

XXIInd

CONGRESS OF THE

WVPA

World Veterinary Poultry Association

Verona (Italy)

September 4-8, 2023

Italian Branch of the World
Veterinary Poultry Association



SCIENTIFIC PROGRAMME





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Welcome

On behalf of the Italian Branch of the World Veterinary Poultry Association and the Local Organizing Committee (LOC) it's my privilege to welcome you to the 22nd World Veterinary Poultry Association (WVPA) Congress hosted in Verona, for the first time in Italy!

Verona is located in the heart of Veneto, one of the leading Italian regions in poultry production; the Veneto Region, along with Lombardy and Emilia- Romagna, represents one of the most important areas for poultry farming in Europe. Verona is also a city of unique beauty, witness to thousands of years of history, capital of wine production and gastronomy that for sure you will enjoy.

In accordance with the WVPA executive board due to the Covid-19 pandemic our congress was postponed from 2021 to 2023. It was not an easy decision but I'm sure this postponement has ensured a successful congress in line with WVPA expectations in terms of high participation of attendances from different part of the world, high standard and number of scientific speeches and sponsor visibility. We received more than 600 abstracts from several countries belonging to all continents demonstrating interest and appreciation for this conference from all over the world.

We are proud to present an exceptional and intense conference program with the contribution of brilliant keynote speakers covering traditional as well as emerging topics that the scientific community is beginning to deal with.

The current avian influenza (AI) situation has been raising concerns within the international community. Since October 2021, an unprecedented number of outbreaks has been reported in several regions of the world, reaching new geographical areas and causing devastating impacts on animal health and welfare. A dedicated symposium has been organized to discuss about possible measures to implement for better prevention and control.

Organizing such an international and huge scientific event has been an extremely intense and stimulating experience, embarked on with fellow travelers whom I would like to acknowledge properly: heartfelt thanks to the people involved in the Local Organizing and Scientific committees and in the WVPA Global.

Special thanks also to the reviewers, authors, sponsors and our delegates making this a successful and popular congress.

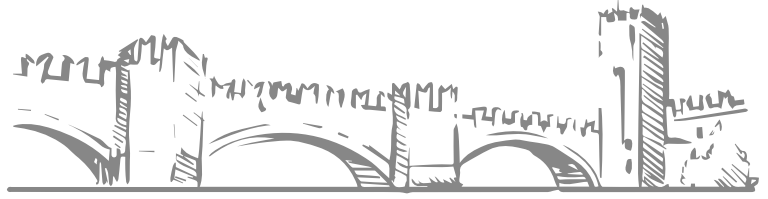
Finally, this congress could not have been possible without the staff of our professional conference organizer, VET International srl, who guided us friendly with its experience through key decisions.

I wish you a memorable and fruitful congress, both scientifically and socially!

Prof. Mattia Cecchinato

Chairman

XXIInd WVPA Congress Italy



Welcome

Dear attendees of WVPAC2023

Dear WVPA members

Dear colleagues and friends

It is a real pleasure and honor for me to welcome you at the XXIInd Congress of the World Veterinary Poultry Association.

Four years have passed since WVPA last held its global congress and the congress initially scheduled in 2021 had to be postponed due to the global sanitary situation. So many things have changed. Covid19 has demonstrated how prominent the One Health concept is, and how comparative pathology and knowledge gathered from veterinary studies are important to protect human health (think what the complexity of infectious bronchitis vaccine control teaches us about vaccine options against Covid). Birds have their panzootic too, and H5 highly pathogenic influenza viruses are still raging worldwide in poultry and wild avifauna, gaining access to new territories. These viruses pose an increasing threat to both poultry production and ultimately human health, with increasingly frequent spill-over from birds to mammalian species. Climate change, international economic changes, social expectations and welfare concerns, entail modifications of poultry breeding and feeding techniques. These changes expose poultry to new conditions, risks and pathogens which need to be identified, understood and controlled. Veterinarians' therapeutic behavior in animal production and its adaptation to avoid the selection of antimicrobial resistance that could spread in the environment or the food chain is increasingly scrutinized. All these challenges are essential to tackle in the poultry production field, as in the context of the global increase of human population, poultry meat and eggs are still one of the cheapest way to produce high quality and safe proteins, which are essential to food security and economic empowerment at both the largest (global) and smallest (local) scales.

To face these fast evolving challenges and long-standing unresolved issues in poultry health, exchange of professional experience and of the latest scientific information is of paramount importance. It is poultry veterinarians' responsibility to bring new solutions and to explain how poultry production addresses these issues. This is the essence of WVPA, and especially of WVPA global congress.

I would like to express WVPA most sincere thanks to the Italian branch of WVPA and their professional congress organizer partner company, to the many congress commercial partners, and of course to poultry scientists worldwide who shared their results, for bringing the XXIInd WVPA congress to life under such an outstanding format, in an extraordinary venue where attendees can share the latest scientific developments, and enjoy Italian hospitality, culture and historical heritage.

I would like to extend our thanks to all attendees, WVPA members or not, who invested their valuable time in joining the congress. I am convinced they will gather at WVPAC2023 a wealth professional information summarized in these proceedings, meet new professional partners and gain lifelong memories and friends.

Thank you all for making WVPAC2023 such a success.

Nicolas Eterradosi

President of WVPA



Committees

The Local Organising Committee

- **Mattia Cecchinato** - Chair
Department of Animal Medicine, Production and Health, University of Padova, Italy
- **Elena Catelli** - Scientific Convener
Department of Veterinary Medical Sciences, University of Bologna, Italy
- **Salvo Catania**
Diagnostic Service, Avian Medicine Laboratory, Istituto Zooprofilattico Sperimentale delle Venezie, Verona, Italy
- **Davide Giovanardi**
Tre Valli Laboratory, Verona, Italy
- **Rossella Pedicone**
Unaitalia, National Association of the agri-food supply chains meat and eggs, Roma, Italy
- **Francesco Prandini**
Avian Global Technical Services Director, Boehringer Ingelheim Animal Health
- **Alessandro Scolari**
Director of Vallerana Laboratory and Private practitioner, Cremona, Italy
- **Francesca Corona**
Professional Congress Organiser, VET INTERNATIONAL

The Scientific Committee

- **Luca Bano**
Istituto Zooprofilattico Sperimentale delle Venezie, Italy
- **Antonio Camarda**
University of Bari Aldo Moro, Italy
- **Salvatore Catania**
Istituto Zooprofilattico Sperimentale delle Venezie, Italy
- **Elena Circella**
University of Bari Aldo Moro, Italy
- **Ludovico Dipineto**
University of Naples Federico II, Italy
- **Maria Pia Franciosini**
University of Perugia, Italy
- **Davide Giovanardi**
Tre Valli Laboratory, Verona, Italy
- **Guido Grilli**
University of Milan, Italy
- **Matteo Legnardi**
University of Padova, Italy
- **Caterina Lupini**
University of Bologna, Italy
- **Giulia Mescolini**
Local Veterinary Service of Romagna, Forli, Italy
- **Ana Moreno**
Istituto Zooprofilattico sperimentale della Lombardia e dell'Emilia Romagna "Bruno Ubertini", Brescia, Italy
- **Alessandra Piccirillo**
University of Padova, Italy
- **Francesco Prandini**
Boehringer Ingelheim Animal Health
- **Alessandro Scolari**
Director of Vallerana Laboratory and Private practitioner, Cremona, Italy
- **Federico Sirri**
University of Bologna, Italy
- **Calogero (Lillo) Terregino**
Istituto Zooprofilattico Sperimentale delle Venezie, Italy
- **Giovanni Tosi**
Istituto Zooprofilattico sperimentale della Lombardia e dell'Emilia Romagna "Bruno Ubertini", Italy
- **Claudia Maria Tucciarone**
University of Padova, Italy

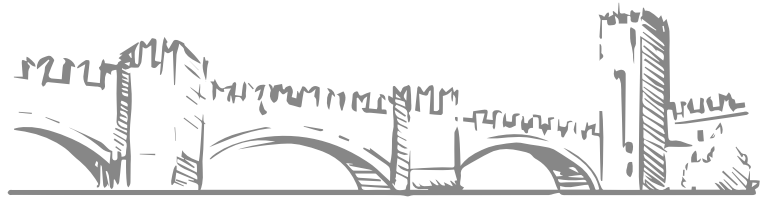


Reviewers

Antonissen Gunther
Baigent Susan
Bano Luca
Bonfante Francesco
Borrelli Luca
Bortolami Alessio
Brugaletta Giorgio
Calini Franco
Camarda Antonio
Casalino Gaia
Circella Elena
Coroian Mircea
Davidson Irit
Dipineto Ludovico
Ducatez Mariette
Falchieri Marco
Franciosini Maria Pia
Franzo Giovanni
Ganapathy Kannan
Giacomelli Martina
Giovanardi Davide
Gobbo Federica
Grafl Beatrice
Grilli Guido
Grund Christian
Guerin Jean-Luc
Harder Timm
Hess Claudia
Hess Michael
Inbar Amnon
Isabelle Monne
La Ragione Roberto
Laconi Andrea
Lavazza Antonio
Legnardi Matteo

A SPECIAL RECOGNITION FOR
ALL THE REVIEWERS INVOLVED
IN THE WVPAC 2023 ABSTRACTS
EVALUATION PROCESS.

Liebhart Dieter
Lupini Caterina
Majó Masferrer Natàlia
McMullin Paul F.
Mescolini Giulia
Moore Robert
Moreno Ana Maria
Obe Venugopal Nair
Pace Antonio
Panzarin Valentina
Papadopoulos Elias
Perrucci Stefania
Petracci Massimiliano
Piccirillo Alessandra
Pikula Anna
Prandini Francesco
Rautenschlein Silke
Rychlik Ivan
Samarelli Rossella
Schiavone Antonella
Scolari Alessandro
Servilla Navarro Sandra
Sirri Federico
Soglia Francesca
Swayne David E.
Terregino Calogero
Tosi Giovanni
Trogu Tiziana
Tucciarone Claudia Maria
Van Immerseel Filip
Varriale Lorena
Zampiga Marco
Zohari Siamak



Patronages

ASPA - Animal Science and Production Association

ASSOAVI - Associazione nazionale allevatori e produttori avicunicoli

FNOVI - Federazione Nazionale Ordini Veterinari Italiani

SIPA - Società Italiana di Patologia Aviaria

SISVET - Società Italiana delle Scienze Veterinarie

SIVAR - Società Italiana Veterinari Animali da Reddito

UNAITALIA - Associazione Filiere Agroalimentari Italiane

Istituto Zooprofilattico Sperimentale del Lazio e della Toscana

Istituto Zooprofilattico Sperimentale delle Venezie

Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta

Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna

Università degli Studi di Bari "Aldo Moro" - Dipartimento di Medicina Veterinaria

Università degli Studi di Milano - Dipartimento di Medicina Veterinaria e Scienze Animali

Università degli Studi di Padova - Dipartimento di Medicina animale, produzioni e salute

Università degli Studi di Perugia - Dipartimento di Medicina Veterinaria

Comune di Verona

ConfCommercio Verona

WPSA - World Poultry Science Association - Italian Branch



International Host Organisation

WVPA - THE WORLD VETERINARY POULTRY ASSOCIATION



National Host Organization

S.I.P.A. SOCIETÀ ITALIANA DI PATOLOGIA AVIARE



Organising Secretariat



VET INTERNATIONAL Srl
Parma & Milano, Italy
info@vetinternational.eu
www.vetinternational.eu

The Congress Venue



VERONA PALAEXPO AND CONFERENCE HOUSE
V.le del Lavoro 8, 37135 Verona, Italy



XXIIIrd WVPA CONGRESS

WORLD VETERINARY POULTRY ASSOCIATION

KUCHING • MALAYSIA 2025

SUSTAINABLE HEALTHY POULTRY FOR A HEALTHIER WORLD

6 - 10 October 2025

Borneo Convention Centre, Kuching



ABOUT KUCHING, SARAWAK

Selamat Datang! Kuching, also known as the "Cat City", has a rich history and diverse range of attractions that make it a captivating destination. As the administrative capital throughout the times of the Brunei Sultanate, the White Rajahs of Sarawak, and the British Colonial rule, Kuching has a fascinating blend of cultural influences. Sarawak itself boasts an impressive natural landscape with 37 gazetted national parks, 5 wildlife sanctuaries and 14 nature reserves, encompassing vast rainforests comparable to the size of Austria. This lush environment is home to iconic wildlife such as the hornbill, proboscis monkey and orangutan.

Sarawak's culinary scene is another aspect that sets it apart. The local cuisine is a delightful fusion of flavors influenced by the region's diverse cultures. From the flavorful "manok pansuh" (chicken cooked in bamboo), to the savoury "Sarawak Laksa," and the delightful "kolo mee", the list of unique culinary offerings is extensive. The Melanau delicacy "umai", featuring thinly sliced fish and sago pearls, is also a must-try dish.

We invite you to discover the wonders of Kuching, Sarawak, and experience its extraordinary blend of experiences.

WVPAC 2025

The poultry industry is a crucial food-producing industry in Malaysia and many countries in this region, contributing significantly to the wealth of the nations and safeguarding our food security. The WVPA Malaysia, under the auspices of the World Veterinary Poultry Association, will host the XXIIIrd World Veterinary Poultry Association Congress (WVPAC 2025) from 6 to 10 October 2025 at Borneo Convention Centre, Kuching, Sarawak in Malaysia. The conference theme is "Sustainable Healthy Poultry for a Healthier World", where various topics on control and prevention of poultry diseases, food safety and food security will be presented and discussed by poultry experts from industry and academia all around the world.

Organized By



Supported By



Meet in 
Malaysia
BE Greater, Together.

Malaysia
Truly Asia



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GOLD SPONSORS



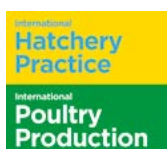
EXHIBITORS



OTHER SPONSORS



MEDIA PARTNERS





Sponsors Information

BOEHRINGER INGELHEIM (DIAMOND SPONSOR)

The lives of animals and humans are connected in deep and complex ways - from the spaces we share and the food that we eat to our combined health and the loving bonds that bind us. We know that when animals are healthy, humans are healthier, too. In Boehringer Ingelheim Poultry we are driven by the desire to bring value to poultry producers around the world. To deliver value through innovation, to enhance the well-being of both. We serve our communities and are respectful of our resources.

CEVA (DIAMOND SPONSOR)

Ceva Santé Animale (Ceva) is the 5th global animal health company, led by experienced veterinarians, whose mission is to provide innovative health solutions for all animals to ensure the highest level of care and well-being. Our portfolio includes preventive medicine such as vaccines, pharmaceuticals, and animal welfare products for farm and companion animals, as well as equipment and services to provide the best experience for our customers. With 6,500 employees located in 47 countries, Ceva strives daily to bring to life its vision as a One Health company: "Together, beyond animal health".

