



13TH
WORLD
RABBIT
CONGRESS
2 - 4 OCTOBER 2024
TARRAGONA / SPAIN
PROGRAM

ORGANIZED BY





INDEX

WELCOME	4
COMMITTEES	6
PROGRAM OVERVIEW	8
GENERAL INFORMATION	12
SOCIAL PROGRAM	15
VENUE FLOORPLAN	17
FULL PROGRAMME	
WEDNESDAY, OCTOBER 2nd	21
THURSDAY, OCTOBER 3rd	33
FRIDAY, OCTOBER 4th	40
EXHIBITION	48
SPONSORS	49

WELCOME LETTER

Dear colleagues,

We are pleased to welcome you to the **13th World Rabbit Congress** taking place on **2-4 October 2024**, in **Tarragona, Spain**.

The Spanish Association of Cuniculture (ASESCU) and the Institute of Agrifood Research and Technology (IRTA) organize the event. It is a great opportunity to bring together scientific and industry professionals to share the latest developments in the main areas of rabbit production, including nutrition and feeding, pathology and hygiene, ethology and welfare, breeding and genetics, reproduction, farming systems and economy, quality of products, and biology and physiology.

Thank you for joining us at the congress in Tarragona, a fascinating and beautiful city with a rich history and culture that is well worth a visit for anyone interested in Roman history or Mediterranean culture.

Yours faithfully,

Organizing Committee



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PROGRAM OVERVIEW

Wednesday, October 2nd

TIME/ROOM	August	Eutyches	Genius	Poster Area
9:00-9:30	OPENING CEREMONY 			
9:30-10:00	PLENARY TALK 1: PATHOLOGY  STUDY ON NOVEL VACCINES AND ADJUVANTS FOR RABBIT INFECTIOUS DISEASES Yee Huang, China			
10:00-11:00	O1-NF1 ORAL SESSION 1: Nutrition & Feeding 1	O2-PH1 ORAL SESSION 2: Pathology & Hygiene 1	O3-BG1 ORAL SESSION 3: Breeding & Genetic 1	
11:00-11:30	COFFEE BREAK			
11:30-12:00	PLENARY TALK 2: NUTRITION  ALTERNATIVE METHODS IN RABBIT NUTRITION TRIALS María Cambra & Nuria Nicodemus, Spain			
12:00-13:00	O4-NF2 ORAL SESSION 4: Nutrition & Feeding 2	O5-PH2 ORAL SESSION 5: Pathology & Hygiene 2	O6-FE1 ORAL SESSION 6: Farming system & Economy 1	
13:00-13:30	PLENARY TALK 3: FARMING  DESCRIPTIVE ANALYSIS OF THE ENVIRONMENTAL IMPACT OF INTENSIVE RABBIT PRODUCTION Davi Savietto, France			
13:30-15:00	LUNCH BREAK			
15:00-16:30	ROUND TABLE GENETICS  New direction in rabbit breeding			Guided POSTER 1 NF1: Nutrition; PH1: Pathology; EW1: Welfare/Farming
16:30-18:00	ROUND TABLE PATHOLOGY  STRATEGIES FOR THE REDUCTION OF ANTIMICROBIALS CONSUMPTION IN RABBIT			Guided POSTER 2 R1: Reproduction; BG1: Genetics; Q1: Quality
18:00-18:30	WELCOME RECEPTION			
18:45	CITY TOUR Organized by the Major of Tarragona			

Thursday, October 3rd

TIME/ROOM	August	Eutyches	Genius
9:00-9:30	PLENARY TALK 4: WELFARE MEASURING ON FARM WELFARE IN RABBITS: A REVIEW WITH EMPHASIS ON ANIMAL BASED INDICATORS Angela Trocino, Italy		
9:30-10:30	O7-BP1 ORAL SESSION 7: Biology & Physiology 1	O8-Q1 ORAL SESSION 8: Quality & Products 1	O9-BG2 ORAL SESSION 9: Breeding & Genetic 2
10:30-11:00	COFFEE BREAK		
11:00-11:30	PLENARY TALK 5: REPRODUCTION EXPLORING RABBIT SEMEN CRYOPRESERVATION AND THE CRUCIAL ROLE OF CRYOBANK: UNVEILING ADVANTAGES AND PROMISING PERSPECTIVES Nicolaia Iaffaldano, Italy.		
11:30-12:30	O10-NF3 ORAL SESSION 10: Nutrition & Feeding 3	O11-PH3 ORAL SESSION 11: Pathology & Hygiene 3	O12-BG3 ORAL SESSION 12: Breeding & Genetic 3
12:30-13:00	PLENARY TALK 6: QUALITY RABBIT MEAT QUALITY WITH AN APPROACH TO ITS PROCESSING WITH THE USE OF SPICES OR SPECIFIC INGREDIENTS AS ANTIOXIDANTS Simone Mancini, Italy.		
13:00-14:30	LUNCH BREAK		
14:30-16:00	ROUND TABLE WELFARE End of the cage: actual status of possibilities of alternative housing		
16:00-17:00	O13-NF4 ORAL SESSION 13: Nutrition & Feeding 4	O14-EW1 ORAL SESSION 14: Ethology & Welfare 1	O15-R1 ORAL SESSION 15: Reproduction 1
17:00-17:30	COFFE BREAK		
17:30-18:30	ROUND TABLE ECONOMY Specific needs for the sustainability of rabbit production around the world		
18:30-19:00			WRSA General Meeting
19:00-20:00			
20:30	Transport to Gala Dinner L'Orangerie Gala Dinner & Orchestra		

Friday, October 4th

TIME/ROOM	August	Eutyches	Genius	Poster Area
9:30-10:00	PLENARY TALK 7: BIOLOGY  CORE GUT MICROBIOTA IN RABBIT: OPPORTUNITIES TO STRENGTHEN THE INTESTINAL BARRIER Sylvie Combes, France.			
10:00-11:00	O16-NF5 ORAL SESSION 16: Nutrition & Feeding 5	O17-R2 ORAL SESSION 17: Reproduction 2	O18-FE2 ORAL SESSION 18: Farming system & Economy 2	
11:00-11:30	COFFEE BREAK			
11:30-12:00	PLENARY TALK 8: GENETCICS  ENHANCING THE SUSTAINABILITY OF RABBIT PRODUCTION FROM THE PERSPECTIVE OF ANIMAL GENETICS Juan Pablo Sanchez Serrano, Spain			
12:00-13:00	O19-BP2 ORAL SESSION 19: Biology & Physiology 2	O20-PH4 ORAL SESSION 20: Pathology & Hygiene 4	O21-BG4 ORAL SESSION 21: Breeding & Genetic 4	
13:00-13:30	PLENARY TALK 9: MISCELLANEOUS  CHALLENGES AND OPPORTUNITIES FOR THE APPLICATIONS OF PRECISION LIVESTOCK FAMING IN THE RABBIT PRODUCTION SECTOR Tomas Norton, Belgium			
13:30 - 15:00	LUNCH BREAK			
15:00-16:00	O22-Q2 ORAL SESSION 22: Quality & Products 2	O23-EW2 ORAL SESSION 23: Ethology & Welfare 2	O24-R3FE3 ORAL SESSION 24: Reproduction 3 and Farming system & Economy 3	Guided POSTER 3 NF2: Nutrition; PH2: Pathology, BG2: Genetic
16:00-16:30				
16:30-17:30	AWARDS AND CLOSING CEREMONY			

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GENERAL INFORMATION

WEBSITE

<https://www.wrc2024.com>

VENUE

Tarragona Exhibition and Congress Center

Address: Carrer Arquitecte Rovira, 2, 43001 Tarragona
Entrance through door A.



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General E-mail:

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Registration E-mail:

reg-wrc2024@pacifico-meetings.com

BADGES

Upon arrival at the venue, please go to the registration desk to get your printed badge and lanyard. This must be worn during the Congress to gain entry to the congress sessions, coffee and lunch breaks or any social activity of the congress.

Lunches and Coffee Breaks are available in the exhibition hall.

CLOAKROOM

A cloakroom located next to the registration area will be available during the Conference.

REGISTRATION DESK OPENING HOURS

- Tuesday, October 1st: 15:00 – 19:30
- Wednesday, October 2nd: 08:00 – 19:00
- Thursday, October 3rd: 08:00 – 20:00
- Friday, October 4th: 08:30 – 17:30

INFORMATION FOR SPEAKERS

Bring your presentations to the Speakers Preview Room at the venue (Tarraco Room – Level 0. Next to August Auditorium.).

A technician will help you to upload your presentation at least 2 hours before your session starts, or the day before your session starts, if possible.

Please bring your presentation in USB stick.

SPEAKERS PREVIEW ROOM

Tarraco Room – Level 0. Next to August Auditorium.

- Wednesday, October 2nd: 08:00 – 18:00
- Thursday, October 3rd: 08:00 – 19:00
- Friday, October 4th: 08:30 – 17:30

WIFI



Access the network:

WIFI PALAU

Log-in with the credentials:

User: WRC2024

Password: Tarragona

APP

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SOCIAL PROGRAM

WELCOME RECEPTION

Date: Wednesday, October 2nd

Time: 18:00

Place: Exhibition Area, Congress Venue

**Ticket included in the congress registration fee.*

TARRAGONA WALKING TOUR

Date: Wednesday, October 2nd

Time: 18:45

Duration: 2 hours approximately

Meeting point: Congress Venue

**Ticket included in the congress registration fee with previous confirmation through the registration form. Limited spaces available.*

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GALA DINNER

Date: Thursday, October 3rd

Time: 21:00*

Place: L'Orangerie de Clos Barenys.

