



Córdoba Spain | June 8-10, 2022

**June 8 to 10, 2022**

# Scientific program

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## ORAL PRESENTATIONS SESSIONS

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Córdoba Conference and Exhibition Centre

C. Torrijos, 10

14003 Córdoba (Spain)



ASOCIACIÓN  
ESPAÑOLA DE  
CIENCIA AVÍCOLA  
(AECA - WPSA)



UNIVERSIDAD  
DE  
CÓRDOBA

**Wed. 8<sup>th</sup> June 2022** *CÓRDOBA CONFERENCE AND EXHIBITION CENTRE*

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<b>10:00</b>	<b>13:30</b>		<b>YOUTH PROGRAM</b>	
			<b>Auditorio Embajadores</b>	
10:00	11:45	<b>W1-01</b>	<b>How to make a team</b> Achille Schiavone	
12:00	13:30	<b>W2-01</b>	<b>How does poultry defend itself from insults</b> Mamduh Sifri and Achille Schiavone	

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<b>15:00</b>	<b>16:00</b>		<b>PLENARY SESSION I- POULTRY ECONOMICS</b>	
			<b>Chair persons: Dr. Roel Mulder, Dr. Carlos Garcés-Narro</b>	
			<b>Auditorio Embajadores</b>	
15:00	15:30	<b>K1-01</b>	The Commodity Price Crisis - Threats and Opportunities	Joaquín Narro
15:30	16:00	<b>K1-02</b>	Development of egg production and consumption in low-income countries of Africa	Vincent Guyonnet

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

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<b>17:00</b>	<b>18:30</b>		<b>Poster Session I</b>	
			<b>Patio Medina Azahara</b>	



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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	<b>O2-01</b>	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	<b>O2-02</b>	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	<b>O2-03</b>	Assessing of Runs of Homozygosity in indigenous poultry breeds of the Veneto region	Filippo Cendron
17:40	17:50	<b>O2-04</b>	Genetic characterization of indigenous chicken breeds of Italian North-central region	Francesco Perini
17:50	18:00	<b>O2-05</b>	Data, big and small, the way to optimisation in animal production	África Fernández Gutiérrez
18:00	18:10	<b>O2-06</b>	Alternative sustainable broiler feed formulations with local ingredients and Black soldier fly larvae: what do stakeholders think in Turkey?	Özlem Karahan Uysal
18:10	18:20	<b>O2-07</b>	Local italian poultry breed for alternative farming systems development	Edoardo Fiorilla

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## ORAL PARALLEL SESSION III- QUALITY OF PRODUCTS

17:10 18:30

**Chair persons: Dr. Yves Nys, Mr. Jaime Sarabia**

Sala Julio Romero de Torres

17:10	17:20	<b>O3-01</b>	Turkey meat quality traits as affected by gender and muscle type	Massimiliano Petracci
17:20	17:30	<b>O3-02</b>	Effect of Electrical Stimulation, Deboning Time and Marination on Fresh and Frozen Broiler Meat Quality	Sher Ali Rajput
17:30	17:40	<b>O3-03</b>	Effects of including camelina cake in laying hens on physic-chemical and sensory egg quality	Alba Cerisuelo Garcia
17:40	17:50	<b>O3-04</b>	Effect of eggshell temperature on bone parameters of layers	Servet Yalçın
17:50	18:00	<b>O3-05</b>	Bone mineralization and bone quality in chickens	Alejandro Rodríguez-Navarro
18:00	18:10	<b>O3-06</b>	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	<b>O3-07</b>	Influence of management on Salmonella Infantis shedding and antibiotic resistance evolution during growing period: preliminary results	Laura Montoro Dasí
18:20	18:30	<b>O3-08</b>	Bacteriophage prevalence from poultry farms according to the productive orientation: preliminary results.	Sandra Sevilla Navarro
18:30	18:40	<b>O3-09</b>	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 Session and ceremony - Welcome cocktail**