2022 turnover: €1.53 billion.

www.ceva.com

ELANCO (DIAMOND SPONSOR)

Elanco is a global leader in animal health dedicated to innovating and delivering products and services to prevent and treat disease in farm animals and pets, creating value for farmers, pet owners, veterinarians, stakeholders, and society as a whole.

In the Elanco poultry range we are experts in the following categories of products. Salmonella vaccines have proven to reduce Salmonella in birds, as part of a comprehensive 360° approach. The Feed Additives products support bird health (nutritional products, enzymes, anticoccidials). The Biosecurity range includes the best-in-class insecticides to help you protect against disease, economic and facility damage caused by insects.

HIPRA (DIAMOND SPONSOR)

HIPRA is a biotechnological pharmaceutical company focused on prevention for animal and human health, with a broad range of highly innovative vaccines.

Our commitment to the poultry industry is characterized by developing revolutionary solutions to fight against the main avian diseases. At HIPRA, we also invest in optimizing the vaccination process for birds, both on the farm and in the hatchery, and therefore achieve safe, high-quality and sustainable meat and egg production.

HIPRA is ranked one of the global leaders in the veterinary industry developing vaccines for Animal Health and all thanks to our wide experience, knowledge and extensive network all around the world.



Sponsors Information

MSD (DIAMOND SPONSOR)

MSD Animal Health, a division of Merck & Co., Inc., Rahway, N.J., USA, is the global animal health business of MSD. Through its commitment to The Science of Healthier Animals®, MSD Animal Health offers veterinarians, farmers, pet owners and governments one of the widest ranges of veterinary pharmaceuticals, vaccines and health management solutions and services as well as an extensive suite of connected technology that includes identification, traceability and monitoring products. MSD Animal Health is dedicated to preserving and improving the health, well-being and performance of animals and the people who care for them. For more information, visit www.msd-animal-health.com.

ZOETIS (DIAMOND SPONSOR)

Zoetis is the world's leading animal health company. The use of science to sustain life is at the foundation of everything we do. How can science create longer, more fulfilling lives for pets? Better life-saving treatments for veterinarians to use? More sustainable livelihoods for ranchers and livestock farmers, with safer food for the people they serve?

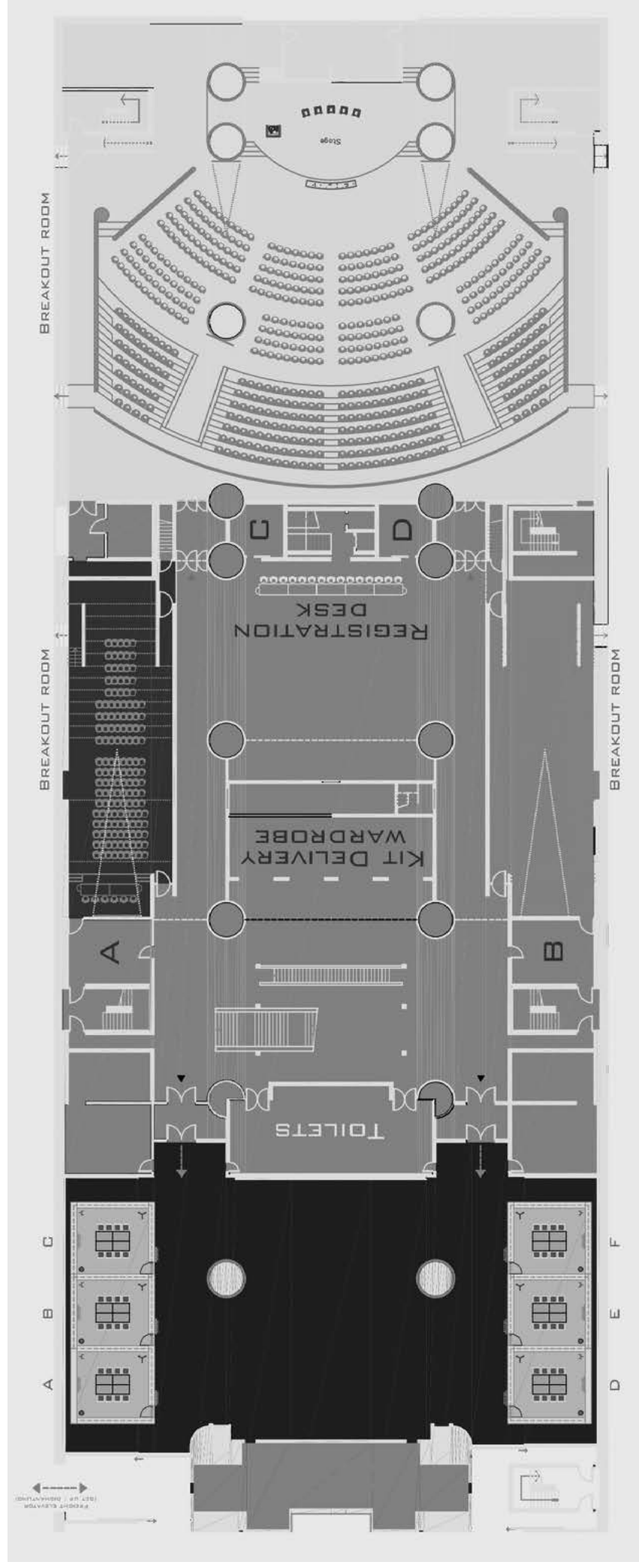
We answer these questions through a mixture of innovation and compassion, leaning on cutting-edge technologies and deep-seated connections to our communities to create advancements in animal health vaccines, medicines, diagnostics and technologies. We ensure science is always at the center of our journey forward.

Palaeexpo - Underground floorplan

Diamond Sponsors
Breakout Rooms

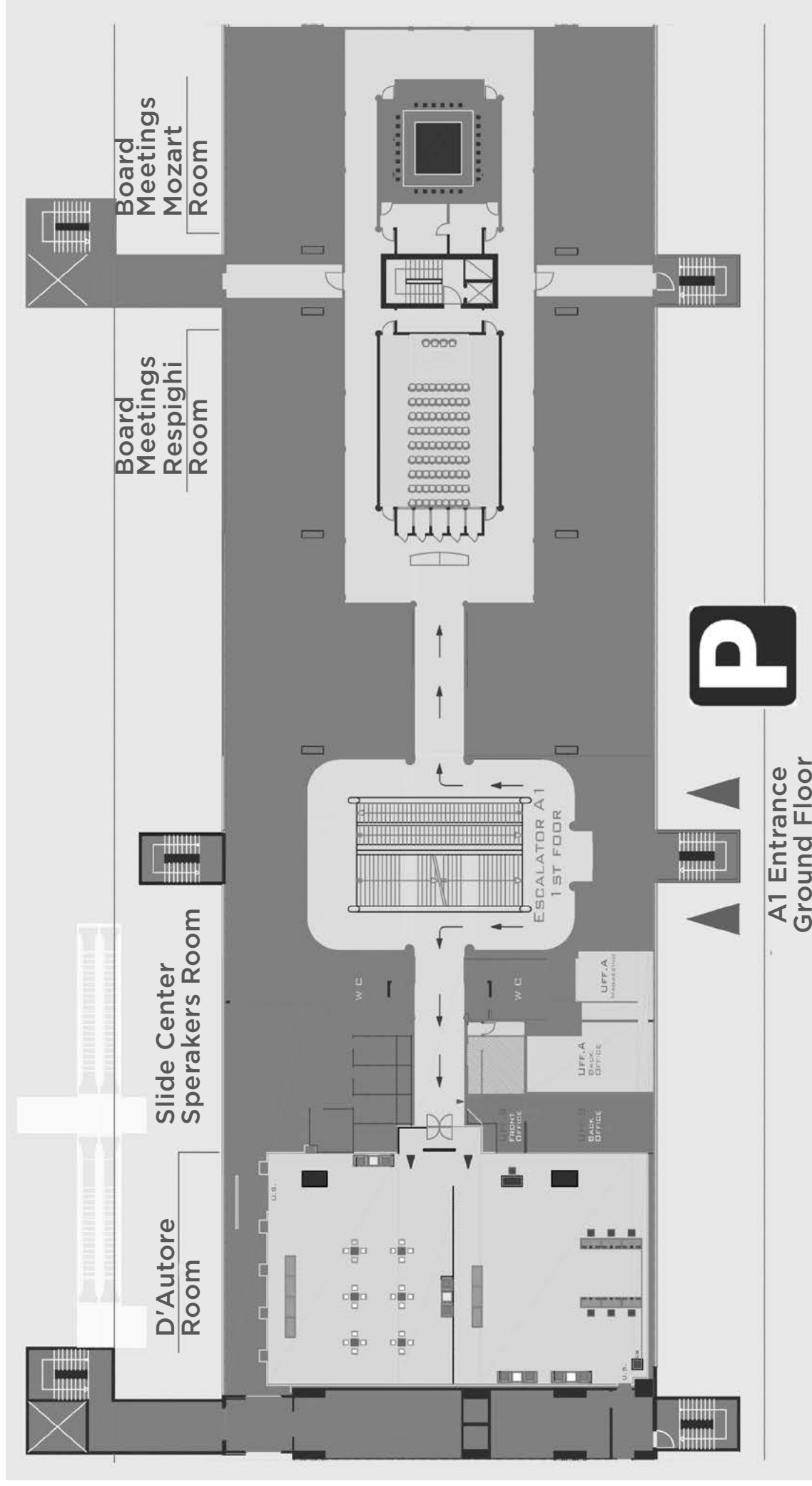
Salieri Room

Auditorium Verdi



Vivaldi Room

Palaexpo - 1 floorplan

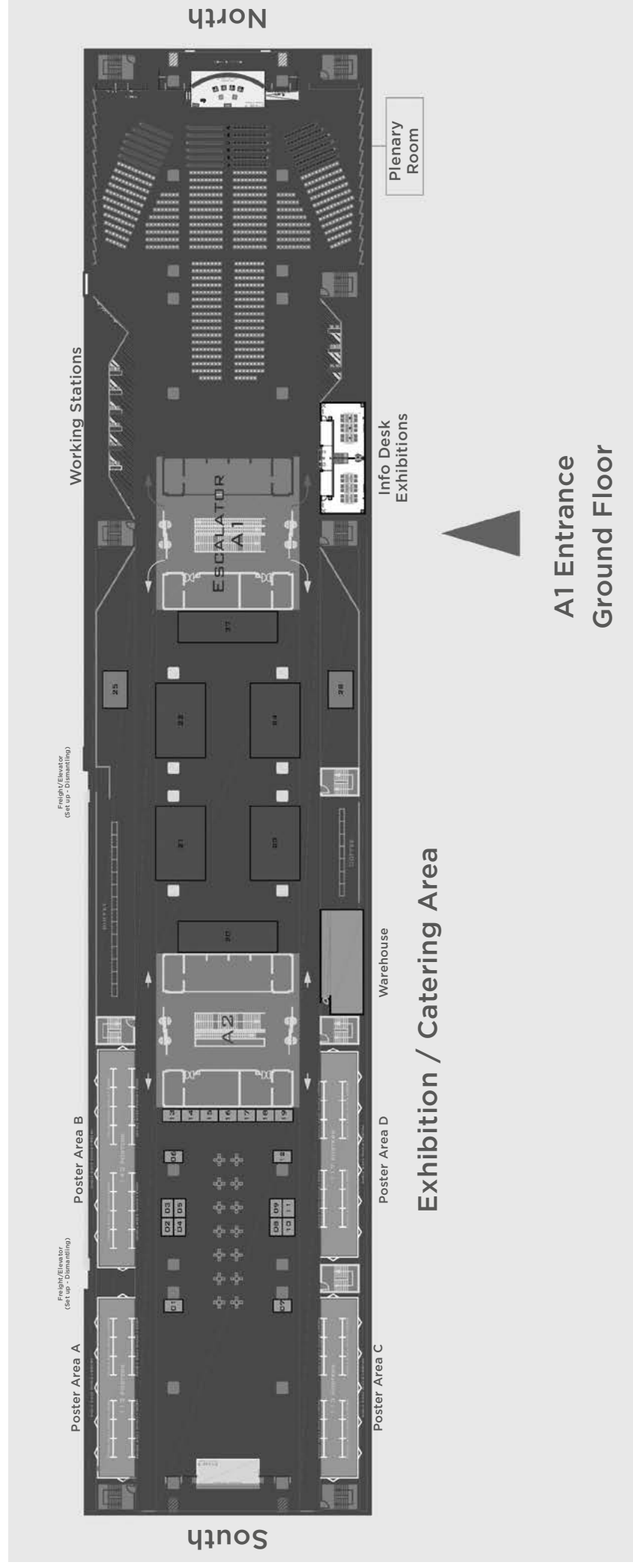


Palaexpo - 2 floorplan

South Module

Central Module

North Module



Scientific Programme



MONDAY, 4 th SEPTEMBER 2023			
MON 04.09	FOYER - UNDERGROUND FLOOR	AUDITORIUM VERDI - UDERGROUND FLOOR	SECOND FLOOR
10.00 h	REGISTRATIONS OPENING		
14.00 h		WORKSHOP ON AVIAN INFLUENZA Advancing the Fight Against HPAI Clade 2.3.4.4b: Insights from Laboratory Trials on Vaccine Efficacy	
14.00 h		Welcome and introduction Terregino Calogero and David Swayne	
14.10 h		The protective efficacy of different vaccine technologies in commercial layers of 8 weeks of age Nancy Beerens	
14.30 h		Efficacy of prime-boost vaccination in meat turkeys throughout a production cycle Francesco Bonfante	
14.50 h		Preliminary results from USDA on vaccine protection in poultry species David Suarez	
15.10 h		Vaccination of ducks with mRNA and subunit vaccines Beatrice Grasland	
15.30 h		Protection of DNA vaccination in layers up to 25 weeks of age and the efficacy of RNA vaccination in layer pullets Benedicte Lambrecht/Fiona Ingrao	
15.50 h		Q&A David Swayne, Timm Harder, Calogero Terregino & Panelists	
17.00 h			WELCOME RECEPTION