Address: [Camí vell de Cambrils, 180, 43480 Vila-seca, Tarragona](#)

**Buses will depart at 20:30h from the Congress Venue and return from 23:30hs.*

*** Tickets available for purchase on the online registration form until September 26th.*



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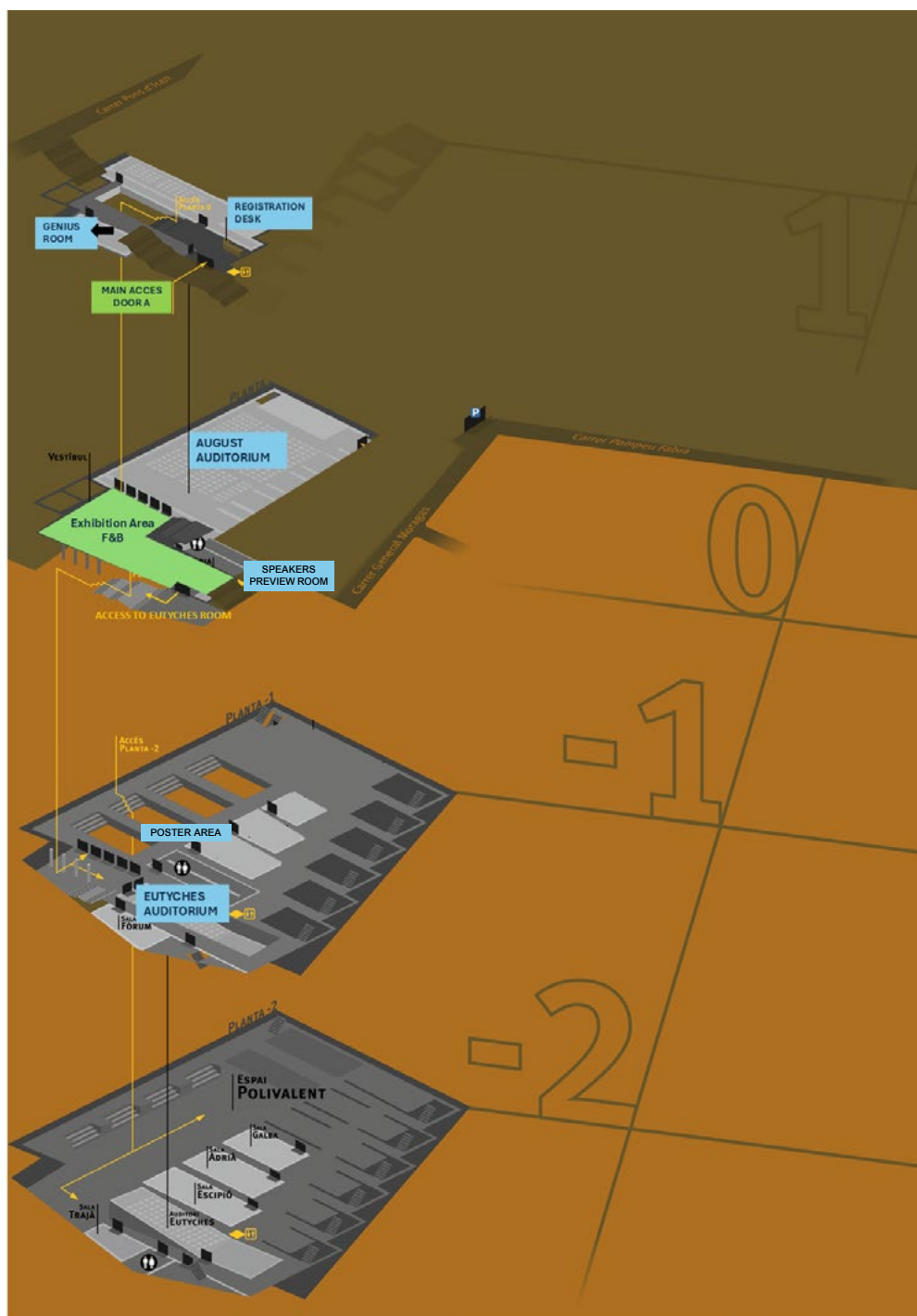
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VENUE FLOOR PLAN



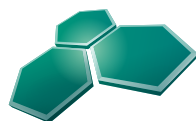
LEVEL 1	LEVEL 0	LEVEL -1
GENIUS ROOM REGISTRATION DESK EXIT	AUGUST AUDITORIUM EXHIBITION AREA SPEAKERS PREVIEW ROOM	EUTYCHES AUDITORIUM POSTER AREA

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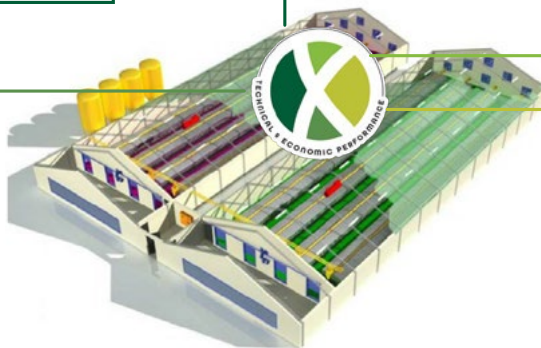
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FULL PROGRAM

WEDNESDAY, OCTOBER 2ND09:00 – 09:30
AUGUST AUDITORIUMOPENING CEREMONY

Mariam Pascual. Manager of 13th WRC. Institut de Recerca i Tecnologies Agroalimentàries (IRTA), Barcelona, Spain.

Juan José Pascual. President of the World Rabbit Science Association (WRSA) & Asociación Española de Cunicultura (ASESCU), Valencia, Spain.

Jordi García Mas. Scientific Director of the Institute of Agrifood Research and Technology (IRTA).

Montserrat Adan Domènech. First deputy mayor. Councillor for Tourism, Economic Promotion and Trade, Tarragona, Spain.

Elisenda Guillaumes. General Director of Agriculture and Livestock at the Generalitat of Catalunya.

09:30 – 10:00
AUGUST AUDITORIUMPLENARY TALK 1: PATHOLOGY

Chair: Antonio Lavazza. Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia-Romagna (IZSLER), Brescia, Italy.

• STUDY ON NOVEL VACCINES AND ADJUVANTS FOR RABBIT INFECTIOUS DISEASES

Speaker: Yee Huang. Institute of Animal Husbandry and Veterinary Sciences, Hangzhou, China.

10:00 – 10:30
AUGUST AUDITORIUM

O1-NF1

ORAL SESSION 01: NUTRITION & FEEDING 1

Chair: Gerolamo Xiccato. University of Padova, Padova, Italy.

Co-chair: Pablo Marin García. Universidad CEU Cardenal Herrera, Spain.

O1-NF1-02

EFFECTS OF DIGESTIBLE ENERGY SOURCES AND LEVELS IN DIETS ON REPRODUCTIVE PERFORMANCE OF NEW ZEALAND WHITE CROSSBRED RABBITS

Nhung Pham Thi Cam. Chulalongkorn University, Bangkok, Thailand.

O1-NF1-03

EFFECT OF ARGININE, ISOLEUCINE AND VALINE FEED SUPPLEMENTATION ON RABBIT DOES PERFORMANCE AND THEIR LITTERS.

Laure Bignon. CCPA group, Janze, France.

O1-NF1-04

EFFECTS OF PROBIOTICS ON PLASMA BIOCHEMICAL, IMMUNE AND ANTIOXIDANT PROPERTIES AND FECAL MICROORGANISMS OF PREGNANT REX RABBITS

Bing Song. Northwest A&F University, Yangling, China.

10:00 – 10:30

EUTYCHES AUDITORIUM

O2-PH1

ORAL SESSION 02: PATHOLOGY & HYGIENE 1

Chair: *Antonio Lavazza. Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia-Romagna (IZSLER), Brescia, Italy.*

O2-PH1-01

WHY ARE SOME RABBIT FARMS REGULARLY AFFECTED WITH RABBIT HEMORRHAGIC DISEASE? AN EPIDEMIOLOGICAL SURVEY IN FRANCE

Adeline Huneau-Salaun. ANSES, Ploufragan, France.

O2-PH1-02

OCCURRENCE AND CHARACTERIZATION OF RABBIT CALICIVIRUS (RCV) STRAINS IN ITALY OVER 20 YEARS

Patrizia Cavadini. Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna, Brescia, Italy.

O2-PH1-03

PASSIVE PROTECTION FROM RHD: THE ROLE OF IMMUNOGLOBULINS IN MILK

Vittoria Di Giovanni. Istituto Zooprofilattico della Lombardia e dell'Emilia Romagna, Brescia, Italy.

O2-PH1-04

PRIMARY INSIGHTS INTO THE POTENTIAL MOLECULAR BIOMARKERS RELATED TO INNATE IMMUNITY IN LAGOVIRUS EUROPAEUS INFECTION.

Paulina Niedźwiedzka-Rystwej. University of Szczecin, Szczecin, Poland.

O2-PH1-05

ROLE OF FLIES IN THE TRANSMISSION OF RHDV2: A STUDY OF CONTAMINATION IN LUCILIA SERICATA (DIPTERA: CALLIPHORIDAE)

Vittoria Di Giovanni. Istituto Zooprofilattico Sperimentale Lombardia e Emilia Romagna, Brescia, Italy.

10:00 – 10:30

GENIUS ROOM

O3-BG1

ORAL SESSION 03: BREEDING & GENETIC 1

Chair: *Miriam Piles Rovira. IRTA, Spain.*

O3-BG1-01

GENETIC PARAMETERS FOR HEALTH AND PRODUCTION TRAITS IN THE GGP OPTIMA RABBIT LINE

Hervé Garreau. INRAE, Castanet-Tolosan, France.

O3-BG1-02

INFLUENCE OF GENETIC DIVERSITY AT INDIVIDUAL AND GROUP LEVEL ON THE HEALTH OF GROWING RABBITS

Mélanie Gunia. INRAE, Castanet-Tolosan, France.

O3-BG1-04

EFFECT OF HEAT SHOCK PROTEIN (HSP) PRODUCTION ON GROWTH AND REPRODUCTIVE PERFORMANCE OF Hyla RABBIT IN SOUTH-WESTERN NIGERIA

Temitope Akilapa Peter. Osun State College of Education, ILA-ORANGUN, Nigeria.

O3-BG1-05

RELATIONSHIP BETWEEN PROLIFICACY AT FIRST BIRTH AND PERFORMANCES THROUGHOUT THE CAREER OF RABBIT DOES

Pamela Vastel. TECHNA France Nutrition, Couëron, France.

11:00 – 11:30
Exhibition Area

COFFEE BREAK

11:30 – 12:00
AUGUST AUDITORIUM

PLENARY TALK 2: NUTRITION

Chair: *Gerolamo Xiccato. University of Padova, Padova, Italy.*

Co-chair: *Pablo Marin García. Universidad CEU Cardenal Herrera, Spain.*

• **ALTERNATIVE METHODS IN RABBIT NUTRITION TRIALS**

Speakers:

María Cambra López. Universitat Politècnica de Valencia, Valencia, Spain.

Nuria Nicodemus. Universidad Politécnica de Madrid, Madrid, Spain.