Location: Caballerizas Reales de Córdoba

**Thu. 9<sup>th</sup> June 2022** *CÓRDOBA CONFERENCE AND EXHIBITION CENTRE*

<b>09:00</b>	<b>10:00</b>		<b>PLENARY SESSION III- POULTRY NUTRITION AND ALTERNATIVE FEED ADDITIVES</b>	
			<b>Chair persons: Dr. Ana C. Barroeta, Dr. Achille Schiavone</b> Auditorio Embajadores	
09:00	09:30	<b>K3-01</b>	The challenges of poultry nutrition in different productive systems	Gonzalo G. Mateos
09:30	10:00	<b>K3-02</b>	Feeding fibrous diluted diets to broiler breeder pullets.	Xavier Asensio Dávila
<b>10:00</b>	<b>10:30</b>		<b>PLENARY SESSION IV- POULTRY ENVIRONMENT AND MANAGEMENT</b>	
			<b>Chair persons: Mr. José M. Díez Gata</b> Auditorio Embajadores	
10:00	10:30	<b>K4-01</b>	World trends in poultry house environmental control	Michael Czarick
<b>10:30</b>	<b>11:00</b>		<b>Cofee Break</b>	Patio Medina Azahara
<b>11:00</b>	<b>13:30</b>		<b>POSTER SESSION II</b>	<b>Patio Medina Azahara</b>
<b>11:00</b>	<b>13:30</b>		<b>ORAL PARALLEL SESSION IV- POULTRY HEALTH</b>	
			<b>Chair persons: Dr. Evangelia Sossidou, Dr. Mar Biarnés</b> Sala Julio Romero de Torres	
11:00	11:10	<b>O4-01</b>	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	<b>O4-02</b>	Virucidal effect of a disinfectant based on quaternary ammonium compounds and glutaraldehyde against the avian influenza virus - 3 validation trials	Elien Claeys
11:20	11:30	<b>O4-03</b>	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	<b>O4-04</b>	Evolution of infectious bronchitis vaccine viruses reisolated from vaccinated broilers	Boudaoud Amine
11:40	11:50	<b>O4-05</b>	Protection against IBV challenge during the production period	Husam Bakri
11:50	12:00	<b>O4-06</b>	Infectious Bronchitis strains of new appearance in Spain during 2019-2021	Alberto Giner
12:00	12:10	<b>O4-07</b>	Update of IBV variants circulating in Spain in 2018-2022 period	José Luis Arnal Bernal

12:20	12:30	<b>O4-09</b>	Identification of a novel infectious bursal disease virus genotype circulating in Portugal	Matteo Legnardi
12:30	12:40	<b>O4-10</b>	Successful Gumboro disease prevention in French « Label Rouge » chickens	Christophe Cazaban
12:40	12:50	<b>O4-11</b>	Live vaccination for Turkey haemorrhagic enteritis proves effectiveness in control virus circulation and related disease	Caterina Lupini
12:50	13:00	<b>O4-12</b>	Study of Co-Infection of Chicken Infectious Anemia Virus with Fowl Adenovirus in Commercial Poultry	Muhammad Kashif Saleemi
13:00	13:10	<b>O4-13</b>	Pathogenicity of fowl adenoviruses serotype 11 isolated from chickens Associated with inclusion body hepatitis in Morocco	Samira Abghour
13:10	13:20	<b>O4-14</b>	Evaluation protection of ND vaccination regimes against early challenge with Velogenic Newcastle virus-VII.1	Wael Elfeil
13:20	13:30	<b>O4-15</b>	Combined use of two attenuated S. Enteritidis and S. Typhimurium vaccines to reduce excretion of challenge strains	Lourdes Sisquella Molla
11:00	13:30	<b>O4-16</b>	Strategies and practices to prevent keel bone damage in poultry industry	Evangelia Sossidou

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### 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** Casa Palacio Bandolero Restaurant

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

Chair persons: Dr. Růveyde 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**

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### 16:00 17:30 ROUND TABLE- POULTRY HEALTH

Cooperation among Mediterranean Neighboring countries in Managing diseases

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**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	<b>O5-01</b>	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	<b>O5-02</b>	Use of chestnut tannins in different broiler diets and its effect on performance and meat quality	Marta Lourenço
16:20	16:30	<b>O5-03</b>	Eugenol improves productive performance in broilers	José Antonio Moreno
16:30	16:40	<b>O5-04</b>	Exploration of Zingiber officinale effects on performance, immunity and gut morphology in broilers	Abdur Rahman
16:40	16:50	<b>O5-05</b>	Effects of dietary organic acids on performance, caecal microbiota and gut morphology in broilers	Abdur Rahman
16:50	17:00	<b>O5-06</b>	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	<b>O5-07</b>	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	<b>O5-08</b>	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	<b>O5-09</b>	The effects of supplementing monobutyryn on the performance and production efficiency of turkeys fed on a wheat, corn, soybean and rapeseed meal-based diet	Sabien Vermaut
17:30	17:40	<b>O5-10</b>	Effects of addition of Saccharomyces cerevisiae boulardii on multiple parameters on broiler health and productivity	Aleksandar Dodovski
17:40	17:50	<b>O5-11</b>	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	<b>O5-12</b>	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. 10<sup>th</sup> June 2022** *CÓRDOBA CONFERENCE AND EXHIBITION CENTRE*