TUESDAY, 5 th SEPTEMBER 2023						
TUE 05.09		PLENARY HALL - SECOND FLOOR	AUDITORIUM VERDI - UDERGROUND FLOOR	SALIERI ROOM - UNDERGROUND FLOOR	VIVALDI ROOM - UNDERGROUND FLOOR	
		Chair Keynote Session: David Swayne				
9.00 h	9.30 h	09.00 - 09.30 KEYNOTE LECTURE Global Poultry Industry Outlook 2030: Big changes, big decisions MULDER NAN-DIRK				
9.30 h	10.00 h	09.30 - 10.00 KEYNOTE LECTURE Avian influenza: the only certainty is change MONNE ISABELLA				
10.00 h	10.30 h	10.00 - 10.30 OPENING CEREMONY				
10.30 h	11.00 h		10.30 - 11.00 Coffee Break			
			ORAL COMMUNICATIONS			
		Session - Avian Influenza and Newcastle disease	Session - Immunosuppressive diseases	Session - Zoonoses and public health	Session - Other bacterial diseases	
		Chairs: David Swayne, Calogero Terregino	Chairs: Caterina Lupini, Kostas Koutolis	Chairs: Claudia Hess, Andrea Laconi	Chairs: Anneke Feberwee, Català-Gregori Pablo	
		Characterization of a newly introduced genotype of A(H1N2) influenza virus in turkeys originating from swine in France. Chavoix Chloé ANSES Laboratory of Ploufragan-Plouzane-Niort	Update on the molecular epidemiology of infectious bursal disease virus in Western Europe in 2021-2022. Legnardi Matteo Department of Animal Medicine, Production and Health (MAPS), University of Padova, Legnaro (PD), Italy	Prevalence, Serotype and Associated Risk Factors of Poultry Salmonellosis in Africa: a Systemic Review and Meta-Analysis. Tadele Kabeta Yadessa Department of Pathobiology, Pharmacology and Zoological Medicine, Faculty of Veterinary Medicine, Ghent University, Merelbeke, Belgium	Focal Duodenal Necrosis: identification of Gram-negative rod-shaped bacteria in intestinal lesions. Tsai Yu-Yang Department of Population Health, College of Veterinary Medicine, The University of Georgia, Athens, GA 30602, United States	
11.00 h	11.15 h					
		Avian Influenza virus current situation in Egypt and strains replacement over the last decades. Mahmoud Naguib Uppsala University, Sweden and Animal Health Research Institute, Egypt	An update on the epidemiological situation of infectious bursal disease virus (IBDV) in Poland. Anna Pikula Department of Poultry Diseases, National Veterinary Research Institute, Al. Partyzantow 57, 24-100 Pulawy	The immunometabolic role of thymol on a macrophage-like cell line during a Salmonella Enteritidis challenge. Giovagnoni Giulia DIMEVET, University of Bologna, Ozzano dell'Emilia, Bologna, Italy	Molecular and serological characterization of Riemerella anatipestifer field strains isolated from poultry in Italy. Luca Bano Microbiology and Veterinary Diagnostic Laboratory, Istituto Zooprofilattico Sperimentale delle Venezie, Treviso, Italy	
11.15 h	11.30 h					
11.30 h	11.45 h	Incursions of highly pathogenic (HP) H5N1 clade 2.3.4.4b avian influenza in the United Kingdom between 2021 an+d 2023: a descriptive review of the epizootic in the poultry population. Falchieri Marco Virology Department, Animal and Plant Health Agency (APHA-Weybridge), Addlestone, Surrey KT15 3NB, United Kingdom	Evaluation of Data from Routine Infectious Bursal Disease Sampling in Southern Africa from 2013 to 2022. Costello Charles Phibro Animal Health	The paradox of salmonellae colonization in adult hens. Peter Groves School of Veterinary Science, The University of Sydney	Development of an experimental challenge model for riemerellosis in turkey and evaluation of the humoral immune response Luca Zandonà Microbiology and Veterinary Diagnostic Laboratory, Istituto Zooprofilattico Sperimentale delle Venezie, Treviso, Italy	
11.45 h	12.00 h		11.45 - 12.00 Break			
12.00 h	13.00 h	12.00 - 14.00 Lunch	SATELLITE SYMPOSIUM HIPRA		12.00 - 14.00 Lunch	
13.00 h	14.00 h		SATELLITE SYMPOSIUM ZOETIS			

TUE 05.09		PLENARY HALL - SECOND FLOOR	AUDITORIUM VERDI - UDERGROUND FLOOR	SALIERI ROOM - UNDERGROUND FLOOR	VIVALDI ROOM - UNDERGROUND FLOOR
		Chair Keynote Session: Nair Venugopal			
14.00 h	14.30 h	14.00 - 14.30 KEYNOTE LECTURE Update on Marek's disease: current situation and future perspectives GIMENO ISABEL			
14.30 h	15.00 h	14.30 - 15.00 KEYNOTE LECTURE Immunosuppressive diseases from the perspective of the chicken host RAUTENSCHLEIN SILKE			
15.00 h	15.30 h	15.00 - 15.30 Coffee Break			
ORAL COMMUNICATIONS					
		Session - Avian Influenza and Newcastle disease	Session - Immunosuppressive diseases	Session - Zoonoses and public health	Session - Parasites
		Chairs: Isabella Monne, Munir Iqbal	Chairs: Legnardi Matteo, Anna Pikula	Chairs: Peter Groves, Luca Borrelli	Chairs: Antonio Camarda, Blake Damer
15.30 h	15.45 h	Genetic and biological constraints for the evolution of atypical high pathogenicity avian influenza viruses in poultry Abdelwhab Elsayed M. Friedrich-Loeffler-Institut, Federal Research Institute for Animal Health, Greifswald-Insel Riems, Germany	The sudden epidemic, immune escape, vaccine development of the atypical infection of infectious bursal disease virus. Qi Xiaole Harbin Veterinary Research Institute, the Chinese Academy of Agricultural Sciences	Salmonella Infantis – the infection dynamic is influenced by the chicken line Drauch Victoria Clinic for Poultry and Fish Medicine, University of Veterinary Medicine Vienna, Austria	Vertical transmission of Salmonella enterica ser. Gallinarum across the life stages of Dermanyssus gallinae Antonio Camarda Department of Veterinary Medicine, University of Bari, Italy
15.45 h	16.00 h	Characterisation of different low pathogenic avian Influenzaviruses in tracheal organ cultures of chickens Bexter Frederik Clinic for Poultry, University of Veterinary Medicine Hannover, Hannover, Germany	Detection patterns and clinical signs caused by a novel pathotype of the infectious bursal disease virus in France. González García Guillermo Ceva Santé Animale, Libourne, France	Molecular typing of Salmonella enterica utilizing two different next generation sequencing methodologies Callison Scott Ceva Animal Health	IPM for the control of Poultry Red Mite: lessons learnt from 3 consecutive layer flocks Nijs Hanne Experimental Poultry Centre, Geel, Belgium
16.00 h	16.15 h	Diverse Infectivity, Transmissibility and Pathobiology of Clade 2.3.4.4 H5Nx Highly Pathogenic Avian Influenza Viruses in Chickens Swayne David U.S. National Poultry Research Center, Agricultural Research Service, U.S. Department of Agriculture, Athens, GA, 30605, USA	Molecular mechanism of host factor OASL regulating the replication of infectious bursal disease virus Wang Suyan Avian Immunosuppressive Diseases Division, State Key Laboratory of Veterinary Biotechnology, Harbin Veterinary Research Institute, The Chinese Academy of Agricultural Sciences, Harbin, PR China	Campylobacter jejuni and Campylobacter coli in Laying Hens Housed in Different Rearing Systems Gaia Casalino Department of Veterinary Medicine, University of Bari	Characterization of the molecular basis of acaricide resistance in Dermanyssus gallinae through RNA-seq analysis Nicola Pugliese Department of Veterinary Medicine, University of Bari, Italy
16.15 h	16.30 h	How low pathogenic Avian Influenza virus may induce systemic infection: alternate NI-associated virulence factor in field cases of H3/H6N1 Plesche Ronja Friedrich-Loeffler-Institut, Federal Research Institute for Animal Health, Greifswald-Insel Riems, Germany	Unveiling the mode of action of MB-1, a live hatchery vaccine against Infectious Bursal disease Virginie Loeb Phibro Animal Health	Salmonellosis Control in Poultry: Influence of Coccidia Vaccination on Colonization and Shed of Salmonella Heidelberg. Ivan Alvarado Merck Animal Health	In vitro acaricidal activity of silver nanoparticles (AgNPs) against the Poultry Red Mite (Dermanyssus gallinae) Georgios Sioutas Laboratory of Parasitology and Parasitic Diseases, Faculty of Health Sciences, School of Veterinary Medicine, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece
16.30 h	16.40 h	16.30 - 16.40 Break			

TUE 05.09	PLENARY HALL - SECOND FLOOR		ORAL COMMUNICATIONS			SALIERI ROOM - UNDERGROUND FLOOR	VIVALDI ROOM - UNDERGROUND FLOOR
	Session - Avian Influenza and Newcastle disease		Session - Neoplastic diseases	Session - Zoonoses and public health		Session - Parasites	
	Chairs: Isabella Monne, Munir Iqbal		Chairs: Giulia Mescolini, Yao Youngxiu	Chairs: Luca Bano, Gunther Antonissen		Chairs: Nicola Pugliese, Blake Damer	
16.40 h	Generation of RIG-I expressing chickens and their susceptibility to influenza A virus Sid Hicham <i>TUM School of Life Sciences, Weihenstephan, Department of Molecular Life Sciences, Reproductive Biotechnology, Freising, Germany</i>		Targeted gene editing in Marek's disease virus-transformed cell lines using CRISPR/Cas9 system Zhang Yaoyao <i>The Pirbright Institute, UK</i>	Efficacy of antibiotics to treat or prevent/control colibacillosis in broiler production: an amendment to a systematic review and meta-analysis Alessandra Picirillo <i>Department of Comparative Biomedicine and Food Science, University of Padova, Legnaro, Italy</i>		Prevalence and identification of Eimeria species in European turkey flocks Vereecken Monita <i>Huvepharma NV, Antwerp, Belgium</i>	
16.55 h	Investigating molecular markers influences the hemagglutination activity of the H9N2 avian influenza viruses Karunarathna Thusitha K. <i>PhD student at Royal Veterinary College, University of London and The Pirbright Institute in United Kingdom</i>		SH2 domain-containing protein tyrosine phosphatase-2 dephosphorylated by subgroup J avian leukosis virus via its Env efficiently promotes viral replication Li Tuofan <i>College of Veterinary Medicine, Yangzhou University, Yangzhou, Jiangsu, China</i>	Current status of antimicrobial use, Salmonella, Campylobacter and E. coli recovery and antimicrobial resistance in egg layers in Canada Agnes Agunos <i>Public Health Agency of Canada</i>		Anticoccidial Sensitivity Profiles of Eimeria in Commercial Turkey Flocks Lisa Bielke <i>Prestige Department of Poultry Science, North Carolina State University, Raleigh, USA</i>	
17.10 h	Development of an experimental challenge model using cold as a stress factor for Avian Influenza H9N2 in commercial broiler chickens Arbani Oumayma <i>Avian Pathology Unit, Department of Veterinary Pathology and Public Health, Hassan 2nd Institute of Agronomy and Veterinary Medicine, Rabat B.P. 6202, Morocco</i>		Transmission dynamic of field Marek's disease virus and CV1988 vaccine in a stacked-cage setting under experiment condition Wannaratana Suwarak <i>Faculty of Veterinary Medicine, Rajamangala University of Technology Tawan-ok, Thailand</i>	Strains of Enterococcus spp. isolated from osteomyelitis lesions in chickens and the barn environment are an important reservoir of antibiotic resistance genes Martine Boulianne <i>University of Montreal</i>		Anticoccidial effects of a thymol-based blend of botanicals on Eimeria tenella's morphology, invasion efficiency, and induced inflammation on primary chicken enterocytes Martina Felici <i>DIMEVET, University of Bologna, Ozzano dell'Emilia, Bologna, Italy</i>	
17.25 h	Selectively targeting antigens to chicken immune cells induces faster and stronger immunity in chickens with high levels of maternally derived antibodies. Iqbal Munir <i>The Pirbright Institute, UK</i>		Characteristics of Marek's disease in small-scale chicken flocks in Ontario, Canada Che Sunoh <i>Department of Pathobiology, Ontario Veterinary College, University of Guelph, Guelph, Ontario, Canada</i>	Consistent antimicrobial susceptibility of Ornithobacterium rhinotracheale isolated from field outbreaks in turkeys over the last 2 decades Claudia Hess <i>Clinic for Poultry and Fish Medicine, University of Veterinary Medicine Vienna, Austria</i>		The OOSCAN system, a compact laboratory workstation for routine chicken Eimeria oocyst counts using a robotic microscope and a deep learning algorithm Jaime Maldonado <i>HIPRA, Scientific Marketing Unit, Amer (Girona), Spain</i>	
17.40 h	Why are turkeys more vulnerable to mortality and morbidity caused by high pathogenicity H7 avian influenza viruses than chickens? Abdelwahab Elsayed M. <i>Friedrich-Loeffler-Institut, Federal Research Institute for Animal Health, Greifswald-Insel Riems, Germany</i>		Macroalgae extracts limits Marek's disease virus load and dissemination in vitro Bussy Frédéric <i>Olmix SA</i>	Assessing the in vitro ability of ESBL/pAmpC-producing Escherichia coli from broiler production to form biofilm Andrea Laconi <i>Department of Comparative Biomedicine and Food Science, University of Padova, Legnaro, Italy</i>		Clinical safety and efficacy of the in ovo co-administration of a new vaccine against avian coccidiosis (evanovo®) with a commercial vaccine against infectious bursal disease (gumbohatch®) in broilers under field conditions Tapolas-Verdera Marlona <i>HIPRA, Amer (Girona), Spain</i>	