12:00 – 13:00
AUGUST AUDITORIUM

O4-NF2

ORAL SESSION 04: NUTRITION & FEEDING 2

Chair: *Thierry Gidenne. INRAE Occitanie-Toulouse, Toulouse, France.*

Co-chair: *Javier García. Universidad Politécnica de Madrid, Madrid, Spain.*

O4-NF2-03

EFFECT OF CHLOROGENIC ACID ON ILEAL MORPHOLOGY AND PERMEABILITY OF WEANED RABBITS

Jiali Chen. Shandong Agricultural University, Department of Animal Science and Technology, Taian, China.

O4-NF2-04

EFFECT OF SAMPLING HOUR, FEED MANAGEMENT AND SOLUBLE FIBRE LEVEL ON DUODENAL, JEJUNAL AND ILEAL DIGESTIBILITY IN GROWING RABBITS

Javier García. Universidad Politécnica de Madrid, Madrid, Spain.

O4-NF2-05

EFFECT OF SOURCE OF SOLUBLE FIBRE AND PARTICLE SIZE ON ILEAL AND CAECAL IN VITRO GAS PRODUCTION IN RABBITS

Javier García. Universidad Politécnica de Madrid, Madrid, Spain.

12:00 – 13:00

EUTYCHES AUDITORIUM

O5-PH2

ORAL SESSION 05: PATHOLOGY & HYGIENE 2

Chair: *Antonio Lavazza. Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia-Romagna (IZSLER), Brescia, Italy.*

O5-PH2-01

MUCOID ENTEROPATHY IN FARMED RABBIT DOES

Joan Maria Rosell Pujol. Cunivet Service, Tarragona, Spain.

O5-PH2-02

RABBIT CORONAVIRUS (RBCOV) AND LAPINE BOCAPARVOVIRUS (LBOV): TWO NOVEL VIRAL ENTERITIS AGENTS UNDER INVESTIGATION IN SPAIN

José Luis Arnal Bernal. Exopol, Zaragoza, Spain.

O5-PH2-03

WHAT'S IN THE FIELD? DESCRIPTION OF SOME ITALIAN MYXOMA VIRUSES AND IN-DEPTH MOLECULAR CHARACTERIZATION OF THE "BORGI" VACCINE STRAIN

Elisa Rossini. Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna "Bruno Umbertini", Brescia, Italy.

O5-PH2-04

SEEKING CORRELATES OF PROTECTIVE IMMUNITY FOLLOWING VACCINATION AGAINST MYXOMATOSIS.

Inés Calonge Sanz. Instituto Universitario de Biotecnología de Asturias, Universidad de Oviedo, Oviedo, Spain.

O5-PH2-05

SURVEY ON VACCINATION PRACTICES IN RABBIT BREEDING IN FRANCE

Boucher Samuel. LABOVET CONSEIL, Les Herbiers, France.

12:00 – 13:00

GENIUS ROOM

O6-FE1

ORAL SESSION 06: FARMING SYSTEM & ECONOMY 1

Chair: *Laping Wu. China Agricultural University, Beijing, China.*

O6-FE1-01

EFFECTS OF GROUP SIZE ON PERFORMANCE AND ENERGY BALANCE OF RABBIT DOES KEPT IN A PART-TIME GROUP HOUSING SYSTEM WITH DIFFERENT LITTER SIZE

Gerolamo Xiccato. University of Padova, Department DAFNAE, Legnaro, Padova, Italy.

O6-FE1-02

CONSUMPTION OF RABBIT MEAT IN URBAN CHINA: A STATISTICAL ANALYSIS

Yongyang Wu. China Agricultural University, Beijing, China.

O6-FE1-03

ECONOMIC EVALUATION OF USE OF *STYLOSANTHES GUIANENSIS* CV CIAT 184 HAY IN GROWING RABBIT FEED

Kouadio Kouakou Serge. National Polytechnic Institute Félix Houphouët-Boigny, Yamoussoukro, Ivory Coast.

O6-FE1-04

RABBIT RESEARCH TRENDS IN AFRICA: LESSONS AND IMPLICATIONS FOR FUTURE RESEARCH DIRECTIONS

Hameed Bashiru. Obafemi Awolowo University, Ile-Ife, Nigeria.

13:00 – 13:30

AUGUST AUDITORIUM

PLENARY TALK 3: FARMING

Chair: Laping Wu . China Agricultural University, Beijing, China.

• **DESCRIPTIVE ANALYSIS OF THE ENVIRONMENTAL IMPACT OF INTENSIVE RABBIT PRODUCTION**

Speaker: Davi Savietto. French National Research Institute for Agriculture, Food and Environment INRAE, Toulouse, France.

13:30 – 15:00

Exhibition Area

LUNCH BREAK

15:00 – 16:30

AUGUST AUDITORIUM

ROUND TABLE: GENETICS

• **NEW DIRECTION IN RABBIT BREEDING**

Chair: Agustín Blasco. Universitat Politècnica de Valencia, Valencia, Spain.

Speakers:

Mélanie Gunia. INRA, France.

Miriam Piles. IRTA, Spain.

Marina Martínez. Universitat Politècnica de València, Spain.

Xinzhong Fan. Shandong Agricultural University, China.

15:00 – 16:30

POSTER AREA

GUIDED POSTER 1

NF1: NUTRITION

Chair: Pablo Marín García. Universidad CEU Cardenal Herrera, Spain.

Co-chair: Francesco Bordignon. University of Padova, Legnaro (PD), Italy.

P1-NF1-02

ELECTRONIC FEEDER TO RECORD INDIVIDUAL FEED INTAKE OF RABBITS RAISED IN COLLECTIVE PEN

Julien Ruesche. Centre INRAE Occitanie, Toulouse, France.

P1-NF1-03

EVALUATION OF MILK PRODUCTION USING 2 METHODS.

Emeline Guene-Grand. ADM, Chierry, France.

P1-NF1-04

EXTRACTED SUNFLOWER, FATTENING RABBIT, FEEDING, FEED CONVERSION RATIO

Tamás Atkári. Olivia Ltd, Lajosmizse, Hungary.

P1-NF1-05

EFFECTS OF DIETARY METABOLIZABLE ENERGY LEVELS ON CROSSBRED RABBIT SEMEN CHARACTERISTICS IN MEKONG DELTA, VIETNAM

Nhung Pham Thi Cam. Dep. Of Physiology, Chulalongkorn University, Pathumwan, Bangkok, Thailand.

P1-NF1-06

BIODIVERSITY AND NUTRITIONAL QUALITY OF PLANT RESOURCES FOR TRADITIONAL RABBIT FEEDING IN KABYLIA, ALGERIA

Si Ammar Kadi. Mouloud MAMMERI university, Tizi-Ouzou, Algeria.

P1-NF1-07

EFFECTS OF THE REPLACEMENT LEVELS OF PELLET BY IPOMOEA AQUATICA IN THE DIETS ON GROWTH PERFORMANCE AND CARCASS CHARACTERISTICS OF GROWING RABBITS

Nhung Pham Thi Cam. Dep. Of Physiology, Chulalongkorn University, Pathumwan, Bangkok, Thailand.

P1-NF1-08

CHEMICAL COMPOSITION STABILITY OF RABBIT FEED IN THE ALGERIAN MARKET

Si Ammar Kadi. Mouloud MAMMERI university, Tizi-Ouzou, Algeria.

P1-NF1-09

A SYSTEMATIC REVIEW AND META-ANALYSIS OF EVALUATING THE GROWTH RESPONSE OF GROWING RABBITS FED DIETS CONTAINING MORINGA OLEIFERA LEAF MEAL

Freddy Manyeula. Botswana University of Agriculture and Natural resources, Gaborone, Botswana.

P1-NF1-11

UTILISATION OF BOVINE RUMEN FILTRATE FOR BIODEGRADATION OF SWEET ORANGE PEEL (CITRUS SINENSIS) AND EFFECT ON RABBIT GROWTH

Oluwabiye Oluremi. The National University of Lesotho, Maseru, Lesotho.

PH1: PATHOLOGY

Chair: *Antonio Lavazza. Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia-Romagna (IZSLER), Brescia, Italy.*

P1-PH1-01

GENETIC VARIABILITY AND PHYLOGENETIC ANALYSIS OF RABBIT HEMORRHAGIC DISEASE VIRUS (RHDV) IN CHINA FROM 2020 TO 2022

Fang Wang. Institute of Veterinary Medicine, Jiangsu Academy of Agricultural Sciences, Nanjing, China.

P1-PH1-02

IMMUNOREACTIVITY ANALYSIS OF NONSTRUCTURAL PROTEINS 3D OF RABBIT HEMORRHAGIC DISEASE VIRUS

Fang Wang. Institute of Veterinary Medicine, Jiangsu Academy of Agricultural Sciences, Nanjing, China.

P1-PH1-03

EFFICACY EVALUATION OF YURVAC® RHD AGAINST DIFFERENT STRAINS OF RABBIT HAEMORRHAGIC DISEASE

Sandra Gascon Torrens. HIPRA, Amer, Spain.

P1-PH1-04

SAFETY EVALUATION OF YURVAC® RHD IN BREEDING DOES

Eva Perozo Mur. HIPRA, Amer, Spain.

P1-PH1-05

EVALUATION OF THE SAFETY AND IMMUNOGENICITY UNDER FIELD CONDITIONS OF YURVAC® RHD IN RABBITS KITS

Eva Perozo Mur. HIPRA, Amer, Spain.

P1-PH1-06

FIELD EXPERIENCE WITH YURVAC® RHD DURING AN RHD OUTBREAK

Sandra Gascon Torrens. HIPRA, Amer, Spain.

P1-PH1-07

EFFICACY EVALUATION OF YURVAC® RHD AGAINST A CURRENT HIGHLY VIRULENT RHDV2 STRAIN

Eva Perozo Mur. HIPRA, Amer, Spain.

P1-PH1-08

EFFICACY OF THE PASSIVE IMMUNITY AGAINST RHD IN RABBIT KITS WHEN BREEDING DOES ARE VACCINATED WITH YURVAC® RHD

Sandra Gascon Torrens. HIPRA, Amer, Spain.

P1-PH1-09

FREQUENT MYXOMATOSIS VACCINATION WITH MIXOHIPRA® H DOES NOT REDUCE THE PRE-EXISTING ANTIBODY RESPONSE

Massimiliano Baratelli. HIPRA, Amer, Spain.