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

<b>13:00</b>	<b>14:30</b>		<b>Lunch Break</b>	Casa Palacio Bandolero Rest:
<b>14:30</b>	<b>15:00</b>		<b>PLENARY SESSION VII- BROILER GENETICS and BREEDING: PAST and PRESENT</b>	
			<b>Chair person: Dr. Martino Cassandro</b>	
			Auditorio Embajadores	
14:30	15:00	<b>K7-01</b>	70 years of broiler breeding for rapid growth - achievements, negative consequences, and their genetic mitigation	Avigdor Cahaner
<b>15:00</b>	<b>15:30</b>		<b>PLENARY SESSION VIII- POULTRY HEALTH</b>	
			<b>Chair persons: Dr. Estela Prukner-Radovcic, Dr. Roser Dolz</b>	
			Auditorio Embajadores	
15:00	15:30	<b>K8-01</b>	Poultry production and health: Current and future challenges	Hafez M. Hafez
<b>15:30</b>	<b>17:30</b>		<b>ORAL PARALLEL SESSION VII- POULTRY HEALTH AND FOOD SECURITY</b>	
			<b>Chair persons: Dr. Estela Prukner-Radovcic, Dr. Roser Dolz</b>	
			Auditorio Embajadores	
15:30	15:40	<b>O7-01</b>	Foot-pad dermatitis: Potential parameter for poultry welfare	Omar Bennoune
15:40	15:50	<b>O7-02</b>	Astragaloside-IV inhibit tibial dyschondroplasia on vascular endothelial cell based PI3K/Akt/HIF-1 $\alpha$ signaling	Khalid Mehmood
15:50	16:00	<b>O7-03</b>	Modulation of suppression of HIF1 $\alpha$ /VEGF/VEGFR signaling pathway by Geldanamycin in avian tibial dyschondroplasia	Muhammad Shahzad
16:00	16:10	<b>O7-04</b>	Peritoneal washings in poultry: limitations and proposed solution	Ferhat Nouicer
16:10	16:20	<b>O7-05</b>	Synergistic effect of experimentally induced aflatoxin B1 and Ochratoxin A on performance, immunity, livability and serum biochemistry in broiler chickens	T Tamilmani
16:20	16:30	<b>O7-06</b>	Immunopathological effects of concurrent feeding of ochratoxins and sea buckthorn in commercial broilers	Muhammad Kashif Saleemi
16:30	16:40	<b>O7-07</b>	Salmonella control in broiler production by microencapsulated bacteriophages feed added	Laura Lorenzo-Rebenaque
16:40	16:50	<b>O7-08</b>	Antibacterial activity of silver nanoparticles against Clostridium perfringens infection in broilers	Mohamed Shaalan
16:50	17:00	<b>O7-09</b>	Stakeholders' perceptions about the antimicrobial use practices and antimicrobial resistance issues in the Italian	Caetano Luiz Beber



17:00	17:10	<b>O7-10</b>	Safety of a modified live Escherichia coli vaccine, when administered to chickens during lay	Tura Bru Ras
17:10	17:20	<b>O7-11</b>	Concomitant monitoring of Clostridium perfringens and Eimeria species in fecal samples of conventional and slow-growing broiler flocks by multiplex qPCR	Emeka Ignatius Igwe

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## ORAL PARALLEL SESSION VIII- ENVIRONMENT AND MANAGEMENT

**15:30 17:30**

**Chair persons: Dr. Servet Yalçın, Dr. Alba Cerisuelo**

**Sala Julio Romero de Torres**

15:30	15:40	<b>O8-01</b>	Plasma and muscle metabolomics profiling of modern broiler chickens exposed to chronic heat stress	Marco Zampiga
15:40	15:50	<b>O8-02</b>	Thermal stress in day-old chicks: risk factors and effects on mortality	Marta Yerpés Ron
16:10	16:20	<b>O8-05</b>	Best Practice Hens: tools and strategies to support egg production during transition to non-cage egg production systems in the EU	Inma Estevez
16:20	16:30	<b>O8-06</b>	Animal welfare assessment: quantifying differences among commercial medium and fast growth broiler flocks	Xavier Averós
16:30	16:40	<b>O8-07</b>	Effect of peat and wood shaving bedding on the NH <sub>3</sub> level during the broiler fattening period.	Liga Paura
16:40	16:50	<b>O8-08</b>	Behaviour of Romagnola geese reared in different agroforestry systems	Alice Cartoni Mancinelli
16:50	17:00	<b>O8-09</b>	Comparative effect of light emitting diode versus traditional light sources on performance, slaughter characteristics, immunity and gland's weight of broiler.	Asad Aslam Khan
17:00	17:10	<b>O8-10</b>	Characterization of feed and litter for the estimation of metals contamination in the air of broiler houses	Roheela Yasmeen
17:10	17:20	<b>O8-11</b>	Endocrinological gender identification in the hatching egg as solution to end chick culling.	Ana E. Blanco García