WEDNESDAY, 6 th SEPTEMBER 2023						
PLENARY HALL - SECOND FLOOR		AUDITORIUM VERDI - UDERGROUND FLOOR	SALIERI ROOM - UNDERGROUND FLOOR	VIVALDI ROOM - UNDERGROUND FLOOR		
WED 06.09	Chair Keynote Session: Guillermo Zavala					
8.30 h	9.00 h	08.30 - 09.00 KEYNOTE LECTURE One size does not fit all: opportunities to enhance the sustainability of Global broiler production systems KYRIAZAKIS ILIAS				
9.00 h	9.30 h	09.00 - 09.30 KEYNOTE LECTURE Biosecurity: what works, what does not, what has been ignored and how to address it VAILLANCOURT JEAN-PIERRE				
9.30 h	10.30 h	09.30 - 10.30 AVIAN PATHOLOGY LECTURE Eimeria: the changing face of an old foe DAMER BLAKE				
10.30 h	11.00 h	10.30 - 11.00 Coffee Break				
ORAL COMMUNICATIONS						
Session - Avian Influenza and Newcastle disease		Session - Intestinal health	Session - Immunosuppressive diseases	Session - Poultry production, sustainability and welfare (Biosecurity)		
Chairs: Marco Falchieri, Fellahi Siham		Chairs: Robert Moore, Lonneke Verveide	Chairs: Maria Pia Franciosini, Liebhert Dieter	Chairs: Mathias Delpont, Jean Piere Vaillancourt		
Evaluation of vaccination strategies against avian influenza and Newcastle disease in poultry production networks: comparison of the EVACS tool application in several countries Claire Hautefeuille CIRAD, UMR ASTRE, Univ Montpellier, INRAE, Montpellier, France		Chicken enteroids: a novel method to measure effects of feed additives on intestinal health Lonneke Verveide Division of Immunology, The Roslin Institute and R(D)SVS, University of Edinburgh, U.K.	Epidemiological studies and molecular characterization of fowl adenovirus associated with chicken anemia virus co-infections in layer pullets in South India Gowthaman Vasudevan Poultry Disease Diagnosis and Surveillance Laboratory, Veterinary College and Research Institute Campus, Directorate of Centre for Animal Health Studies, Tamil Nadu Veterinary and Animal Sciences University Namakkal-637002, India	Efficacy of biosecurity measures to prevent or control colibacillosis in broiler production: a systematic review Giuditta Tili Department of Comparative Biomedicine and Food Science, University of Padova, Legnaro, Italy		
11.00 h	11.15 h	Differential Innate Immune Responses of Chicken 3D and 2D Enteroids to Salmonella Typhimurium Infection Kate Sutton Division of Immunology, The Roslin Institute and R(D)SVS, University of Edinburgh, UK	Turkey hemorrhagic enteritis live vaccination controls disease and field virus circulation: molecular, clinical and pathological evidence in field longitudinal studies Caterina Lupini Department of Veterinary Medical Sciences, University of Bologna, Ozzano dell'Emilia 40064, BO, Italy	How participatory approach can help to improve farmer's animal health management ? Leblanc-Maridor Mily Oniris, INRAE, BIOEPAR, 44300, Nantes		
11.15 h	11.30 h					
Newcastle Disease: do we need to revise vaccination strategies? A pilot study for vaccine strain selection based on genetic and antigenic characteristics Alessio Bortolami European Reference Laboratory for Avian Influenza and Newcastle Disease, Istituto Zooprofilattico Sperimentale delle Venezie, Legnaro, Italy						
11.30 h	11.45 h	In vivo gut health models Millecam Joske Poulpharm, Belgium	Molecular evolution and outbreak of new variant of Infectious Bursal Disease Virus isolated in Morocco. Drissi Touzani Charifa VETERINARY AND AGRONOMIC INSTITUTE HASSAN II	Risk-based biosecurity scoring tool for commercial indoor and free-range poultry production Amalraj Arthi Department of Internal Medicine, Reproduction and Population Medicine, Faculty of Veterinary Medicine, Ghent University, Belgium		
11.45 h	12.00 h	11.45 - 12.00 Break				
12.00 h	13.00 h	SATELLITE SYMPOSIUM MSD		12.00 - 14.00 Lunch		
13.00 h	14.00 h	SATELLITE SYMPOSIUM BOEHRINGER INGELHEIM				

WED 06.09		PLENARY HALL - SECOND FLOOR	AUDITORIUM VERDI - UDERGROUND FLOOR	SALIERI ROOM - UNDERGROUND FLOOR	VIVALDI ROOM - UNDERGROUND FLOOR
		Chair Keynote Session: Alessandro Scolari			
14.00 h	14.30 h	14.00 - 14.30 KEYNOTE LECTURE Bacterial diseases in a post-antibiotic era BANO LUCA			
14.30 h	15.00 h	14.30 - 15.00 KEYNOTE LECTURE Approaches to the reduction of antibiotic use in poultry production PARKER DANIEL			
15.00 h	15.30 h	15.00 - 15.30 Coffee Break			
ORAL COMMUNICATIONS					
		Session - Avian Influenza and Newcastle disease	Session - intestinal health	Session - Other bacterial diseases	Session - Poultry production, sustainability and welfare
		Chairs: Francesco Bonfante, Jean-Luc Guerin	Chairs: Ducatelle Richard, Ludovico Dipineto	Chairs: Antonio Camarda, Alessandra Piccirillo	Chairs: Jens Peter Christensen, Groves Peter John
		Modification of N-linked glycosylation pattern at sites 133 and 158 in hemagglutinin regulates the replication and pathogenicity of H7N9 avian influenza virus Gu Min College of Veterinary Medicine, Yangzhou University, Yangzhou, China	Cecal microbiota harbored by free-range chickens may potentially increase micronutrient biosynthesis and influence the reduction of emerging pathogens Luca Borrelli Department of Veterinary Medicine and Animal Productions, University of Naples Federico II, Naples, Italy	Experimental colibacillosis in laying hens and bacterial transmission into eggs monitored with lux-tagged E. coli Abdelhamid Mohamed Kamal Clinic for Poultry and Fish Medicine, Department for Farm Animals and Veterinary Public Health, University of Veterinary Medicine Vienna, Vienna, Austria	Characterization of emerging broiler breast myopathy, 'gaping' of Pectoralis minor in commercial broiler chickens Che Sunoh Department of Pathobiology, Ontario Veterinary College, University of Guelph, Guelph, Ontario, Canada
15.30 h	15.45 h				
15.45 h	16.00 h	Contribution of H9N2 low pathogenic avian influenza virus to the respiratory diseases complex in broilers in North Africa (2021-2022): the tip of the iceberg Jbenyeni Adam IHAP, Université de Toulouse, INRAE, ENVT, Toulouse, France	Effect of mannan-rich fraction supplementation on the intestinal microbiome of commercial laying hens positively. Corrigan Aoife Alltech Biotechnology	Safety of SG9R strain: evaluation of the risk of reversion to virulence Paiva Jacqueline Boldrin Research and Development Department, BioCamp Laboratories Ltda., Campinas, São Paulo, Brazil	New candling Life detection technology to reduce contamination level at hatch Boyer William Ceva Santé Animale
16.00 h	16.15 h	Molecular and phylogenetic analysis of HA gene of AI H9N2 viruses isolated from Moroccan poultry between 2021 and 2023. Fellahi Siham Avian Pathology Unit, Department of Veterinary Pathology and Public Health, Hassan 2nd Institute of Agronomy and Veterinary Medicine, Rabat B.P. 6202, Morocco	Single pre-hatch application of probiotic has long term effects on the cecal microbiome in Danish broilers and affects production performance positively. Poulsen Louise Ladefoged University of Copenhagen, Department of Veterinary and Animal Sciences	Safety and protective efficacy of Salmonella Pullorum spIC and rfaH deletion rough mutant as a live attenuated DIVA vaccine candidate Kang Xilong Jiangsu Key Laboratory of Zoonosis, Yangzhou University, 48 East Wenhui Road, Yangzhou, Jiangsu 225009, China	Impact of early post-hatch nutrition on chickens performance and health Gawel Andrzej Wroclaw University of Environmental and Life Sciences, Wroclaw, Poland
16.15 h	16.30 h	The untapped potential of plant produced VLP vaccines to control important viral diseases in poultry Abolnik Celia University of Pretoria	Cytokine and Toll-like receptor expressions of in vitro isolated intestinal epithelial cells of chicken infected with different virulent strains of fowl adenovirus serotype 4 (FAdV-4) Liebhart Dieter Clinic for Poultry and Fish Medicine, University of Veterinary Medicine Vienna, Austria	Longitudinal monitoring of the contamination by C. botulinum type D/C of broilers and the poultry house environment in a mixed farm Turbilin Vincent RESEAU CRISTAL - MCVET Conseil - 72300 SABLE SUR SARTHE, FRANCE	Evaluation of broiler chickens and laying hens vocalization as a measure of welfare Patrícia Soster de Carvalho Department of Pathobiology, Pharmacology and Zoological Medicine, Faculty of Veterinary Medicine, Ghent University, Merelbeke, Belgium and Poulpharm bvba, Izegem, Belgium
16.30 h	16.40 h	16.30 - 16.40 Break			

WED 06.09	ORAL COMMUNICATIONS					VIVALDI ROOM - UNDERGROUND FLOOR
PLENARY HALL - SECOND FLOOR		AUDITORIUM VERDI - UDERGROUND FLOOR	SALIERI ROOM - UNDERGROUND FLOOR		VIVALDI ROOM - UNDERGROUND FLOOR	
Session - Avian Influenza and Newcastle disease		Session - Intestinal health	Session - Zoonoses and public health	Session - Other viral diseases		
Chairs: Francesco Bonfante, Jean-Luc Guerin		Chairs: Ducatelle Richard, Luca Bano	Chairs: Alessandra Piccirillo, Sandra Servillo Navarro	Chairs: Michael Hess, KatarzynaDomanska-Blicharz		
the management of conflicting goals – food security, biosecurity and biodiversity. McMullin Paul <i>Poultry Health International</i>	Broiler performance is associated with intestinal villus length and intestinal inflammation: a field study Rysman Katrien <i>Livestock gut health team (LIGHT) Ghent, Department of Pathobiology, Pharmacology and Zoological Medicine, Faculty of Veterinary Medicine, Ghent University, Salisburylaan 133, 9820 Merelbeke, Belgium</i>	The ClassyFarm System: using business intelligence to reduce antimicrobial usage and improve antimicrobial stewardship in Italy Maisano Marco <i>Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna</i>	Roles of Fiber protein in the infection and pathogenesis of serotype 4 fowl adenovirus Ye Jianqiang <i>College of Veterinary Medicine, Yangzhou University, Yangzhou, Jiangsu 225009, China</i>	Recombinant fowl adenovirus (FAdV) fiber proteins induce a humoral and cellular immune response in specific pathogen-free chickens De Luca Carlotta <i>Clinic for Poultry and Fish Medicine, Department for Farm Animals and Veterinary Public Health, University of Veterinary Medicine, Vienna, Austria</i>		
16.40 h	16.55 h					
16.55 h	17.10 h	Risk assessment on the between-farm spread of avian influenza in the French broiler and layer production networks Claire Hautefeuille <i>CIRAD, UMR ASTRE, Univ Montpellier, INRAE, Montpellier, France</i>	MCFA reduce Salmonella Enteritidis colonization in broiler chickens by reducing bacterial adhesion and invasion efficiency in the gut Hermans David <i>Nutrition Sciences N.V., Drongen, Belgium</i>			
17.10 h	17.25 h	Characterization and quantification of wildlife visits to commercial poultry farms, assessed by camera traps in an area at high risk of introduction of avian influenza Giulia Graziosi <i>Department of Veterinary Medical Sciences, University of Bologna, Ozzano dell'Emilia 40064, BO, Italy</i>	Successful vaccination of layer pullets during the first days of life using a bivalent live vaccine against Salmonella Enteritidis and Salmonella Typhimurium Mueller-Dobiles Doris <i>Elanco Austria GmbH, Quartier Belvedere Central, Gertrude-Froehlich-Sandner-Strasse 3, 1100 Vienna, Austria</i>			
		The impact of avian influenza vaccination on zoonotic infections: lessons learned from the H7N9 avian influenza control Munir Iqbal <i>The Pirbright Institute, Pirbright, Woking, UK</i>	Occurrence and antibiotic resistance of Escherichia coli and Salmonella spp. in retail raw table eggs in Morocco El Ftouhy Fatima Zahra <i>Laboratory of Biochemistry, Environment and Agri-food, Faculty of Science and Technology, Mohammedia, University Hassan II, Casablanca.</i>			
17.25 h	17.40 h					
		The protective efficacy of homologous and heterologous prime-boost vaccination regimens against H5N1 HPAI in fattening turkeys Vianello Lucrezia <i>European Reference Laboratory for Avian Influenza and Newcastle Disease, Istituto Zooprofilattico Sperimentale delle Venezie, Legnaro, Italy</i>	Synthesis, Characterization and Antibacterial Activity Evaluation of Nanoparticles for Application in Controlling Multidrug-Resistant Bacteria in Poultry Farm Kafi MD. Abdul <i>Department of Microbiology and Hygiene, Bangladesh Agricultural University, Mymensingh-2202, Bangladesh.</i>			
17.40 h	17.55 h					

THURSDAY, 7 th SEPTEMBER 2023					
PLENARY HALL - SECOND FLOOR		AUDITORIUM VERDI - UDERGROUND FLOOR	SALIERI ROOM - UNDERGROUND FLOOR	VIVALDI ROOM - UNDERGROUND FLOOR	
THR 7.09	Chair Keynote Session: Francesco Prandini				
8.30 h	9.00 h	08.30 - 09.00 KEYNOTE LECTURE 100 Years of Newcastle Disease - Why and What is Next? ZAVALA GUILLERMO			
9.00 h	9.30 h	09.00 - 09.30 KEYNOTE LECTURE New trends in poultry vaccines HADJINOORMOHAMMADI AMIR			
9.30 h	10.30 h	09.30 - 10.30 Awards Ceremony & Hall of Honour			
10.30 h	11.00 h	10.30 - 11.00 Coffee Break			
ORAL COMMUNICATIONS					
Session - Respiratory diseases		Session - Other viral diseases	Session - Minor avian species	Session - Other bacterial diseases	
Chairs: Jordan Brian, Giovanni Franzo		Chairs: Antonio Lavazza, Holly Sellers	Chairs: Ludovico DiPineto, Daniel Parker	Chairs: Elena Circella, Beatrice Grafl	
	Glucose-regulated protein 78 facilitates infectious bronchitis virus attachment and infection Wu Qi <i>Ministry of Education Key Laboratory for Avian Preventive Medicine, Yangzhou University, Yangzhou, Jiangsu Province 225009, China; Institute of Veterinary Immunology & Engineering, Jiangsu Academy of Agricultural Sciences, Nanjing 210014, China.</i>	Avian reovirus variants; applied versus theoretical research Gallardo Rodrigo <i>University of California, Davis School of Vet Med</i>	Isolation, molecular detection and antimicrobial susceptibility of bacterial pathogens from respiratory system of apparently healthy ducks Khatun MST. Minara <i>Department of Microbiology and Hygiene, Bangladesh Agricultural University, Mymensingh-2202, Bangladesh</i>	Cytokine gene expression and phenotyping of immune cells indicate a local immunostimulatory effect in pullets following aerosol vaccination with irradiated avian pathogenic Escherichia coli Bagheri Sina <i>Clinic for Poultry and Fish Medicine, Department for Farm Animals and Veterinary Public Health, University of Veterinary Medicine, Vienna, Austria</i>	
11.00 h	11.15 h				
	Molecular diagnosis of infectious bronchitis (ib) in euram countries: emerging field challenges and monitoring strategies Romero Tejeda Aurora <i>X-Ovo Limited, Thomson Cooper 3, Dunfermline, UK</i>	Isolation and molecular characterization of Avian Reoviruses from poorly performing broiler flocks in Belgium. Christiaens Isaura <i>Poulpharm, Belgium</i>	Encephalitis in partridges linked to a novel flaviviridae-related pegivirus reproduced experimentally Matos Miguel <i>Clinic for Poultry and Fish Medicine, University of Veterinary Medicine Vienna, Vienna, Austria</i>	Clinical outcome and kinetics of some immune parameters after an experimental subcutaneous E. coli infection of broiler chickens Jonare Liv <i>Department of Clinical Sciences, Swedish University of Agricultural Sciences, Box 7054, 750 07 Uppsala, Sweden</i>	
11.15 h	11.30 h				
	Computational Spike Protein Structures of Infectious Bronchitis Virus (IBV) Provide Clues For Predictions of Neutralizing Epitopes and/or Vaccine Development Bouwman Kim <i>Poultry Diagnostic and Research Center, Department of Population Health, The University of Georgia</i>	Avian hepatitis E virus is widespread among laying hens and broiler breeders in Morocco: Clinico-pathological investigations and molecular characterization Kichou Faouzi <i>Department of Veterinary Pathology and Public Health, Hassan 2nd Institute of Agronomy and Veterinary Medicine, B.P. 6202, Rabat, Morocco</i>	Identification of an emerging coronavirus associated with an enteric syndrome in French red-legged partridge (Alectoris rufa) flocks Pinson Matthieu <i>ONIRIS, Dept. of Herd Health, Route de Gachet, Atlanpole - La Chantrerie, France</i>	Usage of WGS for interpretation of characteristics from, and discrimination between, pathogenic and commensal Escherichia coli isolated from Dutch poultry Buter Rianne <i>Royal GD, P.O. Box 9, 7400 AA Deventer, The Netherlands</i>	
11.30 h	11.45 h				
11.45 h	12.00 h	11.45 - 12.00 Break			
12.00 h	13.00 h	12.00 - 14.00 Lunch		12.00 - 14.00 Lunch	
13.00 h	14.00 h				