P1-PH1-10

ATYPICAL CLINICAL AND PATHOLOGICAL FINDINGS IN CASES OF MYXOMATOSIS AND RABBIT HEMORRHAGIC DISEASE

Ana Abad Fau. Instituto Agroalimentario de Aragón-IA2, Universidad de Zaragoza, Zaragoza, Spain.

P1-PH1-11

CONSTRUCTION OF RECOMBINANT PRECOCIOUS LINE OF EIMERIA MAGNA EXPRESSING VP60-P2 DERIVED FROM RHDVII (RABBIT HAEMORRHAGIC DISEASE VIRUS II)

Wenxuan Chen. China Agricultural University, Beijing, China.

P1-PH1-12

A CLINICAL CASE: CO-INFECTION OF *PASTEURELLA MULTOCIDA* AND RABBIT HEMORRHAGIC DISEASE VIRUS GI.1 AND GI.2 IN A RABBIT FARM

Yan Liu. Zhejiang Academy of Agricultural Sciences, Hangzhou, China.

EW1: WELFARE/FARMING

Chairs:

Davi Savietto. French National Research Institute for Agriculture, Food and Environment INRAE, Toulouse, France.

Laping Wu. China Agricultural University, Beijing, China.

P1-EW1-01

INFLUENCE OF RESTRICTION VISIT PERIOD AT NEST ON BEHAVIOR AND PERFORMANCE IN RABBITS (*ORYCTOLAGUS CUNICULUS*)

Kazandra Barreto Romero. Ejercicio profesional privado, Maracay, Venezuela.

P1-EW1-02

CONTROLLED NURSING AS A STRATEGY TO REDUCE MORTALITY OF NEW ZEALAND WHITE KITS

Leandro Dalcin Castilha. State University of Maringá, Maringá, Brazil.

P1-EW1-03

ASSESSING THE PHYSIOLOGICAL STATE OF RABBITS UNDER HEAT STRESS USING INFRARED THERMOGRAPHY.

Lesia Ponkalo. Institute of Animal Biology NAAS, Lviv, Ukraine.

P1-EW1-04

RESEARCH ON THE SUITABLE TEMPERATURE IN SUMMER BASED ON THE GROWING RABBIT TEMPERATURE, BEHAVIOR AND GROWTH PERFORMANCE

Quangang Wang. College of Animal Science and Technology, China Agricultural University, Beijing, China.

P1-EW1-05

EFFECTO OF TWO STUNNING METHODS ON THE OCCURRENCE OF LESIONS IN CALIFORNIA RABBIT CARCASSES

Yamileth Jerónimo Romero. Colegio de Postgraduados, TEXCOCO, Mexico.

P1-EW1-06

A METHOD FOR FAST SEGMENTING IMAGES OF LARGE-SCALE CAGED RABBITS

Liangju Wang. China Agricultural University, Beijing, China.

P1-FE1-01

CHARACTERISATION OF SMALLHOLDER RABBIT PRODUCTION IN ANDALUSIA (SPAIN)

Pedro González-Redondo. University of Seville, Seville, Spain.

P1-FE1-02

CAREER ASPIRATIONS AND ENTRY PATHS INTO RABBIT FARMING

Valerie Fillon. INRAE, Toulouse, France.

P1-FE1-04

AUTODESARROLLO COMUNITARIO DESDE UNA ECONOMÍA FEMINISTA A TRAVÉS DE LA CUNICULTURA.

Misleidys Rodríguez Pedroso. Asociación cubana de Producción Animal (ACPA) Filial Mayabeque, Mayabeque, Cuba.

P1-FE1-05

SOCIO-ECONOMIC IMPACTS OF MODIFICATIONS TO RABBIT FARMING SYSTEMS TO IMPROVE ANIMAL WELFARE

Thierry Gidenne. INRAE Occitanie-Toulouse, Toulouse, France.

P1-FE1-07

WILL CHINA'S MEAT RABBIT FARMS HAVE ECONOMIES OF SCALE DURING THE 13TH FIVE-YEAR PLAN PERIOD?

Yongyang Wu. China Agricultural University, Beijing, China.

16:30 – 18:00

AUGUST AUDITORIUM

ROUND TABLE: PATHOLOGY

• STRATEGIES FOR THE REDUCTION OF ANTIMICROBIALS CONSUMPTION IN RABBIT

Chair: *Luca Bano. Istituto Zooprofilattico Sperimentale delle Venezie, Treviso, Italy.*

Speakers:

Joan Maria Rosell Pujol. Cunivet Service, Tarragona, Spain

Francesco Gratta. Veronesi-Group, Italy.

Xun Suo. China Agricultural University, Beijing, China.

Metzli Mayte Garcia Bernal. Universidad Nacional Autónoma de México, Mexico City, Mexico.

16:30 – 18:00

POSTER AREA

GUIDED POSTER 2

R1: REPRODUCTION

Chair: *Simona Mattioli. University of Perugia, Perugia, Italy.*

P2-R1-01

EFFECT OF THE ADDITION OF MELATONIN DURING THE CRYOPRESERVATION OF RABBIT SEMEN IN CENTRAL MEXICO

Daniel González Ruiz. Facultad de Estudios Superiores Cuautitlán-UNAM, Estado de México, Mexico.

P2-R1-02

STUDY OF THE QUALITY OF REFRIGERATED SEMEN SAMPLES IN TWO LINES DIVERGENTLY SELECTED FOR LITTER SIZE VARIABILITY.

Daniel Serrano-Jara. Universidad Miguel Hernández de Elche, Orihuela, Spain.

P2-R1-03

ESTROGEN PROFILE OF RABBITS BUCKS FED LINSEED AND ALGAE DIETARY SUPPLEMENTATION

Simona Mattioli. University of Perugia, Perugia, Italy.

P2-R1-04

SEMEN CHARACTERISTICS OF NEW ZEALAND WHITE RABBIT BUCKS FED DIETS CONTAINING BANANA CO-PRODUCTS

Leandro Dalcin Castilha. State University of Maringá, Maringá, Brazil.

P2-R1-05

SEMEN QUALITY POST-THAWING: THE USEFULNESS OF SPERM WASHING PROCEDURE FOR RABBIT SEMEN

Viviane Endo Hidalgo. Pharming Technologies B.V., Schaijk, Netherlands.

P2-R1-06

PLASMA FATTY ACID PROFILE AT EARLY GESTATION IN TWO LINES DIVERGENTLY SELECTED FOR LITTER SIZE VARIABILITY

Maria José Argente. Universidad Miguel Hernández, Orihuela, Spain.

P2-R1-07

EFFECTS OF DIETARY ASTAXANTHIN ON REPRODUCTIVE PERFORMANCE AND ANTIOXIDATIVE CAPACITY OF RABBIT DOES UNDER HEAT STRESS

Ning Liu. China Agricultural University, Beijing, China.

P2-R1-08

USE OF DAPI STAINING TO ASSESS MEMBRANE INTEGRITY BY FLOW CYTOMETRY IN RABBIT SPERMATOZOA.

Daniel Serrano Jara. Centro de Investigación e Innovación Agroalimentaria y Agroambiental (CIAGRO-UMH), Universidad Miguel Hernández de Elche, Orihuela, Spain.

P2-R1-10

GERMPLASM COLLECTION OF ITALIAN RABBIT BREEDS: BIODIVERSITY CONSERVATION THROUGH THE ESTABLISHMENT OF A SEMEN CRYOBANK

Fabrizio Lauriola. D University of Molise, Campobasso, Italy.

P2-R1-11

ANTIMICROBIAL RESISTANCE IN THE PRODUCTION OF RABBIT SEMINAL DOSES

María Pilar Viudes-De-Castro. Centro de Investigación y Tecnología Animal, Instituto Valenciano de Investigaciones Agrarias, Segorbe, Spain.

P2-R1-12

CLONING OF GONADOTROPIN-INHIBITORY HORMONE RECEPTOR GENE NPFFR1 IN RABBIT (ORYCTOLAGUS CUNICULUS) AND ITS EXPRESSION ANALYSIS IN HYPOTHALAMIC-PITUITARY-TESTICULAR AXIS

Lei Sang. Fujian Academy of Agricultural Sciences, Fuzhou, China.

BG1: GENETICS

Chair: Juan Pablo Sánchez Serrano. Institute of Agrifood Research and Technology, Caldes de Montbui, Spain.

P2-BG1-01

INNATE-IMMUNITY GENE EXPRESSION BASED ON PGR POLYMORPHISM OF RABBITS IN RELATION TO LITTER SIZE

Lubomir Ondruska. National Agricultural and Food Centre, Luzianky, Slovakia.

P2-BG1-03

IDENTIFICATION AND DIFFERENTIAL EXPRESSION OF MRNA IN SUMMER TESTICULAR TISSUE OF REX RABBITS

Hanzhong Liu. Sichuan academy of grassland sciences, chengdu, China.

P2-BG1-06

COMPARATIVE TRANSCRIPTOME PROFILING OF SKELETAL MUSCLE FROM FUJIAN WHITE RABBIT (ORYCTOLAGUS CUNICULUS) AT DIFFERENT GROWTH STAGES USING RNA-SEQ

Xiping Xie. Institute of Animal Husbandry and Veterinary Medicine, Fujian Academy of Agricultural Sciences, Fuzhou, China.

Q1: QUALITY

Chair: *Pilar Hernández Pérez. Universitat Politècnica de València, Valencia, Spain.*

P2-Q1-01

MANUFACTURED NUTRITIONAL BENEFITS OF A RANGE OF DELICATESSEN PRODUCTS FROM RABBIT MEAT FED A DIET ENRICHED WITH DHA OF ALGAL ORIGIN

Clarisse Palacios. COPRI, Ploudalmézeau, France.

P2-Q1-02

EFFECT OF EXTRUDED LINSEED INTEGRATION IN RABBITS' DIET, ON MEAT'S FATTY ACID PROFILE AND MICROBIOLOGICAL QUALITY

Stella Agradi. University of Milano, Milano, Italy.

P2-Q1-03

LOW-INPUT DIET FOR FATTENING RABBITS: INDEXING OF THE MEAT FATTY ACID PROFILE

Alessandro Dal Bosco. University of Perugia, Perugia, Italy.

P2-Q1-04

POST-MORTEM CHILLING OF CARCASSES FOR 18 HOURS PRIOR TO ULTRA FREEZING ENHANCES THE TENDERNESS OF BOTUCATU RABBIT MEAT

Leandro Dalcin Castilha. UEM, Maringá, Brazil.

