRODUCTS

P3-01	Effect of feeder space and stocking density on broiler breeders' performance up to 50 wk of age	Juan Carlos Abad Moreno
P3-02	Effect of early age heat treatment on chronic heat stress resistance of broilers	KwanSeob Shim
P3-03	Effect of different levels of light intensity on behavior and blood profile of broiler	Asad Aslam Khan
P3-04	Differences in productive parameters from fast-growing and alternative slow-growing chickens fed with a conventional and a slow-growing diet	Raquel Berrocal
P3-05	Welfare indicators evaluation from fast-growing and slow-growing chickens in a conventional and slow-growing cycle	Raquel Berrocal
P3-06	Behavioural reactivity of slow-growing chickens fed live black soldier fly larvae: preliminary results	Stefano Paolo Marelli
P3-07	Application of a visual scoring system for the assessment of litter quality as an on farm welfare indicator in commercial broiler production	Leonardo James Vinco
P3-08	Humic acids and their effect on ammonia concentrations, final live weight and mortality of broilers	Zuzana Palkovičová
P3-09	Greenhouse gas emissions from the Croatian poultry production over the last decade (2010 - 2020)	Goran Kis
P3-10	Influence of supplementation with saccharose and fasting on broiler meat quality	Maria del Mar Campo
P3-11	The influence of using a natural antioxidant in broiler diet enriched in polyunsaturated fatty acids, on meat quality	Tatiana Dumitra Panaite
P3-12	Effects of dietary supplementation of olive pomace acid oil on TBA values, colour and sensory acceptance in poultry meat	Paula Albendea
P3-13	The use of grape pomace in broilers diet enriched in polyunsaturated fatty acids	Raluca Paula Turcu
P3-14	Effects of breed, gender and slaughtering age on fatty acid profile of breast and thigh meat of two Italian slow-growing chicken breeds	Siheem Dabbou
P3-15	Antioxidant status, growth performance and meat quality in chickens raised under conventional and alternative commercial production systems	Vasiliki Moulasioti
P3-16	Influence of feed with high level insect meal inclusion on broiler meat quality	Michela Contò
P3-17	Effect of feeding synthetic carotenoid on immunity and shank color in broiler breeders	Prabakar Govindasamy
P3-18	Antimicrobial resistance associated genes and mutations in <i>E. coli</i> from Italian antibiotic free broiler carcasses	Frédérique Pasquali
P3-19	Effect of the genetic hen line on fatty-acid composition of egg yolk	Eva Mocé
P3-20	Characterization of eggs from Italian chicken breeds: preliminary bromatological results.	Margherita Marzoni
P3-21	Epidemiology of non-Typhoidic Salmonella infections in Algeria	Ayachi Ammar

11:00	13:00	POSTER SESSION 4: POULTRY HEALTH	
P4-01	Detection of antibodies against hemorrhagic enteritis of turkeys in serum samples collected on farms in Ecuador.		Marco Cisneros
P4-02	Evaluation efficacy of MEFLUVAC-H5 against early challenge by HPAI-H5N1		Wael Elfeil
P4-03	Marek's disease in free-range poultry: gross pathology and histopathological investigations		Khaled Kaboudi
P4-04	A Novel recombinant Herpes virus of turkey expressing F- gene of Newcastle disease (rHVT-F) reduces velogenic genotype VII Newcastle disease virus		Ahmed Setta
P4-05	Safety of an immune complex vaccine against infectious bursal disease when applied subcutaneously in slow-growing broiler type chickens under field		Marta Busquet-Sol
P4-06	Findings of reassortant IBDV strains of genogroup A3B1 in commercial broiler flocks in Germany		jaime sarabia
P4-07	Comparison between an immune complex and an r-HVT vaccination program for IBD in one rearing layers farm in Italy.		Jaime Sarabia
P4-08	Monitoring of a Salmonella live-attenuated vaccine excretion during the rearing and laying periods in broiler breeders.		Jaime Sarabia
P4-09	Assessment of the blue dye in the Salmonella vaccine concentration		Jaime Sarabia
P4-10	Safety and efficacy of an attenuated Salmonella Enteritidis vaccine applied during laying period in commercial hens		Lourdes Sisquella Mollà
P4-11	Antibiotic resistance trends of Salmonella spp. in poultry farming (2015-2017)		Verónica Cortés
P4-12	Antimicrobial resistance from 2019 to 2021 in Escherichia coli strains from poultry		Verónica Cortés
P4-13	Revalence and seroprevalence of Mycoplasma synoviae in laying and broiler breeders in eastern Spain		Verónica Cortés
P4-14	Antimicrobial resistance characterization from Campylobacter strains isolated from poultry breeders and their progeny in Eastern Spain		Ana Jiménez
P4-15	In vitro characterization and immunogenicity of chitosan nanoparticles loaded with native and inactivated extracellular proteins from a field strain of		Ramesh Selvaraj
P4-16	2019 Multi-mycotoxin occurrence in Mediterranean poultry feed including emerging and masked mycotoxins		Verena Starkl
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