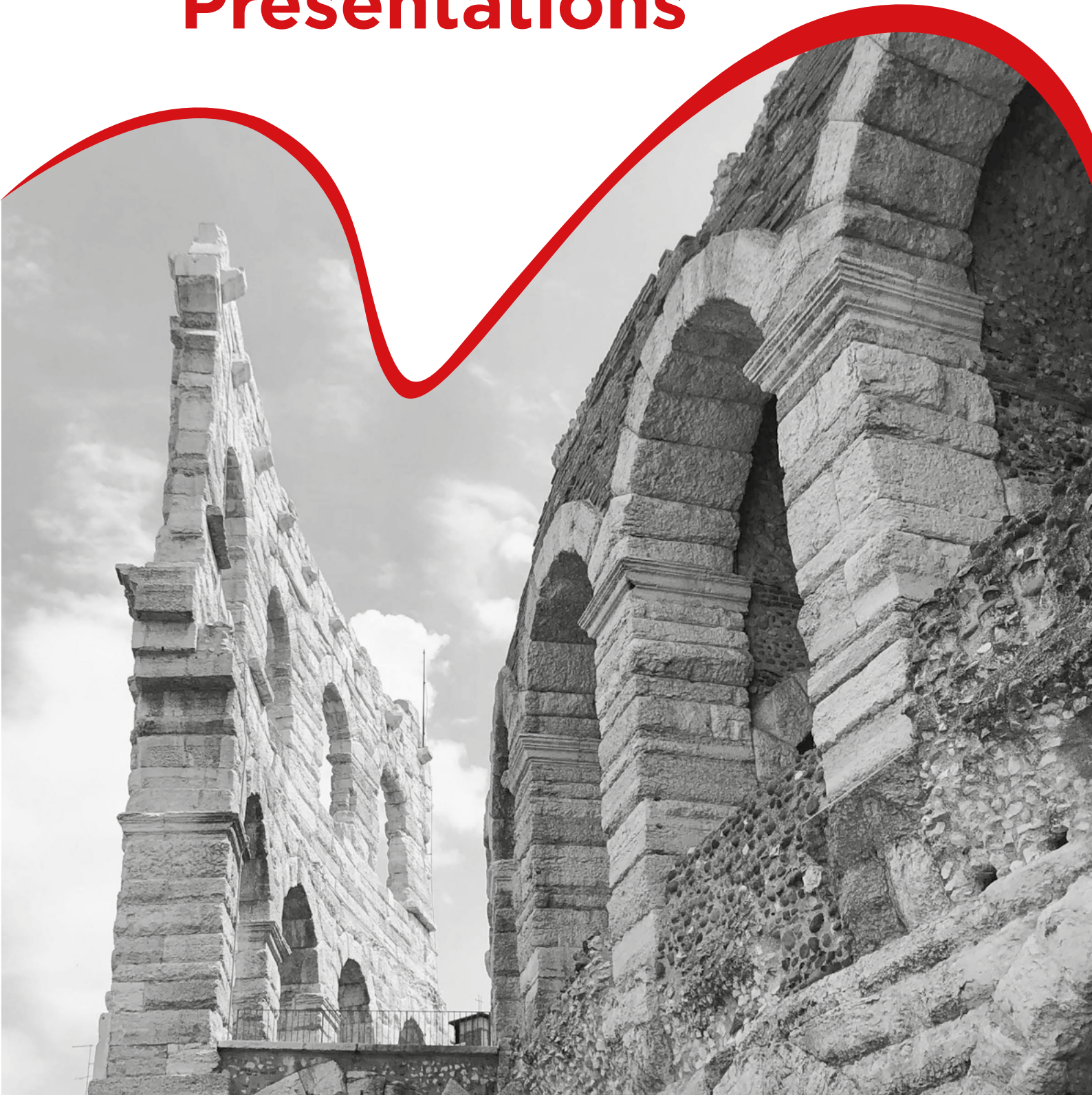
THR 7.09		PLENARY HALL - SECOND FLOOR	AUDITORIUM VERDI - UDERGROUND FLOOR	SALIERI ROOM - UNDERGROUND FLOOR	VIVALDI ROOM - UNDERGROUND FLOOR
		Chair Keynote Session: Salvatore Catania			
14.00 h	14.30 h	14.00 - 14.30 KEYNOTE LECTURE When everything becomes bigger: big data for big poultry production FRANZO GIOVANNI			
14.30 h	15.20 h				
15.20 h	15.50 h	14.30 - 15.20 WVPA - AGM	15.20 - 15.50 <i>Coffee Break</i>		
		Session - Avian Influenza and Newcastle disease	Session - Respiratory diseases	Session - Immunosuppressive disease	Session - Other bacterial diseases
		Chairs: Christian Grund, Celia Abolinik	Chairs: Ganapathy Kannan, Śmiattek Marcin	Chairs: Silke Rautenschlein, Ana Moreno Martin	Chairs: Matthijs Mieke, Salvatore Catania
15.50 h	16.05h	Monitoring biosecurity compliance in poultry production: an overview from seven European countries Delpont Mattias <i>IHAP, Université de Toulouse, INRAE, ENVT, Toulouse, France</i>	Evaluation of potential administration routes of self-amplifying mRNA in chickens using a reporter vaccine Snoeck Janne <i>Department of Pathobiology, Pharmacology and Zoological Medicine, Faculty of Veterinary Medicine, Ghent University, 9820, Merelbeke, Belgium</i>	Evaluation of the effectiveness and the replication profile of two IBD vaccines on commercial pullet farm in France Andrea Delvecchio <i>Boehringer Ingelheim Animal Health, France</i>	Efficacy of aerosol delivered irradiated Escherichia coli to elicit broad protection against colibacillosis in chickens Paudel Surya <i>Clinic for Poultry and Fish Medicine, Department for Farm Animals and Veterinary Public Health, University of Veterinary Medicine Vienna, Vienna, Austria</i>
16.05 h	16.20 h	Alteration of upper respiratory tract microbiome following H9N2 avian influenza virus infection in chicken Chrzastek Klaudia <i>Animal and Plant Health Agency (APHA); Pathology & Animal Sciences, United Kingdom</i>	Production of Plant-Expressed Virus-Like Particle Vaccines against Infectious Bronchitis Coronavirus and Vaccine Efficacy in Chickens Sepotokele Kamogelo M. <i>Faculty of Veterinary Science, University of Pretoria, South Africa</i>	Efficacy of an HVT-ND-IBD and Live Attenuated Vaccines against field IBD variants affecting performance in commercial broilers in the United States Mendoza-Reilley Alexandra <i>Merck Animal Health, Madison, New Jersey, United States</i>	Protective capacity of a hyperimmune serum against infection with Enterococcus cecorum Silberborth Amanda <i>Clinic for Poultry, University of Veterinary Medicine Hannover, Hannover, Germany</i>
16.20 h	16.35 h	Immunogenicity and protective efficacy of a multivalent herpesvirus vectored vaccine rHVT-H9-F against H9N2 low pathogenic avian influenza in chicken Ingrao Fiona <i>Sciensano</i>	Efficacy and immunity of live attenuated infectious bronchitis vaccines administered by gel, spray, and ocular methods in commercial broilers Ganapathy Kannan <i>Institute of Infection, Veterinary & Ecological Sciences, University of Liverpool, Cheshire, UK</i>	EFFICACY OF DIFFERENT VACCINATION PROGRAMMES INCLUDING IMMUNE COMPLEX IBD VACCINES AGAINST VIBDV CHALLENGE IN BROILER CHICKENS Duklong Pattamaporn <i>HIPRA, Amer (Girona), Spain</i>	Systemic load of Enterococcus cecorum after oral infection of day-old broilers Maarten De Gussem <i>Vetworks BVBA, Knockstraat 36, 9880 Poeke, Belgium and Faculty of Veterinary medicine, University of Ghent, Salisburylaan 133, 9820, Merelbeke</i>
16.35 h	16.50 h	Clinical, gross and histopathological findings of domestic ducks naturally infected with high pathogenicity avian influenza virus H5N1 clade 2.3.4.4b in the UK between 2021-2022 Furman Natalia <i>Animal and Plant Health Agency (APHA); Pathology & Animal Sciences</i>	Protection against Infectious Bronchitis Virus Vaccine Recombinants and Chicken-Selected Vaccine Subpopulations Toro Haroldo <i>Auburn University</i>	Impact of HVT-IBD on Field Efficacy Against Infectious Bursal Disease and on Broiler and Layer Livability, and Performance, Following In ovo and Subcutaneous Administration in the United States and Europe Hartman Angela <i>Zoetis VMRD, Kalamazoo USA</i>	Development of molecular assays for the analysis of genetic relationships of Mycoplasma iowae Buni Dominika <i>Veterinary Medical Research Institute, Budapest, Hungary</i>
16.50 h	17.05 h	Efficacy of a reverse-genetics derived H5N1 (rgH5N1) inactivated vaccine against Highly Pathogenic Avian Influenza Clade 2.3.4.4b Frizzo Da Silva Letícia <i>Zoetis VMRD Kalamazoo USA.</i>	Recombinant avian infectious bronchitis viruses with heterologous spike genes protect against challenge Kraemer-Kuehl Annika <i>Boehringer Ingelheim Vetmedica GmbH, Ingelheim, Germany</i>	AviPro® IBD Xtreme efficacy of protection against novel reassortant vIBDV strain Dmytro Radko <i>Elanco Deutschland GmbH, Bad Homburg, Germany</i>	Characterization and differentiation of Salmonella Gallinarum and Salmonella Pullorum by MALDI-TOF Kuczkowski Maciej <i>Department of Epizootiology and Clinic of Bird and Exotic Animals, Wrocław University of Environmental and Life Sciences</i>
17.05 h	17.20 h	A RVT-F vaccine protects chickens and reduces shedding against an Indian Genotype XIII Newcastle disease virus challenge Christophe Cazaban <i>Ceva Animal Health</i>	A Detailed Analysis of Infectious Bronchitis Virus Vaccine Takes and Surveillance in Commercial Broilers in the United States Jordan Brian <i>Poultry Diagnostic and Research Center, Department of Population Health, The University of Georgia</i>	Experience of Displacement of Variant IBD Virus (SHG 19-like) in Commercial Broiler farms in Malaysia using Immune-Complex IBD vaccine Jean Leorat <i>Ceva Animal Health, Libourne, France</i>	A Salmonella Pullorum outbreak with nervous signs in adult layers and epidemiological outbreak investigation using Whole Genome Sequencing Feberwee Anneke <i>Royal GD, Deventer, the Netherlands</i>
17.20 h	17.35 h	Efficacy of a Vector HVT-ND Vaccine Against Challenge of Velogenic Newcastle Disease Virus Genotype VII.2 in SPF Chickens in Malaysia Omar Abdul Rahman <i>Faculty of Veterinary Medicine, Universiti Putra Malaysia, Malaysia</i>	Detection of infectious bronchitis virus (IBV) and infectious bursal disease virus (IBDV) through air sampling Dalsgaard Kamilla <i>AeroCollect A/S</i>	An innovative protocol to evaluate the replication of a vector hvt-ibd vaccine by detecting a specific molecular pattern from feather samples of vaccinated chickens Coven Fethiye <i>Izmir/Bornova Veterinary Control Institute, Turkiye</i>	Bacteriophage Isolation and Application for Salmonella Control in Broilers Chansiripomchai Niwat <i>Faculty of Veterinary Science, Chulalongkorn University, Bangkok, THAILAND</i>