P2-Q1-05

EFFECT OF FREQUENCY AND INTENSITY OF ULTRASOUND ON RABBIT MEAT

Isaac Jhonatan Vargas Saenz. Universidad Autónoma de Chihuahua, Chihuahua, Mexico.

P2-Q1-06

EFFECT OF SEX AND AGE ON THE CHEMICAL COMPOSITION OF THE LONGISSIMUS THORACIS ET LUMBORUM MUSCLE IN BOTUCATU RABBITS

Leandro Dalcin Castilha. UEM, Maringa, Brazil.

P2-Q1-08

STUDY ON THE EFFECT OF FREEZE-DRYING TREATMENT ON RABBIT HAIR PERFORMANCE

Yingwei Cao. TianGong University, TianJin, China

P2-Q1-09

ANTI-HAIR LOSS FINISHING OF RABBIT HAIR FABRIC AND ITS EFFECT EVALUATION BASED ON IMAGE PROCESSING

Leixu Chen. TianGong University, TianJin, China

18:00 – 18:30

EXHIBITION AREA

WELCOME RECEPTION

18:45

CITY TOUR ORGANIZED BY THE MAJOR OF TARRAGONA

THURSDAY, OCTOBER 3rd

09:00 – 09:30

AUGUST AUDITORIUM

PLENARY TALK 4: WELFARE

Chair: *Davi Savietto*. French National Research Institute for Agriculture, Food and Environment INRAE, Toulouse, France.

- **MEASURING ON FARM WELFARE IN RABBITS: A REVIEW WITH EMPHASIS ON ANIMAL BASED INDICATORS**

Speaker: *Angela Trocino*. University of Padova, Legnaro (Padova), Italy.

09:30 – 10:30

AUGUST AUDITORIUM

O7-BP1

ORAL SESSION 07 - BIOLOGY & PHYSIOLOGY 1

Chair: *Gabriela González Mariscal*. CINVESTAV, Ixtacuixtla, México.

O7-BP1-01

HEAT STRESS INFLUENCE ON HEMATOLOGICAL STATUS AND BODY TEMPERATURE IN TWO MATERNAL RABBIT LINES WITH DIFFERENT LONGEVITIES.

Iliyass Biada. Universidad Politécnica de Valencia, Valencia, Spain.

O7-BP1-02

METHIONINE REGULATES THE APOPTOSIS IN HEAT-STRESSED DERMAL PAPILLA CELLS VIA WNT/ B-CATENIN PATHWAY

Shu Li. Shandong Agricultural University, Taian, China.

O7-BP1-03

ASSESSMENT OF THE EFFICACY OF MORINGA OLEIFERA AQUEOUS SEED EXTRACT ON PHYSIOLOGICAL PARAMETERS IN MANAGEMENT OF HEAT STRESS IN FEMALE RABBITS

Mutwedu Valence Bwana. Université Evangélique en Afrique, Bukavu, Democratic Republic of Congo.

O7-BP1-04

PHYSICOCHEMICAL CHARACTERISTICS AND REPELLENT EFFECT OF RABBIT DROPPINGS FED WITH A GRANULATED FOOD BASED ON STYLOSANTHES GUIANENSIS

Kimsé Moussa. Nangui ABROGOUA University, Abidjan, Ivory Coast.

O7-BP1-05

ORAL ADMINISTRATION OF THE FLAVONOID QUERCETIN. A DOSE-RESPONSE APPROACH FOR PRODUCTIVE STUDIES IN THE RABBIT DOE

Alejandro Vicente-Carrillo. Complutense University of Madrid, Madrid, Spain.

09:30 – 10:30

EUTYCHES AUDITORIUM

O8-Q1

ORAL SESSION 08: QUALITY & PRODUCTS 1

Chair: *Pilar Hernández Pérez. Universitat Politècnica de València, Valencia, Spain.*

O8-Q1-01

EFFECT OF EXTRUDED LINSEED AND ALGAE PADINA PAVONICA'S DIETARY SUPPLEMENTATION ON MEAT FATTY ACID PROFILE IN FATTENING RABBITS

Stella Agradi. University of Milan, Lodi, Italy.

O8-Q1-02

IMPACT OF DIETARY INCLUSION LEVELS OF CAMELINA CAKE (CAMELINA SATIVA (L.) CRANTZ) ON MEAT QUALITY IN GROWING-FATTENING RABBITS

Emanuele Pontalti. University of Padova, Legnaro, Italy.

O8-Q1-03

NIX COLOUR SENSOR AS POTENTIAL TOOL FOR EVALUATING COLOUR IN RABBIT MEAT

Massimiliano Petracci. University of Bologna, Cesena, Italy.

O8-Q1-04

CONSUMER PERCEPTION OF THE HEALTHINESS OF RABBIT MEAT

Katalin Szendrői. Hungarian University of Agricultural and Life Sciences, Kaposvár, Hungary.

09:30 – 10:30

GENIUS ROOM

O9-BG2

ORAL SESSION 09: BREEDING & GENETIC 2

Chair: *María De La Luz García Pardo. Universidad Miguel Hernández, Elche, Spain.*

O9-BG2-01

PLASMA ORGANIC ACIDS AT DELIVERY IN TWO LINES DIVERGENTLY SELECTED FOR LITTER SIZE VARIABILITY

María-José Argente. Universidad Miguel Hernández, Orihuela, Spain.

O9-BG2-02

ENVIRONMENTAL STRESS RESPONSE ASSESSMENT BY INFRARED THERMOGRAPHY IN TWO RABBIT LINES DIVERGENTLY SELECTED FOR LITTER SIZE VARIABILITY

Daniel Serrano Jara. Centro de Investigación e Innovación Agroalimentaria y Agroambiental (CIAGRO-UMH), Universidad Miguel Hernández de Elche, Orihuela, Spain.

O9-BG2-03

META-ANALYSIS OF ASSOCIATION BETWEEN IGF-2 GENE POLYMORPHISMS AND BODY WEIGHT OF RABBITS

Hameed Bashiru. Obafemi Awolowo University, Ile-Ife, Nigeria.

O9-BG2-04

POPULATION GENOMIC ANALYSES DESCRIBE UNIQUE GENETIC FEATURES OF SEVERAL RABBIT BREEDS AND LINES

Samuele Bovo. Animal and Food Genomics Group, University of Bologna, Bologna, Italy.

10:30 – 11:00
Exhibition Area

COFFEE BREAK

11:00 – 11:30
AUGUST AUDITORIUM

PLENARY TALK 5: REPRODUCTION 

Chair: *Simona Mattioli. University of Perugia, Perugia, Italy.*

- **EXPLORING RABBIT SEMEN CRYOPRESERVATION AND THE CRUCIAL ROLE OF CRYOBANK: UNVEILING ADVANTAGES AND PROMISING PERSPECTIVES**

Speaker: *Nicolaia Iaffaldano. University of Molise, Campobasso, Italy.*

11:30 – 12:30
AUGUST AUDITORIUM

O10-NF3

ORAL SESSION 10: NUTRITION & FEEDING 3

Chair: *Javier García. Universidad Politécnica de Madrid, Madrid, Spain.*

Co-chair: *Gerolamo Xiccato. University of Padova, Padova, Italy.*

O10-NF3-01

EFFECT OF ORGANIC ACIDS SUPPLEMENTATION IN FEED OR WATER ON GROWTH PERFORMANCE, NUTRIENT DIGESTIBILITY AND GASTROINTESTINAL TRACT CHARACTERISTICS IN FATTENING RABBITS.

Adrián Ramón Moragues. Universitat Politècnica de València, Valencia, Spain.

O10-NF3-02

SUSTAINED RELEASE OF DIETARY MICROENCAPSULATED BUTYRIC ACID IN FATTENING RABBITS.

Adrián Ramón Moragues. Universitat Politècnica de València, Valencia, Spain.

O10-NF3-03

PERFORMANCE AND MEAT QUALITY OF GROWING RABBITS FED DIETS INCLUDING *CHLORELLA VULGARIS*

Francesco Bordignon. University of Padova, Legnaro (PD), Italy.

O10-NF3-04

IMPACT OF DIETARY ENRICHMENT WITH OMEGA-3 POLYUNSATURATED FATTY ACIDS FROM EXTRUDED LINSEED AND ALGAE ON THE GROWTH PERFORMANCE OF RABBITS

Nour Elhouda Fehri. University of Milan, Lodi, Italy.

11:30 – 12:30

EUTYCHES AUDITORIUM

O11-PH3

ORAL SESSION 11: PATHOLOGY & HYGIENE 3

Chair: *Antonio Lavazza. Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia-Romagna (IZSLER), Brescia, Italy.*

O11-PH3-01

INTRA-FARM DYNAMIC OF *PASTEURELLA MULTOCIDA* POPULATIONS IN COMMERCIAL RABBITRIES

Benedetta Cordioli. Istituto Zooprofilattico Sperimentale delle Venezie (IZSVe), Treviso, Italy.

O11-PH3-02

EVALUATION OF CLINICAL IMPROVEMENTS DUE TO AN AUTOVACCINE AGAINST *PASTEURELLA MULTOCIDA* IN RABBITS IN FIELD CONDITIONS

Elena Circella. Department of Veterinary Medicine, Bari, Italy.

O11-PH3-03

EXPLORING STRAIN AND ANTIMICROBIAL RESISTANCE DIVERSITY IN *STAPHYLOCOCCUS AUREUS* IN RABBIT FARMS

Patricia Mascarós Núñez. Universidad CEU Cardenal Herrera, Valencia, Spain.

O11-PH3-04

CLOSTRIDIODES DIFFICILE IN RABBITS: STUDY OF PREVALENCE AND ASSOCIATED LESIONS

Ana Abad Fau. Instituto Agroalimentario de Aragón-IA2, Universidad de Zaragoza, Zaragoza, Spain.

O11-PH3-05

ASSESSING THE CLINICAL EFFICACY OF SALINOMYCIN TO CONTROL *EIMERIA MEDIA* AND *EIMERIA MAGNA* IN RABBITS

Monita Vereecken. Huvepharma NV, Antwerp, Belgium

11:30 – 12:30

GENIUS ROOM

O12-BG3

ORAL SESSION 12: BREEDING & GENETIC 3

Chair: *Saidu Oseni. Obafemi Awolowo University, Ile-Ife, Nigeria.*

O12-BG3-01

TRANSCRIPTOMIC ANALYSIS IN THE LIVER OF TWO RABBIT LINES DIVERGENTLY SELECTED FOR INTRAMUSCULAR FAT CONTENT.