**17:30 18:00**

**Closing Session and Ceremony**

**Auditorio Embajadores**





Córdoba Spain | June 8-10, 2022

**June 8 to 10, 2022**

# Scientific program

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## DIGITAL POSTERS SESSIONS

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Córdoba Conference and Exhibition Centre

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14003 Córdoba (Spain)



ASOCIACIÓN  
ESPAÑOLA DE  
CIENCIA AVÍCOLA  
(AECA - WPSA)



UNIVERSIDAD  
DE  
CÓRDOBA

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

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17:00 18:30

### POSTER SESSION 1: NUTRITION AND EDUCATION

<b>P1-02</b>	A nutritional perspective regarding the productive performances of the broiler chicken	Voicu Sorina Nicoleta
<b>P1-03</b>	Effects of different dietary energy and protein levels on the production performance and carcass characteristics of native hilly chicken during growing	Halima Khatun Khatun
<b>P1-04</b>	Effects of a short-term fasting period challenge to young broiler chickens on splenic immune gene expression.	David Menoyo
<b>P1-05</b>	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
<b>P1-06</b>	Environmental impact of laying hen feeds using low impact alternative ingredients and insect inclusion	Ana Montalbán Pérez
<b>P1-07</b>	Solid-state fermentation improves the nutrient composition of lupin flour for inclusion in broiler diets	Oladapo Olukomaiya
<b>P1-08</b>	Investigation of the in vitro antimicrobial activity of phytogetic feed additives against common poultry pathogens	Vasileios Tsiouris
<b>P1-09</b>	In vitro investigation of commercial poultry acidifiers against potential poultry pathogens	Vasileios Tsiouris
<b>P1-10</b>	Efficacy of an attenuated coccidiosis vaccine in combination with different additives on production performance and intestinal lesions in broilers	Luis Pantoja Millas
<b>P1-11</b>	The effects of some antioxidant feed additives on digestive enzymes activity in Tetra-SL laying hens	Popescu Roua Gabriela
<b>P1-12</b>	The use of Xylanase in laying hen production: can it also modulate the microbiome?	Veerle V Van Hoeck
<b>P1-14</b>	Investigating the combined effect of medium-chain fatty acids and phytogetic extracts on broiler growth efficiency	David Hermans



<b>P2-01</b>	Muscovy duck fed black soldier fly larvae meal: effects on blood parameters and antioxidant status	Marta Gariglio
<b>P2-02</b>	Blood chemistry of medium-growing male and female chickens supplemented black soldier fly live larvae	Valentina Bongiorno
<b>P2-03</b>	Growth performance and jejunal cytokine expression in broiler chickens fed graded levels of Sea-Buckthorn ( <i>Hippophaes rhamnoides</i> ) berries	Vasil Pirgozliev
<b>P2-04</b>	Feeding black pepper ( <i>Piper nigrum</i> L) and xylanase to broiler chickens	Vasil Pirgozliev
<b>P2-05</b>	Influence of dietary fat source on biochemical blood profile in laying hens	Maria Palomar
<b>P2-06</b>	Effect of free fatty acid content and degree of fat saturation on bone calcium reserves and eggshell quality	Maria Palomar
<b>P2-07</b>	Combination of palm fatty acid distillate with soybean oil in broiler chicken diets: fat digestibility along the gastrointestinal tract	Beatriz Jimenez Moya
<b>P2-08</b>	Effect of a new 3-phytase on egg production and quality and bone mineralisation traits in laying hens	Mehran Javadi
<b>P2-09</b>	Validation of the nutritional matrix of a multienzyme complex through performance and digestibility improvement	David Gonzalez Sanchez
<b>P2-10</b>	Effects of lysolecithin supplementation on ileal digestibility of energy, fatty acids, and amino acids in broilers	David Gonzalez Sanchez
<b>P2-11</b>	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
<b>P2-12</b>	Influence of lysophospholipid content and metabolizable energy level in laying hen diets on performance and egg quality	Araceli Orozco Mas
<b>P2-13</b>	Influence of different concentrations of artificial pigments on the egg yolk color and content of carotenoids	Zlatko Janjecic
<b>P2-14</b>	Effect of yeast cell wall supplementation on broiler chickens performances under chronic heat stress	Vanessa Demey
<b>P2-15</b>	The effect of in-ovo exposition to ethanol upon osteogenesis of the chicken embryo	Khenenou Tarek
<b>P2-16</b>	Morpho- histological study of the spleen of broiler chickens during post-hatching age	Khenenou Tarek
<b>P2-17</b>	External and internal characteristics of eggs of different varieties of Utrerana avian breed compared to commercial laying lineages	Antonio González Ariza
<b>P2-18</b>	Preliminary results of reproductive traits of the Andalusian turkey	Antonio González Ariza
<b>P2-19</b>	Genome-wide scan for selection signatures in Italian local chicken breeds	Francesco Perini
<b>P2-20</b>	The origin of the domestic turkey and early distribution in Europe	José Ignacio Salgado Pardo
<b>P2-21</b>	Effects of an Allium derivate on productive parameters in turkey farms.	María Arántzazu Aguinaga Casañas
<b>P2-22</b>	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*