FRIDAY, 8 th SEPTEMBER 2023					
PLENARY HALL - SECOND FLOOR		AUDITORIUM VERDI - UDERGROUND FLOOR	SALIERI ROOM - UNDERGROUND FLOOR	VIVALDI ROOM - UNDERGROUND FLOOR	
FRI 8.09	Chairs Keynote Session: Amir HADJINOORMOHAMMADI				
	9.00 h	9.30 h	Infectious bronchitis, getting the best out of vaccinations DE WIT SJAAK	09.00 - 09.30 KEYNOTE LECTURE	
	9.30 h	10.00 h			
	10.00 h	10.30 h			
	10.30 h	11.00 h			
10.30 - 11.00 Coffee Break					
ORAL COMMUNICATIONS					
Session - Respiratory diseases		Session - Other bacteriale diseases		Session - Non infectious disorders	Session - Minor avian species and clinical cases
Chairs: Claudia Maria Tucciarone, Toro Haroldo		Chairs: Chris John Morrow, Ferguson-Noel Naola		Chairs: Alessandro Scolari, Paul McMullin	Chairs: Davide Giovanardi, Alexandra Schock
11.00 h	11.15 h	The influence of maternally derived antibodies on protection against aMPV/A infection in TRT vaccinated turkeys Śmiatek Marcin Department of Poultry Diseases, Faculty of Veterinary Medicine, University of Warmia and Mazury, Olsztyn, POLAND	Efficacy of vaccines to prevent or control colibacillosis in the broiler production: a systematic review and meta-analysis De Carvalho Ferreira Helena C. Flanders Research Institute for Agriculture, Fisheries and Food, Mellebeke, Belgium	Keel bone fractures in broiler breeders: is palpation a reliable diagnostic method? Kittelsen Kåthe Kittelsen Animalia- the Norwegian Meat and Poultry Research	A field study on Mycoplasma gallisepticum and EDS 76: effect on egg production, hatchability and chick quality Lopez Juan MSD Animal Health
11.15 h	11.30 h	MONITORING OF INFECTIOUS BRONCHITIS VACCINATION IN BROILERS BY RT-PCR AT HATCHERIES IN SPAIN DURING 2022 Giner Alberto Zoetis Spain	The Safety of Mycoplasma gallisepticum Vaccine Strains in Turkeys Ferguson-Noel Naola University of Georgia	The egg-laying process might be a contributing factor for the development of keel bone fractures in laying hens Thoenfer Ida Veterinary Clinical Microbiology, Department of Veterinary and Animal Sciences, University of Copenhagen, Denmark	Field cases of Hemorrhagic Hepatopathy Syndrome Hodorowicz Wojciech Phibro Animal Health
11.30 h	11.45 h	Infectious laryngotracheitis virus (ILT) genotyping assay by Multiplex PCR and high throughput MinION sequencing Luo Yi-Chen Department of Population Health, College of Veterinary Medicine, Poultry Diagnostic & Research Center, University of Georgia, Athens, GA	Erysipelothrix rhusiopathiae infections in geese: the characteristics of isolates. Bobrek Kamila Wrocław University of Environmental and Life Sciences, Wrocław, Poland	Histomorphological characterization of keel bone maturation and keel bone fractures in laying hens Gretarsson Páll Norwegian University of Life Sciences	Epidemiological investigation in an outbreak of botulism occurred in commercial quails (coturnix coturnix) Palazzolo Luca Microbiology and Veterinary Diagnostic Laboratory, Istituto Zooprofilattico Sperimentale delle Venezie, Treviso, Italy
11.45 h	12.00 h	Infectious laryngotracheitis virus detection and seroprevalence among non-vaccinated chicken farms in Jordan Al-Natour Mohammad Department of Veterinary Pathology and Public Health, Faculty of Veterinary Medicine, Jordan University of Science and Technology, P.O. Box. 3030, Irbid 22110, Jordan.	Multiple locus variable-number tandem repeat analysis for differentiation between mycoplasma synoviae live vaccine strain and wild strains collected on field: preliminary results. Marco Bottinelli Mycoplasma Unit – SCTI-Verona, WOAH Reference Laboratory for Avian mycoplasmosis, Istituto Zooprofilattico Sperimentale delle Venezie, via Bovolino 1C, 37060 - Buttapietra (VR), Italy.	Pathological Effects of Feeding Aflatoxins Contaminated Feed on Immune Status and Reproductive Performance of Juvenile White Leghorn Males and its Mitigation with *- Tocopherol and Moringa oleifera Saleemi Muhammad Kashif Department of Pathology, University of Agriculture Faisalabad Pakistan	Causes of mortality in Danish laying hens in non-cage housing systems Lund Vibe Pedersen Veterinary Clinical Microbiology, Department of Veterinary and Animal Sciences, University of Copenhagen, Denmark
12.00h	13.00 h	12.00 - 13.00 CLOSING CEREMONY			





Oral Presentations





S1 - RESPIRATORY DISEASES

S1-O1 - GLUCOSE-REGULATED PROTEIN 78 FACILITATES INFECTIOUS BRONCHITIS VIRUS ATTACHMENT AND INFECTION

Q. Wu, A. Qin, J. Ye, K. Qian, H. Shao, M. Mei

S1-O2 - MOLECULAR DIAGNOSIS OF INFECTIOUS BRONCHITIS (IB) IN EURAM COUNTRIES: EMERGING FIELD CHALLENGES AND MONITORING STRATEGIES

A. Romero Tejeda, M. Andreopoulou, K. El-Ghazzar, H. Roh, F. Vargas, C. Longoni, A. Drago, A. Fortin, F. Bruno, M. Varotto, R. Currie

S1-O3 - COMPUTATIONAL SPIKE PROTEIN STRUCTURES OF INFECTIOUS BRONCHITIS VIRUS (IBV) PROVIDE CLUES FOR PREDICTIONS OF NEUTRALIZING EPITOPES AND/OR VACCINE DEVELOPMENT

K. Bouwman, M. Jackwood, B. Jordan

S1-O4 - EVALUATION OF POTENTIAL ADMINISTRATION ROUTES OF SELF-AMPLIFYING MRNA IN CHICKENS USING A REPORTER VACCINE

J. Snoeck, K. Haems, A. Garmyn, N. Sanders

S1-O5 - PRODUCTION OF PLANT-EXPRESSED VIRUS-LIKE PARTICLE VACCINES AGAINST INFECTIOUS BRONCHITIS CORONAVIRUS AND VACCINE EFFICACY IN CHICKENS

K.M. Sepotokele, C. Abolnik, M.M. O'Kennedy

S1-O6 - EFFICACY AND IMMUNITY OF LIVE ATTENUATED INFECTIOUS BRONCHITIS VACCINES ADMINISTERED BY GEL, SPRAY, AND OCULONASAL METHODS IN COMMERCIAL BROILERS

M. Al-Rasheed, B. Ball, P. Subramaniam, K. Ganapathy

S1-O7 - PROTECTION AGAINST INFECTIOUS BRONCHITIS VIRUS VACCINE RECOMBINANTS AND CHICKEN-SELECTED VACCINE SUBPOPULATIONS

H. Toro, C. Cuadrado, C. Breedlove, V. Van Santen, K. Joiner

S1-O8 - RECOMBINANT AVIAN INFECTIOUS BRONCHITIS VIRUSES WITH HETEROLOGOUS SPIKE GENES PROTECT AGAINST CHALLENGE

T.M. Stephan, R. Neumann, I. Koeneke, T. Albers, A. Ott, D. Bergmann, E. Mundt, H. Philipp, A. Kraemer-Kuehl

S1-O9 - A DETAILED ANALYSIS OF INFECTIOUS BRONCHITIS VIRUS VACCINE TAKES AND SURVEILLANCE IN COMMERCIAL BROILERS IN THE UNITED STATES

B. Jordan

S1-O10 - DETECTION OF INFECTIOUS BRONCHITIS VIRUS (IBV) AND INFECTIOUS BURSAL DISEASE VIRUS (IBDV) THROUGH AIR SAMPLING

K. Dalsgaard, K. B. Andersen, C.B. Mathiesen, J. Skov

S1-O11 - THE INFLUENCE OF MATERNALLY DERIVED ANTIBODIES ON PROTECTION AGAINST AMPV/A INFECTION IN TRT VACCINATED TURKEYS

M. Śmiałek, J. Kowalczyk, B. Tykałowski, A. Koncicki

S1-O12 - MONITORING OF INFECTIOUS BRONCHITIS VACCINATION IN BROILERS BY RT-PCR AT HATCHERIES IN SPAIN DURING 2022

A. Giner, T. Bru, J. Dickson

S1-O13 - INFECTIOUS LARYNGOTRACHEITIS VIRUS (ILTIV) GENOTYPING ASSAY BY MULTIPLEX PCR AND HIGH THROUGHPUT MINION SEQUENCING

Y. Luo, A. Skipper, S. Riblet, K. Young, J. Stanton, P. Wang, Z. Xian, M. García

S1-O14 - INFECTIOUS LARYNGOTRACHEITIS VIRUS DETECTION AND SEROPREVALENCE AMONG NON-VACCINATED CHICKEN FARMS IN JORDAN

M. Al-Natour, M. Ababneh, S. Al-Saad, W. Hananeh



S2 - NEOPLASTIC DISEASES

S2-O1 - TARGETED GENE EDITING IN MAREK'S DISEASE VIRUS-TRANSFORMED CELL LINES USING CRISPR/CAS9 SYSTEM

Y. Zhang, W. Li, N. Tang, J. Luo, T. Man, V. Reddy, Y. Sadigh, K. Moffat, V. Nair, Z. Shen, Y. Yao

S2-O2 - SH2 DOMAIN-CONTAINING PROTEIN TYROSINE PHOSPHATASE-2 DEPHOSPHORYLATED BY SUBGROUP J AVIAN LEUKOSIS VIRUS VIA ITS ENV EFFICIENTLY PROMOTES VIRAL REPLICATION

T. Li, J. Xie, X. Yao, J. Zhang, C. Li, D. Ren, L. Li, Q. Xie, H. Shao, A. Qin, J. Ye

S2-O3 - TRANSMISSION DYNAMIC OF FIELD MAREK'S DISEASE VIRUS AND CVI988 VACCINE IN A STACKED-CAGE SETTING UNDER EXPERIMENT CONDITION

S. Wannaratana, J. Sasipreeyajan, S. Pornsukarom, A. Thontiravong

S2-O4 - CHARACTERISTICS OF MAREK'S DISEASE IN SMALL-SCALE CHICKEN FLOCKS IN ONTARIO, CANADA

S. Che, M. Guerin, M. Brash, C. Varga, L. Susta

S2-O5 - MACROALGAE EXTRACTS LIMITS MAREK'S DISEASE VIRUS LOAD AND DISSEMINATION IN VITRO

F. Bussy, S. Rémy, P. Nyvall Collén, L. Trapp-Fragnet

S3 - IMMUNOSUPPRESSIVE DISEASES

S3-O1 - UPDATE ON THE MOLECULAR EPIDEMIOLOGY OF INFECTIOUS BURSAL DISEASE VIRUS IN WESTERN EUROPE IN 2021-2022

M. Legnardi, G. Franzo, C.M. Tucciarone, F. Poletto, G. Dauphin, B. Le Tallec, M. Lopes, K. Koutoulis, M. Cecchinato

S3-O2 - AN UPDATE ON THE EPIDEMIOLOGICAL SITUATION OF INFECTIOUS BURSAL DISEASE VIRUS (IBDV) IN POLAND

A. Piłkuła, A. Lisowska, K. Domanska-Blicharz
C. Costello, M. Maleta, O. Blanco

S3-O3 - EVALUATION OF DATA FROM ROUTINE INFECTIOUS BURSAL DISEASE SAMPLING IN SOUTHERN AFRICA FROM 2013 TO 2022

C. Costello, M. Maleta, O. Blanco

S3-O4 - THE SUDDEN EPIDEMIC, IMMUNE ESCAPE, VACCINE DEVELOPMENT OF THE ATYPICAL INFECTION OF INFECTIOUS BURSAL DISEASE VIRUS

W. Zhang, L. Fan, Y. Wang, Y. Gao, X. Qi

S3-O5 - DETECTION PATTERNS AND CLINICAL SIGNS CAUSED BY A NOVEL PATHOTYPE OF THE INFECTIOUS BURSAL DISEASE VIRUS IN FRANCE

G. González García, M. Pizarro Díaz, M. Legnardi, C. Chimienti, R. Pluchon, E. Moreau, J. Léorat, J. Sarabia Fragoso

S3-O6 - MOLECULAR MECHANISM OF HOST FACTOR OASL REGULATING THE REPLICATION OF INFECTIOUS BURSAL DISEASE VIRUS

S. Wang, X. Qi, Y. Gao

S3-O7 - UNVEILING THE MODE OF ACTION OF MB-1, A LIVE HATCHERY VACCINE AGAINST INFECTIOUS BURSAL DISEASE

L. Virginie, W. Yossi, A. Aderajew, A. Finger

S3-O8 - EPIDEMIOLOGICAL STUDIES AND MOLECULAR CHARACTERIZATION OF FOWL ADENOVIRUS ASSOCIATED WITH CHICKEN ANEMIA VIRUS CO-INFECTIONS IN LAYER PULLETS IN SOUTH INDIA

V. Gowthaman, T. Gopala Krishna Murthy, G. Suresh Kumar, C. Soundararajan



S3-09 - TURKEY HEMORRHAGIC ENTERITIS LIVE VACCINATION CONTROLS DISEASE AND FIELD VIRUS CIRCULATION: MOLECULAR, CLINICAL AND PATHOLOGICAL EVIDENCE IN FIELD LONGITUDINAL STUDIES

C. Lupini, V. Benedetti, C. Giudice, G. Quaglia, M. Tecilla, G. Mescolini, G. Ortali, F. Prandini, E. Catelli

S3-010 - MOLECULAR EVOLUTION AND OUTBREAK OF NEW VARIANT OF INFECTIOUS BURSAL DISEASE VIRUS ISOLATED IN MOROCCO

C. Drissi Touzani, L. Rasoamiadanaa, N. Touil, M. El Houadfi, S. Fellahi, S. Fellahi

S3-011 - EVALUATION OF THE EFFECTIVENESS AND THE REPLICATION PROFILE OF TWO IBD VACCINES ON COMMERCIAL PULLET FARM IN FRANCE

A. Delvecchio, F. Prandini, T. Delquigny, S. Lemiere

S3-012 - EFFICACY OF AN HVT-ND-IBD AND LIVE ATTENUATED VACCINES AGAINST FIELD IBD VARIANTS AFFECTING PERFORMANCE IN COMMERCIAL BROILERS IN THE UNITED STATES

A. Mendoza-Reilly, H. Sellers, A. Montoya, I. Alvarado

S3-013 - EFFICACY OF DIFFERENT VACCINATION PROGRAMMES INCLUDING IMMUNE COMPLEX IBD VACCINES AGAINST VVIBDV CHALLENGE IN BROILER CHICKENS

M. De-Soler-Pinart, M. Baratelli, P. Duklong, M. Busquet, M. Woodward, N. Charoenvisal, P. Areeraksakul, J. Sasipreeyajan

S3-014 - IMPACT OF HVT-IBD ON FIELD EFFICACY AGAINST INFECTIOUS BURSAL DISEASE AND ON BROILER AND LAYER LIVABILITY, AND PERFORMANCE, FOLLOWING IN OVO AND SUBCUTANEOUS ADMINISTRATION IN THE UNITED STATES AND EUROPE