Pilar Hernández. Universitat Politècnica de València, Valencia, Spain.

O12-BG3-02

TRANSCRIPTOME SEQUENCING IDENTIFIES KEY MRNAS AND LNCRNAs REGULATING INTRAMUSCULAR FAT DEPOSITION DURING LONGISSIMUS DORSI MUSCLES DEVELOPMENT IN HYCOLE AND REX RABBITS

Xianggui Dong. Northwest A & F University, Yangling, China.

O12-BG3-03

EXPLORING MORTALITY AND CULLING CAUSES OF BREEDING DOES THROUGH GUT MICROBIOME ANALYSIS

Iliyass Biada. Universidad Politécnica de Valencia, Valencia, Spain.

O12-BG3-04

METAGENOMIC AND METABOLOMIC ANALYSIS OF THE CECUM REVEALED THAT INFLAMMATION WAS ASSOCIATED WITH LOW BODY WEIGHT

Songjia Lai. Sichuan Agricultural University, Chengdu, China.

O12-BG3-05

GENOMIC REGIONS ASSOCIATED WITH THE COMPOSITION OF THE RABBIT CAECAL MICROBIOTA

Hervé Garreau. INRAE, Castanet-Tolosan, France.

12:30 – 13:00

AUGUST AUDITORIUM

PLENARY TALK 6: QUALITY

Chair: *Pilar Hernández Pérez. Universitat Politècnica de València, Valencia, Spain.*

- **RABBIT MEAT QUALITY WITH AN APPROACH TO ITS PROCESSING WITH THE USE OF SPICES OR SPECIFIC INGREDIENTS AS ANTIOXIDANTS**

Speaker: *Simone Mancini. University of Pisa, Pisa, Italy.*

13:00 – 14:30

Exhibition Area

LUNCH BREAK

14:30 – 16:00

AUGUST AUDITORIUM

ROUND TABLE: WELFARE

- **END OF THE CAGE: ACTUAL STATUS OF POSSIBILITIES OF ALTERNATIVE HOUSING**

Chair: *Juan José Pascual. Universitat Politècnica de Valencia, Valencia, Spain.*

Speakers:

Angela Trocino. University of Padova, Legnaro (Padova), Italy.

Aránzazu Villagrà García. Instituto Valenciano de Investigaciones Agrarias (IVIA), Valencia, Spain.

Valerie Fillon. INRAE, Toulouse, France.

Beatriz Messía. Intercun-ERA, Spain.

16:00 – 17:00

AUGUST AUDITORIUM

O13-NF4

ORAL SESSION 13: NUTRITION & FEEDING 4

Chair: *Thierry Gidenne. INRAE Occitanie-Toulouse, Toulouse, France.*

Co-chair: *María Cambra López. Universitat Politècnica de Valencia, Valencia, Spain.*

O13-NF4-01

ARGININE RECOMMENDATIONS IN HIGH GROWTH RATE RABBITS: GROWTH PERFORMANCE, DIGESTIVE UTILISATION AND BODY RETENTION

Catarina Alexandra Peixoto Gonçalves. Universitat Politècnica de València, Valencia, Spain.

O13-NF4-02

EFFECT OF A TWICE A WEEK FASTING ON PERFORMANCE, HEALTH AND FEEDING BEHAVIOR OF FATTENING RABBITS

Gwenael Rebours. TECHNA France Nutrition, Coueron, France.

O13-NF4-03

PRESENCE OF VINASSE IN BEET PULP: IMPACT ON THE HEALTH AND GROWTH OF FATTENING RABBITS

Thierry Gidenne. INRAE Occitanie-Toulouse, Toulouse, France.

16:00 – 17:00

EUTYCHES AUDITORIUM

O14-EW1

ORAL SESSION 14 - ETHOLOGY & WELFARE 1

Chair: *Davi Savietto. French National Research Institute for Agriculture, Food and Environment INRAE, Toulouse, France.*

O14-EW1-01

PERFORMANCE OF RABBIT DOES REPRODUCED IN GROUP.

Mariam Pascual. Institut de Recerca i Tecnologies Agroalimentàries (IRTA), Barcelona, Spain.

O14-EW1-02

AGGRESSION AMONG RABBIT DOES IN A PART-TIME HOUSING SYSTEM: EFFECT OF GENOTYPE AND ENVIRONMENTAL ENRICHMENT

Angela Trocino. University of Padova, Legnaro (Padova), Italy.

O14-EW1-03

GROUP-HOUSING OF YOUNG RABBIT DOES: BEHAVIOUR, HEALTH AND PERFORMANCES ACCORDING TO GROUP SIZE AND MANAGEMENT

Laura Warin. ITAVI, Nouzilly, France.

O14-EW1-04

USE OF THE WINTER GARDEN BY RABBITS

Emeline Guene-Grand. ADM, Chierry, France.

O14-EW1-05

CAGES VS COURTYARD: EFFECT OF THE HOUSING CONDITIONS ON BEHAVIOUR, STRESS AND PERFORMANCE OF GROWING RABBITS

Fillon Valérie. INRAE, Toulouse, France.

16:00 – 17:00

GENIUS ROOM

O15-R1

ORAL SESSION 15: REPRODUCTION 1

Chair: *Simona Mattioli. University of Perugia, Perugia, Italy.*

O15-R1-02

EFFECT OF FEED SUPPLEMENTATION WITH PLANT-DERIVED OMEGA 3 ON THE PRODUCTIVE AND REPRODUCTIVE PERFORMANCE OF FEMALE RABBITS

Alda Quattrone. University of Milan, Lodi, Italy.

O15-R1-03

EFFECT OF LINSEED AND ALGAE DIETARY SUPPLEMENTATION ON SEMEN QUALITATIVE CHARACTERISTICS AND LIPID METABOLISM OF RABBIT BUCKS

Francesca Di Federico. University of Perugia, Perugia, Italy.

O15-R1-04

POSITIVE EFFECTS OF KISSPEPTIN ON RABBIT OVULATION

Silvia Gimeno-Martos. Universidad Complutense/Universidad Zaragoza, Madrid/ Zaragoza, Spain.

17:00 – 17:30

Exhibition Area

COFFEE BREAK

17:30 – 19:00

AUGUST AUDITORIUM

ROUND TABLE: ECONOMY

• SPECIFIC NEEDS FOR THE SUSTAINABILITY OF RABBIT PRODUCTION AROUND THE WORLD

Chair: *Saidu Oseni. Obafemi Awolowo University, Ile-Ife, Nigeria.*

Speakers:

Leandro Dalcin Castilha. State University of Maringá, Maringá, Brazil.

Meinrad Odermatt. Delimpex AG, Switzerland.

Zhao Qiran. China Agricultural University, China.

Saidu Oseni. Obafemi Awolowo University, Ile-Ife, Nigeria.

18:30 – 20:00

WRSA General Meeting

20:30

Buses depart from the venue to the Gala Dinner at L'Orangerie*

**Ticket for the Gala Dinner is required.*

FRIDAY, OCTOBER 4TH

09:30 – 10:00

AUGUST AUDITORIUM

PLENARY TALK 7: BIOLOGY

Chair: *Gabriela González Mariscal. CINVESTAV, Ixtacuixtla, México.*

- **CORE GUT MICROBIOTA IN RABBIT: OPPORTUNITIES TO STRENGTHEN THE INTESTINAL BARRIER**

Speaker: *Sylvie Combes. INRAE, Castanet, France.*

10:00 – 11:00

AUGUST AUDITORIUM

O16-NF5

ORAL SESSION 16: NUTRITION & FEEDING 5

Chair: *Nuria Nicodemus. Universidad Politécnica de Madrid, Madrid, Spain.*

Co-chair: *Davi Savietto. French National Research Institute for Agriculture, Food and Environment INRAE, Toulouse, France.*

O16-NF5-01

NUTRITIONAL ASSESSMENT OF LOCAL AGRICULTURAL PRODUCTS AND BY-PRODUCTS AND THEIR COMBINATIONS IN NON-CONVENTIONAL FEED VARIANTS FOR RABBITS

Annia Cardosa Gracia. Guantanamo University, Guantánamo, Cuba.

O16-NF5-02

EFFECT OF A STYLOSANTHES GUIANENSIS-BASED FEED ON THE DIGESTIVE HEALTH, GROWTH AND REPRODUCTIVE PERFORMANCE OF RABBITS IN CÔTE D'IVOIRE.

Kimse Moussa. Nangui ABROGOUA University, Abidjan, Ivory Coast.

O16-NF5-04

DEHYDRATED BANANA PEEL IN DIETS FOR NEW ZEALAND WHITE RABBITS ON MEAT QUALITY AND OXIDATIVE STABILITY

Leandro Dalcin Castilha. State University of Maringá, Maringá, Brazil.

10:00 – 11:00

EUTYCHES AUDITORIUM

O17-R2

ORAL SESSION 17: REPRODUCTION 2

Chair: *Simona Mattioli. University of Perugia, Perugia, Italy.*

O17-R2-01

EFFECT OF DIFFERENT GNRH ANALOGUE TREATMENTS ON REPRODUCTION OF CALORIC AND LIGHT-STIMULATED RABBIT DOES

Eiben Csilla. National Centre for Biodiversity and Gene Conservation, Gödöllő, Hungary.

O17-R2-02

ENHANCING OVULATION RESPONSE WITH CATHETER USE IN RABBIT ARTIFICIAL INSEMINATION

Juan José Castillo Díaz. Centro de investigación y tecnología animal, Segorbe, Castellón, Spain.

O17-R2-05

COMPARISON OF DIFFERENT METHODS TO ASSESS RABBIT SPERM VIABILITY

Daniel González Ruiz. UNAM, Estado de México, Mexico.

10:00 – 11:00

GENIUS ROOM

O18-FE2

ORAL SESSION 18: FARMING SYSTEM & ECONOMY 2

Chair: *Laping Wu. China Agricultural University, Beijing, China.*

O18-FE2-01

ORGANIC RABBIT FARMING PERFORMANCES IN FRANCE BASED ON A BENCHMARK WITH GAELA SMARTPHONE APPLICATION

Thierry Gidenne. INRAE Occitanie-Toulouse, Toulouse, France.