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16:00 18:00

### POSTER SESSION 3: HOUSING, MANAGEMENT AND QUALITY OF PRODUCTS

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

**Fri. 10 June 2022**

**CÓRDOBA CONFERENCE AND EXHIBITION CENTRE**

**11:00 13:00**

**POSTER SESSION 4: POULTRY HEALTH**

<b>P4-01</b>	Detection of antibodies against hemorrhagic enteritis of turkeys in serum samples collected on farms in Ecuador.	Marco Cisneros
<b>P4-02</b>	Evaluation efficacy of MEFLUVAC-H5 against early challenge by HPAI-H5N1	Wael Elfeil
<b>P4-03</b>	Marek's disease in free-range poultry: gross pathology and histopathological investigations	Khaled Kaboudi
<b>P4-04</b>	A Novel recombinant Herpes virus of turkey expressing F- gene of Newcastle disease (rHVT-F) reduces velogenic genotype VII Newcastle disease virus	Ahmed Setta
<b>P4-05</b>	Safety of an immune complex vaccine against infectious bursal disease when applied subcutaneously in slow-growing broiler type chickens under field	Marta Busquet-Sol
<b>P4-06</b>	Findings of reassortant IBDV strains of genogroup A3B1 in commercial broiler flocks in Germany	jaime sarabia
<b>P4-07</b>	Comparison between an immune complex and an r-HVT vaccination program for IBD in one rearing layers farm in Italy.	Jaime Sarabia
<b>P4-08</b>	Monitoring of a Salmonella live-attenuated vaccine excretion during the rearing and laying periods in broiler breeders.	Jaime Sarabia
<b>P4-09</b>	Assessment of the blue dye in the Salmonella vaccine concentration	Jaime Sarabia
<b>P4-10</b>	Safety and efficacy of an attenuated Salmonella Enteritidis vaccine applied during laying period in commercial hens	Lourdes Sisquella Mollà
<b>P4-12</b>	Antimicrobial resistance from 2019 to 2021 in Escherichia coli strains from poultry	Verónica Cortés
<b>P4-14</b>	Antimicrobial resistance characterization from Campylobacter strains isolated from poultry breeders and their progeny in Eastern Spain	Ana Jiménez
<b>P4-15</b>	In vitro characterization and immunogenicity of chitosan nanoparticles loaded with native and inactivated extracellular proteins from a field strain of	Ramesh Selvaraj
<b>P4-16</b>	2019 Multi-mycotoxin occurrence in Mediterranean poultry feed including emerging and masked mycotoxins	Verena Starkl
<b>P4-17</b>	In vitro anticoccidial effects of an organosulfur compound derived from Allium extract.	María Arántzazu Aguinaga Casañas
<b>P4-18</b>	Relation between range use and parasitic infection in Italian organic laying hens	Valentina Ferrante
<b>P4-19</b>	Study of the frequency of application of Fluralaner against the poultry red mites in Spain.	Cori Escoda
<b>P4-20</b>	Effect of total flavonoids of rhizoma drynariae in thiram-induced cytotoxicity of chondrocytes	Wangyuan Yao
<b>P4-21</b>	An overview tibial dyschondroplasia in broilers, molecular pathways and treatment options	Jiakui Li
<b>P4-22</b>	Netpoulsafe project: improving biosecurity compliance in the European poultry chain.	Aitor Devesa
<b>P4-23</b>	A Post-Mortem Case Study: Gross pathological /Necropsy investigation of internal laying in Peahens.	Asad Aslam Khan



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