A. Hartman, M. Bosserd, M. Boutier, A. Brown, J. Dickson, T. Fernandes, A. Giner, A. Heinz, A. Lloyd, K. Segovia, E. Snellings, R. Vila

S3-015 - AVIPRO® IBD XTREME EFFICACY OF PROTECTION AGAINST NOVEL REASSORTANT VVIBDV STRAIN

R. Dmytro, A. Ali, B. Marcos, D.W. Sjaak De Wit, W. Dekkers

S3-016 - EXPERIENCE OF DISPLACEMENT OF VARIANT IBD VIRUS (SHG 19-LIKE) IN COMMERCIAL BROILER FARMS IN MALAYSIA USING IMMUNE-COMPLEX IBD VACCINE

K.X. Lau, D. Mohan, J. Lee, M. Paniago, J. Leorat

S3-017 - AN INNOVATIVE PROTOCOL TO EVALUATE THE REPLICATION OF A VECTOR HVT-IBD VACCINE BY DETECTING A SPECIFIC MOLECULAR PATTERN FROM FEATHER SAMPLES OF VACCINATED CHICKENS

F. Coven, F. Prandini, M. Bilgic

S4 - INTESTINAL HEALTH

S4-01 - CHICKEN ENTEROIDS: A NOVEL METHOD TO MEASURE EFFECTS OF FEED ADDITIVES ON INTESTINAL HEALTH

K. Sutton, J. Mitchell, D. Borowska, L. Lahaye, E. Santin, L. Vervelde

S4-02 - DIFFERENTIAL INNATE IMMUNE RESPONSES OF CHICKEN 3D AND 2D ENTEROIDS TO SALMONELLA TYPHIMURIUM INFECTION

K. Sutton, T. Nash, D. Borowska, S. Sives, P. Vohra, M. Stevens, L. Vervelde

S4-03 - IN VIVO GUT HEALTH MODELS

J. Millecam, B. Maertens, L. Vandenberghe, A. Devolder, E. Labeeuw, S. Doner, A. Dedeurwaerder, J. De Smet, M. De Gussem

S4-04 - CECAL MICROBIOTA HARBORED BY FREE-RANGE CHICKENS MAY POTENTIALLY INCREASE MICRONUTRIENT BIOSYNTHESIS AND INFLUENCE THE REDUCTION OF EMERGING PATHOGENS

L. Borrelli, L. Varriale, L. Coretti, B. Desmond Green, T.P. Russo, A. Minichino, A. Santaniello, A. Pace, F. Lembo, A. Fioretti, L. Dipineto

**S4-O5 - EFFECT OF MANNAN-RICH FRACTION SUPPLEMENTATION ON THE INTESTINAL MICROBIOME OF COMMERCIAL LAYING HENS**

A. Corrigan, R. Murphy

S4-O6 - SINGLE PRE-HATCH APPLICATION OF PROBIOTIC HAS LONG TERM EFFECTS ON THE CECAL MICROBIOME IN DANISH BROILERS AND AFFECTS PRODUCTION PERFORMANCE POSITIVELY

K.R. Villumsen, D. Sandvang, G. Vestergård, M. Dencker, M.S.R. Olsen, J. Juul, L.L. Poulsen

S4-O7 - CYTOKINE AND TOLL-LIKE RECEPTOR EXPRESSIONS OF IN VITRO ISOLATED INTESTINAL EPITHELIAL CELLS OF CHICKEN INFECTED WITH DIFFERENT VIRULENT STRAINS OF FOWL ADENOVIRUS SEROTYPE 4 (FADV-4)

K. Strebinger, T. Mitra, M. Hess, D. Liebhart

S4-O8 - BROILER PERFORMANCE IS ASSOCIATED WITH INTESTINAL VILLUS LENGTH AND INTESTINAL INFLAMMATION: A FIELD STUDY

K. Rysman, V. Eeckhaut, E. Goossens, R. Ducatelle, F. Van Immerseel

S4-O9 - CORRELATING THE PRESENCE OF ENTERIC VIRUSES IN BROILER FLOCKS WITH PERFORMANCE AND BIOSECURITY PARAMETERS

B. Grafl, B. Gaussmann, I. Prokofieva, M. Hess

S4-O10 - CHITINASES, KEY ENZYMES DURING EARLY COLONISATION OF CLOSTRIDIUM PERFRINGENS DURING NECROTIC ENTERITIS IN BROILERS

E. Dierick, C. Callens, R. Ducatelle, F. Van Immerseel, E. Goossens

S4-O11 - A NEW MULTIVALENT VACCINE PROTECTS BROILERS AGAINST NECROTIC ENTERITIS

R.J. Moore, M.M. Manohar, B.E. Campbell, A.L. Keyburn, A.K. Walduck

S4-O12 - INVESTIGATION OF THE EFFECT OF CONTINUOUS WATER DISINFECTION ON THE PERFORMANCE AND CAMPYLOBACTER JEJUNI COUNTS IN EXPERIMENTALLY CHALLENGED BROILER CHICKS

T. Mantzios, V. Tsiouris, K. Kiskinis, V. Economou, E. Petridou, G.A. Papadopoulos, A. Tsitsos, A. Patsias, I. Giannenas, I. Koutsotolis, P. Fortomaris

S5 - AVIAN INFLUENZA AND NEWCASTLE DISEASE**S5-O1 - CHARACTERIZATION OF A NEWLY INTRODUCED GENOTYPE OF A(H1N2) INFLUENZA VIRUS IN TURKEYS ORIGINATING FROM SWINE IN FRANCE**

C. Chavoix, F. Briand, K. Louboutin, C. Guillemoto, R. Busson, F. Souchaud, I. Pierre, M. Cherbonnel-Pansart, C. Martenot, P. Massin, M. Amelot, Y. Blanchard, S. Herve, G. Simon, A. Scoizec, S. Le Bouquin-Leneveu, R. Le Goffic, E. Niqueux, A. Schmitz, B. Grasland

S5-O2 - AVIAN INFLUENZA VIRUS CURRENT SITUATION IN EGYPT AND STRAINS REPLACEMENT OVER THE LAST DECADES

N. Mahmoud, T.A.C. The Ahri-Nrc-Swe Consortium

S5-O3 - INCURSIONS OF HIGHLY PATHOGENIC (HP) H5N1 CLADE 2.3.4.4B AVIAN INFLUENZA IN THE UNITED KINGDOM BETWEEN 2021 AND 2023: A DESCRIPTIVE REVIEW OF THE EPIZOOTIC IN THE POULTRY POPULATION.

M. Falchieri, S. Reid, A. Byrne, C. Ross, R. Hansen, V. Coward, J. Seekings, A. Nunez, F. Lean, N. Furman, J. James, I. Brown, A. Banyard

S5-O4 - GENETIC AND BIOLOGICAL CONSTRAINTS FOR THE EVOLUTION OF ATYPICAL HIGH PATHOGENICITY AVIAN INFLUENZA VIRUSES IN POULTRY

E.M. Abdelwhab, M. Gischke, D. Scheibner, D. Palme, M. Kuryshko, M.R. Knittler, A. Pohlmann, C. Luttermann, A. Breithaupt, T.C. Mettenleiter, J. Veits



S5-O5 - CHARACTERISATION OF DIFFERENT LOW PATHOGENIC AVIAN INFLUENZAVIRUSES IN TRACHEAL ORGAN CULTURES OF CHICKENS

F. Bexter, L. Vervelde, S. De Wit, S. Rautenschlein

S5-O6 - DIVERSE INFECTIVITY, TRANSMISSIBILITY AND PATHOBIOLOGY OF CLADE 2.3.4.4 H5NX HIGHLY PATHOGENIC AVIAN INFLUENZA VIRUSES IN CHICKENS

J. Kwon, K. Bertran, D. Lee, M.F. Criado, L. Killmaster, D. Swayne

S5-O7 - HOW LOW PATHOGENIC AVIAN INFLUENZA VIRUS MAY INDUCE SYSTEMIC INFECTION: ALTERNATE N1-ASSOCIATED VIRULENCE FACTOR IN FIELD CASES OF H3/H6N1.

R. Piesche, A. Breithaupt, J. Schön, V. Pfisterer, D. Höper, J. Stech, M. Beer, T. Harder, T. Arnold, C. Grund

S5-O8 - GENERATION OF RIG-I EXPRESSING CHICKENS AND THEIR SUSCEPTIBILITY TO INFLUENZA A VIRUS

H. Sid, T. Von Heyl, R. Guabiraba, S. Sives, L. Vervelde, S. Trapp, B. Schusser

S5-O9 - INVESTIGATING MOLECULAR MARKERS INFLUENCES THE HEMAGGLUTINATION ACTIVITY OF THE H9N2 AVIAN INFLUENZA VIRUSES

T.K. Karunarathna, S. Bhat, J. Sadeyen, P. Chang, J.E. Sealy, M. Qureshi, M. Iqbal

S5-O10 - DEVELOPMENT OF AN EXPERIMENTAL CHALLENGE MODEL USING COLD AS A STRESS FACTOR FOR AVIAN INFLUENZA H9N2 IN COMMERCIAL BROILER CHICKENS

O. Arbani, F. Salamat, M. Ducatez, M. El Houadfi, F. Kichou, S. Fellahi

S5-O11 - SELECTIVELY TARGETING ANTIGENS TO CHICKEN IMMUNE CELLS INDUCES FASTER AND STRONGER IMMUNITY IN CHICKENS WITH HIGH LEVELS OF MATERNALLY DERIVED ANTIBODIES.

A. Shrestha, J. Sadeyen, M. Iqbal

S5-O12 - WHY ARE TURKEYS MORE VULNERABLE TO MORTALITY AND MORBIDITY CAUSED BY HIGH PATHOGENICITY H7 AVIAN INFLUENZA VIRUSES THAN CHICKENS?

D. Scheibner, C. Blaurock, R. Ulrich, A. Breithaupt, T.C. Mettenleiter, E.M. Abdelwhab

S5-O13 - EVALUATION OF VACCINATION STRATEGIES AGAINST AVIAN INFLUENZA AND NEWCASTLE DISEASE IN POULTRY PRODUCTION NETWORKS: COMPARISON OF THE EVACS TOOL APPLICATION IN SEVERAL COUNTRIES

C. Hautefeuille, G. Dauphin, M. Peyre

S5-O14 - NEWCASTLE DISEASE: DO WE NEED TO REVISE VACCINATION STRATEGIES? A PILOT STUDY FOR VACCINE STRAIN SELECTION BASED ON GENETIC AND ANTIGENIC CHARACTERISTICS

A. Bortolami, I. Shittu, G. Franzo, S. Maniero, A. Fortin, M. Varotto, C. Nwosuh, J. Bakam, M. Muhammad, V. Panzarin, A. Pastori, A. Schivo, M. Cecchinato, C. Terregino, F. Bonfante, I. Monne, A. Fusaro

S5-O15 - PROTECTION OF LAYERS AGAINST NDV CHALLENGE WITH “EXOTIC” GENOTYPE 2.XIV

O. Asala, I. Moharam, J. Schön, C. Meseko, P. Abdu, C. Grund

S5-O16 - MODIFICATION OF N-LINKED GLYCOSYLATION PATTERN AT SITES 133 AND 158 IN HEMAGGLUTININ REGULATES THE REPLICATION AND PATHOGENICITY OF H7N9 AVIAN INFLUENZA VIRUS

M. Gu, Y. Yan, J. Gu, K. Cai, S. Chen, X. Liu

S5-O17 - CONTRIBUTION OF H9N2 LOW PATHOGENIC AVIAN INFLUENZA VIRUS TO THE RESPIRATORY DISEASES COMPLEX IN BROILERS IN NORTH AFRICA (2021-2022): THE TIP OF THE ICEBERG

A. Jbenyeni, G. Croville, C. Cazaban, J. Guerin

S5-O18 - MOLECULAR AND PHYLOGENETIC ANALYSIS OF HA GENE OF AI H9N2 VIRUSES ISOLATED FROM MOROCCAN POULTRY BETWEEN 2021 AND 2023.

O. Arbani, F. Salamat, M. Ducatez, M. El Houadfi, S. Fellahi

S5-O19 - THE UNTAPPED POTENTIAL OF PLANT PRODUCED VLP VACCINES TO CONTROL IMPORTANT VIRAL DISEASES IN POULTRY

C. Abolnik, M.M. O’Kennedy, K.M. Sepotokele, T. Smith

**S5-O20 - H5N1 HIGHLY PATHOGENIC AVIAN INFLUENZA: TOWARDS THE MANAGEMENT OF CONFLICTING GOALS - FOOD SECURITY, BIOSECURITY AND BIODIVERSITY.**

P. McMullin

S5-O21 - RISK ASSESSMENT ON THE BETWEEN-FARM SPREAD OF AVIAN INFLUENZA IN THE FRENCH BROILER AND LAYER PRODUCTION NETWORKS

C. Hautefeuille, F. Munoz, G. Dauphin, M. Peyre, F. Goutard

S5-O22 - CHARACTERIZATION AND QUANTIFICATION OF WILDLIFE VISITS TO COMMERCIAL POULTRY FARMS, ASSESSED BY CAMERA TRAPS IN AN AREA AT HIGH RISK OF INTRODUCTION OF AVIAN INFLUENZA

G. Graziosi, C. Lupini, F. Dalla Favera, G. Martini, G. Dosa, G. Garavini, G. Trevisani, A. Mannelli, E. Catelli

S5-O23 - THE IMPACT OF AVIAN INFLUENZA VACCINATION ON ZONOTIC INFECTIONS: LESSONS LEARNED FROM THE H7N9 AVIAN INFLUENZA CONTROL

P. Chang, J. Sadeyen, S. Bhat, M. Iqbal

S5-O24 - THE PROTECTIVE EFFICACY OF HOMOLOGOUS AND HETEROLOGOUS PRIME-BOOST VACCINATION REGIMENS AGAINST H5N1 HPAI IN FATTENING TURKEYS

L. Vianello, A. Bortolami, L. Baraldo, E. Mazzacan, D. Facco, S. Maniero, C. Terregino, F. Bonfante

S5-O25 - MONITORING BIOSECURITY COMPLIANCE IN POULTRY PRODUCTION: AN OVERVIEW FROM SEVEN EUROPEAN COUNTRIES

M. Delpont, J. Dewulf, A. Zbikowski, A. Lefort, N. Rousset, A. Spaans, A. Amalraj, G. Tilli, A. Piccirillo, A. Devesa, S. Sevilla-Navarro, H. Van Meirhaeghe, L. Kovacs, J. Guerin, M.C. Paul