O18-FE2-02

RESEARCH AND DEVELOPMENT OF MECHANICAL FEEDING SYSTEM OF MEAT RABBIT HOUSE BASED ON INTERNET OF THING

Wei Jiang. China Agricultural University, Beijing, China.

O18-FE2-03

ENVIRONMENTAL IMPACT OF RABBIT PRODUCTION: AN ITALIAN SCENARIO

Francesco Bordignon. University of Padova, Legnaro (PD), Italy.

O18-FE2-05

PRELIMINARY CHARACTERIZATION OF MADAGASCAR'S FARMED RABBITS

Aly Sambiazy. University of Turin, Turin, Italy.

11:00 – 11:30

Exhibition Area

COFFEE BREAK

11:30 – 12:00

AUGUST AUDITORIUM

PLENARY TALK 8: GENETICS

Chair: *Miriam Piles Rovira. IRTA, Spain.*

• **ENHANCING THE SUSTAINABILITY OF RABBIT PRODUCTION FROM THE PERSPECTIVE OF ANIMAL GENETICS**

Speaker: *Juan Pablo Sanchez Serrano. IRTA, Spain.*

12:00 – 13:00

AUGUST AUDITORIUM

O19-BP2

ORAL SESSION 19: BIOLOGY & PHYSIOLOGY 2

Chair: *Gabriela González Mariscal. CINVESTAV, Ixtacuixtla, México.*

O19-BP2-01

EFFECT OF HOUSING SYSTEM ON BLOOD AND INTESTINAL TRAITS OF LOCAL RABBIT

Cecilia Mugnai. Univeristy of Turin, Turin, Italy.

O19-BP2-02

MATERNAL MELATONIN: EFFECTIVE INTERVENTIONS FOR THE BENEFICIAL DEVELOPMENTAL PROGRAMMING OF HAIR FOLLICLES IN RABBIT OFFSPRING

Yang Feng. Gansu Agricultural University, Lanzhou, China.

O19-BP2-05

EFFECT OF EARLY MALE RABBIT (ORYCTOLAGUS CUNICULUS) CASTRATION ON BEHAVIOUR, EXTERNAL GENITAL ANATOMY AND WEIGHT GROWTH

Samuel Boucher. Labovet Conseil, Les Herbiers, France.

12:00 – 13:00

EUTYCHES AUDITORIUM

O20-PH4

ORAL SESSION 20: PATHOLOGY & HYGIENE 4

Chair: *Antonio Lavazza. Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia-Romagna (IZSLER), Brescia, Italy.*

O20-PH4-01

DETERMINATION OF THE PRESENCE OF THE PSOROPTES CUNICULI MITE IN YOUNG RABBITS FROM THE SECOND WEEK OF LIFE

Metzli Mayte García Bernal. Universidad Autónoma de México, México, Mexico.

O20-PH4-03

INVESTIGATION ON ANTICOCCIDIAL DRUG RESISTANCE AGAINST DICLAZURIL OF RABBIT COCCIDIA IN SOME AREA OF CHINA

Xianyong Liu. China Agricultural University, Beijing, China.

O20-PH4-04

CLINICAL AND PATHOLOGICAL FINDINGS AND MOLECULAR CHARACTERIZATION OF TRICHOPHYTON MENTAGROPHYTES IN AN ATYPICAL CASE OF DERMATOPHYTOSIS

Ana Abad Fau. Instituto Agroalimentario de Aragón-IA2, Universidad de Zaragoza, Zaragoza, Spain.

O20-PH4-05

THE AHOL (ANIMAL HEALTH ONTOLOGY FOR LIVESTOCK) ONTOLOGY FOR INTEGRATING DATA ON THE MAIN DISEASES OF FARMED ANIMALS: AN EXAMPLE FOR THE RABBIT SECTOR

Mélanie Gunia. INRAE, Castanet-Tolosan, France.

12:00 – 13:00

GENIUS ROOM

O21-BG4

ORAL SESSION 21: BREEDING & GENETIC 4

Chair: *Temitope Akilapa Peter. Osun State College of Education, ILA-ORANGUN, Nigeria.*

O21-BG4-01

GENETIC LINE RESTORATION AS A STRATEGY FOR SOLVING PROBLEMS IN RABBIT PATERNAL LINES.

Catarina Alexandra Peixoto Gonçalves. Universitat Politècnica de València, Valencia, Spain.

O21-BG4-02

PRELIMINARY ESTIMATES OF THE RESPONSE TO SELECTION FOR FEED EFFICIENCY IN THREE LINES OF MEAT RABBITS.

Juan Pablo Sánchez Serrano. Institute of Agrifood Research and Technology, Caldes de Montbui, Spain.

O21-BG4-03

THE EVALUATION FOR CARCASS PRODUCTION FROM DIFFERENT GENOTYPES OF COMMERCIAL RABBITS IN THE TROPICAL CONDITION

Asep Setiaji Setiaji. Diponegoro, Semarang, Indonesia.

O21-BG4-05

EUROPEAN NETWORK ON LIVESTOCK PHENOMICS (EU-LI-PHE): HOW TO INCLUDE THE RABBIT INTO THE ANIMAL PHENOTYPING SPACE

Cristina Casto-Rebollo. Instituto Universitario de Ciencia y Tecnología Animal, Universitat Politècnica de València, Valencia, Spain.

13:00 – 13:30

AUGUST AUDITORIUM

PLENARY TALK 9: MISCELLANEOUS

Chair: Kimse Moussa. Nangui ABROGOUA University, Abidjan, Ivory Coast.

- **CHALLENGES AND OPPORTUNITIES FOR THE APPLICATIONS OF PRECISION LIVESTOCK FARMING IN THE RABBIT PRODUCTION SECTOR**

Speaker: Tomas Norton. KU Leuven, Leuven, Belgium.

13:30 – 15:00

Exhibition Area

LUNCH BREAK

15:00 – 16:00

AUGUST AUDITORIUM

O22-Q2

ORAL SESSION 22: QUALITY & PRODUCTS 2

Chair: Pilar Hernández Pérez. Universitat Politècnica de València, Valencia, Spain.

O22-Q2-01

EFFECT OF HOUSING SYSTEM ON LOCAL RABBIT PERFORMANCE, CARCASS AND MEAT QUALITY

Cecilia Mugnai. University of Turin, Turin, Italy.

O22-Q2-02

INFLUENCE OF CAGE OR GROUND PEN HOUSING ON CARCASS TRAITS AND MEAT QUALITY OF RABBIT

François-Xavier Menini. Mixscience (Avril Group), Rennes, France.

O22-Q2-04

EFFECT OF EARLY CASTRATION ON ANGORA HAIR PRODUCTION

Samuel Boucher. Labovet Conseil, Les Herbiers, France.

15:00 – 16:00

EUTYCHES AUDITORIUM

O23-EW2

ORAL SESSION 23: ETHOLOGY & WELFARE 2

Chair: *Davi Savietto. French National Research Institute for Agriculture, Food and Environment INRAE, Toulouse, France.*

O23-EW2-02

STUDY OF THE FATTENING RABBIT BEHAVIOR ACCORDING TO FOUR HOUSING SYSTEMS

Gwenaél Rebours. Techna France Nutrition, Coueron, France.

O23-EW2-03

EFFECT OF TWO STOCKING DENSITIES ON PERFORMANCES OF RABBIT REARED IN GROUND PENS.

Charly Gohier. Mixscience (Groupe Avril), Rennes, France.

O23-EW2-04

EVALUATION OF ENVIRONMENTAL CONDITIONS IN RABBITRIES THROUGH INNOVATIVE MULTIFUNCTIONAL DEVICES

Manuel Garbuio. Istituto Zooprofilattico Sperimentale delle Venezie (IZSve), Treviso, Italy.

O23-EW2-05

WELFARE ASSESSMENT OF FARMED RABBITS IN ITALY: PRELIMINARY DATA OF THE APPLICATION OF THE CLASSYFARM PROTOCOL FOR OFFICIAL VETERINARY CONTROLS

Clara Tolini. Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna "Bruno Ubertini", Brescia, Italy.

15:00 – 16:00

GENIUS ROOM

O24-R3FE3

ORAL SESSION 24: REPRODUCTION 3 AND FARMING SYSTEM & ECONOMY 3

Chair:

Simona Mattioli. University of Perugia, Perugia, Italy.

Laping Wu. China Agricultural University, Beijing, China.

O24-FE3-01

MEAT RABBIT VALUE CHAINS IN NIGERIA

Saidu Oseni. Obafemi Awolowo University, Ile-Ife, Nigeria.

O24-FE3-02

PRELIMINARY CHARACTERIZATION OF RABBIT FARMING SYSTEM IN MADAGASCAR

Aly Sambiazy. University of Turin, Turin, Italy.

O24-R3-02

TEAT NUMBER AND ITS IMPORTANCE IN RABBIT. MINI REVIEW

Zsolt Szendrő. Hungarian University of Agriculture and Life Sciences, Kaposvár, Hungary.

O24-R3-03

ULTRASOUND-ASSISTED LIQUEFACTION OF RABBIT SEMEN: EVALUATING THE IMPACT ON SPERM QUALITY

Sanan Raza. University of Veterinary & Animal Sciences, Jhang, Pakistan.

15:00 – 16:30

POSTER AREA

GUIDED POSTER 3

NF2: NUTRITION

Chair: *Sylvie Combes. INRAE, Castanet, France.*

Co-chair: *Angela Trocino. University of Padova, Legnaro (Padova), Italy.*

P3-NF2-01

IN VITRO DIGESTIBILITY AS A PREDICTOR OF APPARENT FIBRE DIGESTIBILITY IN RABBITS

Javier García Alonso. ETSI Agronómica Alimentaria y de Biosistemas, Universidad Politécnica de Madrid, Madrid, Spain.

P3-NF2-03

CANNABIDIOL IN RABBIT NUTRITION: EFFECTS ON GROWTH PERFORMANCE AND CARCASS TRAITS.

Mariarosaria Lanzieri. University of Napoli Federico II, Napoli, Italy.

P3-NF2-04

EFFECTS OF ADDING DIFFERENT PROBIOTICS TO FEED ON THE PRODUCTION PERFORMANCE, INTESTINAL MUCOSAL IMMUNITY, AND CECAL FERMENTATION OF RABBITS

Mingyong Li. Qingdao Kangda Rabbit Industry Development Co., Ltd, Qingdao, China.

P3-NF2-06

EFFECT OF A OF OIL-BASED CANNABIS EXTRACT ON BEHAVIOUR AND OXIDATIVE STRESS INDEX (OSI) IN GROWING RABBITS

Valeria Iervolino. University of Napoli Federico II, Napoli, Italy.

P3-NF2-07

EFFECT OF A DIET CONTAINING CAMELINA CAKE (CAMELINA SATIVA(L.)CRANTZ)ONGROWTHPERFORMANCEANDPANCREATIC ENZYME ACTIVITIES IN GROWING-FATTENING RABBITS

Zdeněk Volek. Institute of Animal Science, Prague, Czech Republic.

P3-NF2-08

EFFECTS OF ASTRAGALUS POLYSACCHARIDE ON GROWTH PERFORMANCE, ANTIOXIDANT STATUS AND ANTI-RHDV ANTIBODY TITERS OF WEANED RABBITS

Pin Zhai. Institute of Animal Science, Jiangsu Academy of Agricultural Sciences, NanJing, China.

P3-NF2-09

BENIFITS OF QUERCETAGETIN ON CECAL MICROBIOTA AND SHORT-CHAIN FATTY ACID OF RABBITS

Baojiang Chen. College of Animal Science and Technology, Hebei Agricultural University, Baoding, China.

P3-NF2-10

EFFECTS OF YEAST PEPTIDE ON ANTIOXIDANT CAPACITY OF MEAT RABBITS

Baojiang Chen. College of Animal Science and Technology, Hebei Agricultural University, Baoding, China.

PH2: PATHOLOGY

Chair: *Antonio Lavazza. Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia-Romagna (IZSLER), Brescia, Italy.*

P3-PH2-01

GENOME SEQUENCING AND ANALYSIS OF A RABBIT PASTEURELLA MULTOCIDA SEROGROUP F ISOLATE LH06 IN CHINA

Fang Wang. Institute of Veterinary Medicine, Jiangsu Academy of Agricultural Sciences, Nanjing, China.

P3-PH2-02

CHARACTERIZATION AND IMMUNOLOGICAL EFFECT OF OUTER MEMBRANE VESICLES FROM PASTEURELLA MULTOCIDA

Yee Huang. Institute of Animal Husbandry and Veterinary Science, Hangzhou, China.

P3-PH2-03

A VEGETABLE OIL ADJUVANT ENHANCED THE IMMUNE RESPONSE INDUCED BY BORDETELLA BRONCHISEPTICA VACCINE IN RABBITS

Yan Liu. Institute of Animal Husbandry and Veterinary Science, Zhejiang Academy of Agricultural Sciences, Hangzhou, China.

P3-PH2-04

PANGENOME AND PHILOGENY IN STAPHYLOCOCCUS AUREUS STRAINS FROM RABBITS

José Francisco Díaz Méndez. Universidad CEU Cardenal Herrera, Alfara del Patriarca, Spain.

P3-PH2-05

MOBILE GENETIC ELEMENTS IN STAPHYLOCOCCUS AUREUS STRAINS FROM FARM RABBITS

Carmen Martínez Seijas. Universidad CEU Cardenal Herrera, Moncada, Spain.

P3-PH2-06

BACTERIOPHAGE COMBINATIONS SIGNIFICANTLY REDUCE E. COLI INFECTION IN RABBITS

Yan Liu. Animal Husbandry and Veterinary Institute, Zhejiang Academy of Agricultural Sciences, Hangzhou, China.

P3-PH2-07

A CASE REPORT OF TYZZER'S DISEASE IN COMMERCIAL RABBIT DOES

Benedetta Cordioli. Istituto Zooprofilattico Sperimentale delle Venezie (IZSVe), Treviso, Italy;

P3-PH2-09

EFFECT OF PILIOSTIGMA THONNINGII LEAVES ON YOUNG RABBITS DIGESTIVE HEALTH AND GROWING PERFORMANCE

Kimse Moussa. Nangui ABROGOUA University, Abidjan, Ivory Coast.

P3-PH2-10

EFFECTS OF THE AQUEOUS EXTRACT OF THE LEAVES OF *PILIOSTIGMA THONNINGII* (SCHUMACH.) MILNE-REDH. (FABACEAE) ON THE GROWTH AND DIGESTIVE HEALTH OF RABBITS.

Kaboré Adjara. Université Nangui ABROGOUA, Abidjan, Ivory Coast.

P3-PH2-11

CURCUMIN ALLEVIATES ZEARALENONE INDUCED LIVER INJURY IN MEAT RABBITS BY REGULATING NRF2/ARE SIGNALING PATHWAYS

Saijuan Chen. College of Animal Science and Technology, Hebei Agricultural University, Baoding, Hebei, China.

BG2: GENETICS

Chair: *Xianggui Dong. Northwest A & F University, Yangling, China.*

P3-BG2-01

DEVELOPMENT AND APPLICATION OF A WHOLE-GENOME BREEDING CHIP FOR MEAT RABBITS

Yubing Wang. College of Animal Science and Technology, Shandong Agricultural University, Tai'an, China.

P3-BG2-04

ANALYSIS OF CHROMATICITY VALUES OF YELLOW ANGORA RABBIT HAIR COLOUR

Liyuan Jiao. College of Animal Science and Technology, Shandong Agricultural University, Tai'an, China.

P3-BG2-05

STUDY OF SOME REPRODUCTIVE TRAITS FOR HUNGARIAN GIANT FEMALE RABBITS

Csilla Eiben. National Centre for Biodiversity and Gene Conservation, Gödöllő, Hungary.

P3-BG2-06

EVALUATION OF PRODUCTIVE PARAMETERS IN FESC LINE RABBIT FEMALES, CROSSBRED WITH MALES OF THREE PURE BREEDS.

Elisa Gutiérrez Hernández. UNAM, Cuautitlan, Estado de México, Mexico.

P3-BG2-07

COMPARATIVE STUDY OF FATTENING RABBITS FROM A GENETIC LINE AND THREE PURE BREEDS.

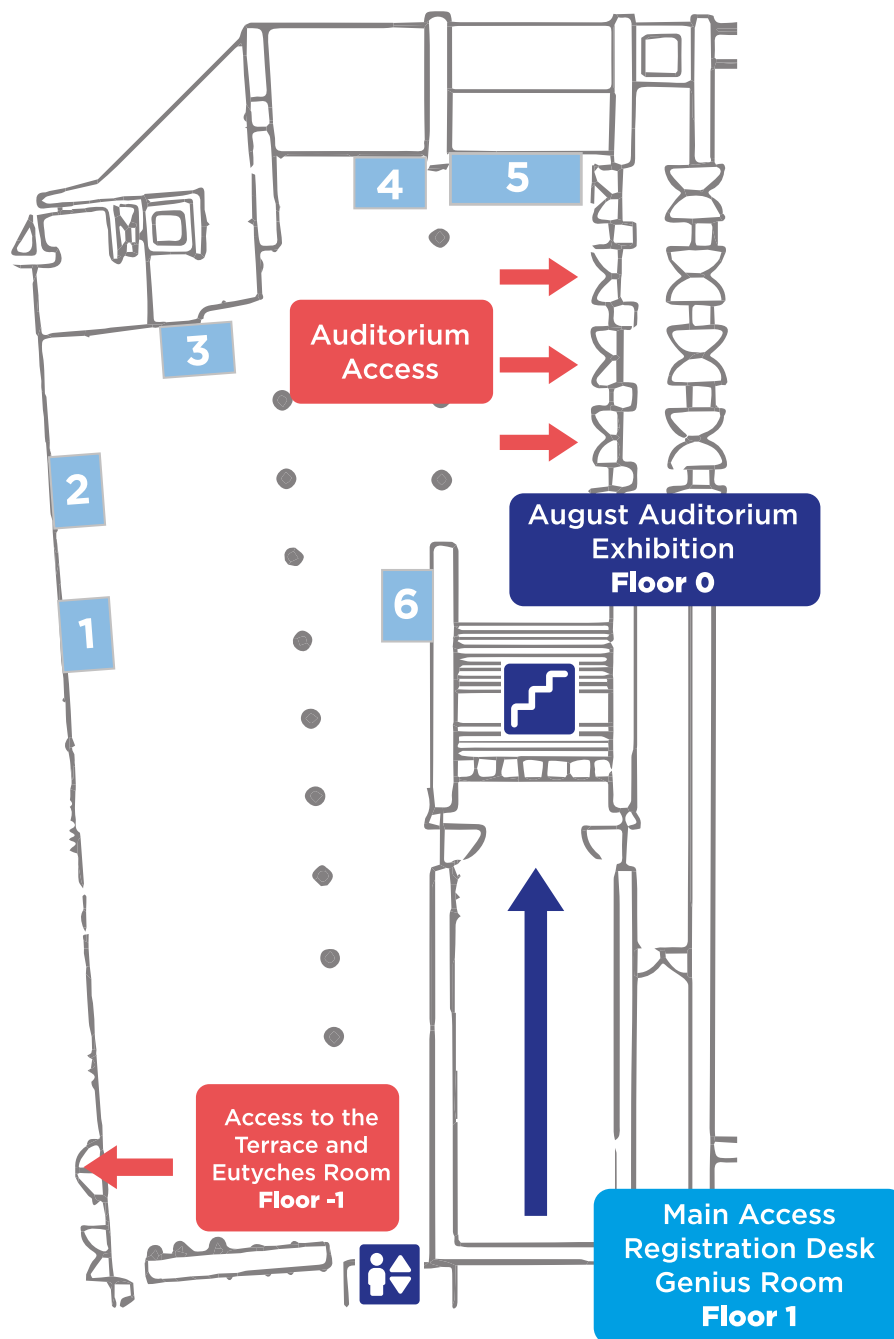
Elisa Gutiérrez Hernández. UNAM, Cuautitlan, Estado de México, Mexico.

16:30 – 17:30
AUGUST AUDITORIUM

AWARDS AND CLOSING CEREMONY

EXHIBITION

Hall August – Level 0



Nº	EXHIBITOR
1	 World Rabbit Science Association  IRTA Institut de Recerca i Tecnologia Agroalimentàries  Asociación Española de Cunicultura
2	 GOMEZ Y CRESPO SMART ANIMAL SOLUTIONS
3	 Biogénesis Bagó

Nº	EXHIBITOR
4	 ERA EUROPEAN RABBIT ASSOCIATION
5	 HIPRA
6	 中国畜牧业协会 CHINA ANIMAL AGRICULTURE ASSOCIATION

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