S5-O26 - ALTERATION OF UPPER RESPIRATORY TRACT MICROBIOME FOLLOWING H9N2 AVIAN INFLUENZA VIRUS INFECTION IN CHICKEN

T. Davis, H. Shelton, K. Chrzastek

S5-O27 - IMMUNOGENICITY AND PROTECTIVE EFFICACY OF A MULTIVALENT HERPESVIRUS VECTORED VACCINE RHVT-H9-F AGAINST H9N2 LOW PATHOGENIC AVIAN INFLUENZA IN CHICKEN

F. Ingraio, F. Rauw, G. Dauphin, B. Lambrecht

S5-O28 - CLINICAL, GROSS AND HISTOPATHOLOGICAL FINDINGS OF DOMESTIC DUCKS NATURALLY INFECTED WITH HIGH PATHOGENICITY AVIAN INFLUENZA VIRUS H5N1 CLADE 2.3.4.4B IN THE UK BETWEEN 2021-2022

N. Furman, A. Shock, F. Lean, A. Vitores-Gomez, S. Reid, M. Falchieri, A. Banyard, I. Brown, A. Nunez

S5-O29 - EFFICACY OF A REVERSE-GENETICS DERIVED H5N1 (RGH5N1) INACTIVATED VACCINE AGAINST HIGHLY PATHOGENIC AVIAN INFLUENZA CLADE 2.3.4.4.B

L. Frizzo Da Silva, J. Rodenberg, T. Brown, S. Dawson

S5-O30 - A RHVT-F VACCINE PROTECTS CHICKENS AND REDUCES SHEDDING AGAINST AN INDIAN GENOTYPE XIII NEWCASTLE DISEASE VIRUS CHALLENGE

S. Kumar, M. Limaye, M. Paniago, M.S. Sandikli, C. Cazaban

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K. Bobrek, A. Gawel

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H. Sellers, E. Linnemann, V. Gauthiersloan, N. Davis-Fields, S. Ullah

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B. Felföldi, T. Tatar-Kis, E. Kovacs, I. Kiss

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I. Christiaens, R. Rahayu, S. Doner, S. Verhaeghe, M. De Gussem

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K.K. Kittelsen, I. Toftaker, F. Tahamtani, R.O. Moe, I. Thoenner, G. Vasdal

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A. Schiavone, N. Pugliese, I. Siddique, R. Samarelli, M. Saleh, R. Lombardi, E. Circella, A. Camarda

S11-O2 - IPM FOR THE CONTROL OF POULTRY RED MITE: LESSONS LEARNT FROM 3 CONSECUTIVE LAYER FLOCKS

H. Nijis, T. Van Hertem, G. Chiron, J. Walton, M. Chezaud, K. Bartley, A.J. Nisbet, A.H. Vargas Navarro, C. Daem, M.E.A. Benarbia, T. Norton, L. Roy O, N. Sleenckx



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A. Schiavone, N. Pugliese, D.R. Price, S.T. Burgess, I. Siddique, E. Circella, A.J. Nisbet, A. Camarda

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M. Felici, B. Tugnoli, F. Ghiselli, D. Baldo, C. Ratti, A. Piva, E. Grilli

S11-08 - THE OOSCAN SYSTEM, A COMPACT LABORATORY WORKSTATION FOR ROUTINE CHICKEN EIMERIA OOCYST COUNTS USING A ROBOTIC MICROSCOPE AND A DEEP LEARNING ALGORITHM

J. Maldonado, M. Blanch, F. De-Tierra, S. Eduard, G. Lijs

S11-09 - CLINICAL SAFETY AND EFFICACY OF THE IN OVO CO-ADMINISTRATION OF A NEW VACCINE AGAINST AVIAN COCCIDIOSIS (EVANOVO®) WITH A COMMERCIAL VACCINE AGAINST INFECTIOUS BURSAL DISEASE (GUMBOHATCH®) IN BROILERS UNDER FIELD CONDITIONS

M. Tapiolas-Verdera, M. Pagès-Bosch, E. Sebastià, J. Molist-Badiola, R. March-Massós, D. Sabaté-Elias

S12 - MINOR AVIAN SPECIES

S12-01 - ISOLATION, MOLECULAR DETECTION AND ANTIMICROBIAL SUSCEPTIBILITY OF BACTERIAL PATHOGENS FROM RESPIRATORY SYSTEM OF APPARENTLY HEALTHY DUCKS

M.M. Khatun, H. Banu, M.A. Islam, M.A. Islam

S12-02 - ENCEPHALITIS IN PARTRIDGES LINKED TO A NOVEL FLAVIVIRIDAE-RELATED PEGIVIRUS REPRODUCED EXPERIMENTALLY

M. Matos, N. Viloux, B. Jaskulska, I. Bilic, M. Hess

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S12-04 - A FIELD STUDY ON MYCOPLASMA GALLISEPTICUM AND EDS 76: EFFECT ON EGG PRODUCTION, HATCHABILITY AND CHICK QUALITY

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W. Hodorowicz, U. Ashash

S12-06 - EPIDEMIOLOGICAL INVESTIGATION IN AN OUTBREAK OF BOTULISM OCCURRED IN COMMERCIAL QUAILS (COTURNIX COTURNIX)

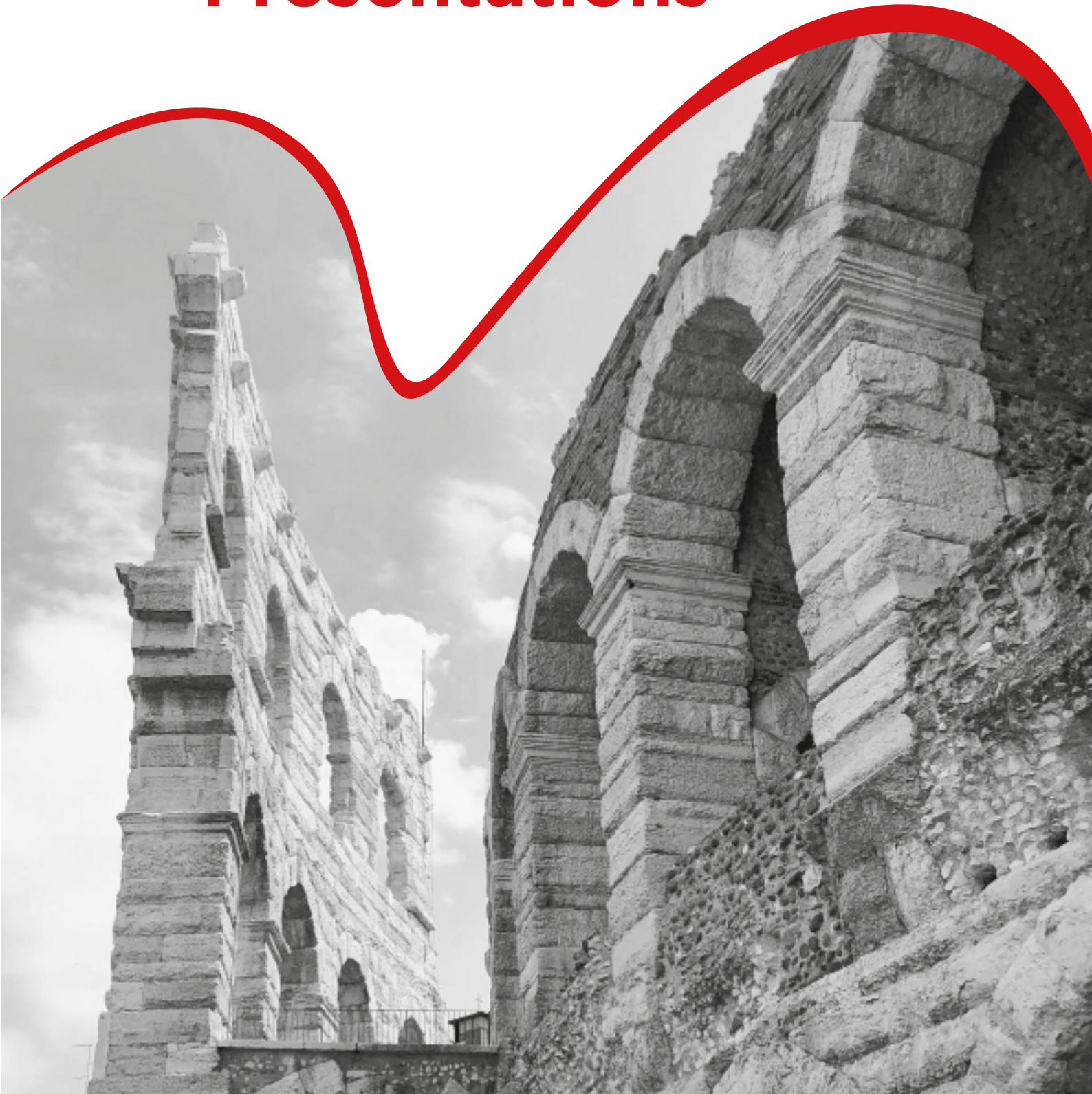
L. Palazzolo, B. Cordioli, A. Camarda, M. Cornaggia, A. Di Castri, I. Drigo, A. Rizzardi, G. Streparola, M. Garbuio, L. Viel, L. Bano

S12-07 - CAUSES OF MORTALITY IN DANISH LAYING HENS IN NON-CAGE HOUSING SYSTEMS

V.P. Lund, I. Thoenfner, F.S. Scharling, L.R. Nielsen, J.P. Christensen



Poster Presentations





S1 - RESPIRATORY DISEASES

S1-P1 - A SURVEILLANCE FOR FOUR YEARS OF INFECTIOUS LARYNGOTRACHEITIS VIRUS IN POULTRY FLOCKS WITH RESPIRATORY DISORDERS IN TURKEY

I.B. Müştak, H.K. Müştak, S. Ertas

S1-P2 - APPLICATION OF MS PCR AND MS DIVA-PCR IN THE MONITORING OF LIVE MYCOPLASMA SYNOVIAE VACCINATION (STRAIN MS-H) IN BROILER BREEDER FARM, MALAYSIA

D. Choe, K. Yip, W. Loh, M. Choew Kong, C. Morrow

S1-P3 - ASSOCIATIVE USE OF LIVE ATTENUATED VACCINES AGAINST AVIAN INFECTIOUS BRONCHITIS AVISHIELD® IB H120 AND AVISHIELD® IB GI-13

L. špirić, K. Huić Babić, G.J. Boelm

S1-P4 - AVIAN HERPESVIRUSES IN WILD BIRDS FROM GOIAS, BRAZIL

A.C. Araújo, T.D. Pereira E Silva, L. Morais Nascimento Silva, M.V.D.S. De Moraes, L.M. Bueno, A. Greatti, J.C.B. Bueno, C.W. Arns, F.J.F. Sant'Ana, M.C.S. Fioravanti, H.L. Ferreira

S1-P5 - AVIAN METAPNEUMOVIRUS SUBGROUP C PHOSPHOPROTEIN SUPPRESSES TYPE I INTERFERON PRODUCTION BY BLOCKING INTERFERON REGULATORY FACTOR 3 NUCLEAR TRANSLOCATION

L. Hou, Y. Shi, J. Liu

S1-P6 - CAN IMMUNOTHERAPY BE A THERAPEUTIC TOOL OF TOMORROW?

S. Nassik, S. Derqaoui, Y. Bidoudan, K. Atrassi, M. Traoré, F. Elftouhy, S. Nacer, M. Hussine, A. Essaleh Bennani, A. El Khantour

S1-P7 - CHARACTERISATION OF INFECTIOUS LARYNGOTRACHEITIS VIRUS (ILTV) FIELD ISOLATES FROM SWITZERLAND - A NON-VACCINATING COUNTRY

S. Betschart, B. Sigrist, S. Albin, N. Wolfrum

S1-P8 - CIRCULATION OF AVIAN METAPNEUMOVIRUS SUBTYPE B IN POLAND

K. Domanska-Blicharz, A. Lisowska, J. Opolska, K. Krajewski, M. Krupa, M. śmiałek

S1-P9 - CIRCULATION OF INFECTIOUS BRONCHITIS VIRUS AND AVIAN METAPNEUMOVIRUS ON BROILERS FARMS IN SPAIN.

R. Sánchez Llorente, J.L. Criado Rius, I. Cabrer Carvajal, J. Grau Pla, M. Solé Berga, M. Busquet Solé

S1-P10 - CLINICAL VALIDATION OF A MULTIPLEX REAL TIME RT-PCR ASSAY FOR SUBTYPE A AND B AVIAN METAPNEUMOVIRUS DETECTION AND DIFFERENTIATION

C.M. Tucciarone, M. Cecchinato, M. Legnardi, F. Poletto, M. Angelichio, D. Zammerini

S1-P11 - CO-ADMINISTRATION OF CHICKEN EMBRYO ORIGIN (CEO) VACCINES OF INFECTIOUS LARYNGOTRACHEITIS VIRUS (ILTV) WITH CHICKEN IL-2 ALLEVIATED THE SIDE-EFFECTS OF CEO BY AN ENHANCED CYTOTOXIC LYMPHOCYTE RESPONSE

H. Xiaoli, L. Jiaqi, Z. Zhou, Y. Xinjie, S. Shaobin

S1-P12 - COMPARISON OF DIFFERENT SAMPLING TECHNIQUES FOR DETECTING PATHOGENIC MICROORGANISMS IN POULTRY

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A. Brown, A. Heinz, J. Rodenberg, D. Vancraeynest Zoetis VMRD, Kalamazoo, USA

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E. Marzo, G. Bech, M. Woodward, E. Sebastia

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A. El-Shemy, M.M. Amer

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L. Ferreira, K. Bafundo, L. Gomez

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P. Baeza, T. Badillo, D. Brana, M.A. Díaz ù

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T. Nguyen ¹, H. Tong ¹, M. Paniago ², J. Lee ², M.S. Sandikli ³



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C. Visser¹

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J. Sasipreeyajan¹, N. Sirikobkul², M. Choew Kong³, N. Charoenvisal⁴, S. Rong⁵

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H. A. Sultan¹, K. M. Mahgoub², L. Tantawi³, C. Mah⁴, S. Rong⁵, S. Talaat¹

S5-P10 - EFFICACY OF A TURKEY HERPESVIRUS VECTORED VACCINE AGAINST REPRESENTATIVES OF DIFFERENT GENETIC CLUSTERS OF AVIAN INFLUENZA VIRUS H9N2 SUBLINEAGE G1

T. Tatar-Kis¹, E. Walkó-Kovács¹, Z. Homonnay², B. Felföldi¹, T. Mató¹, C. Cazaban³, I. Kiss¹

S5-P11 - EFFICACY OF IMOPEST INACTIVATED ND VACCINE AGAINST CHALLENGE WITH NEWCASTLE DISEASE VIRUS GENOTYPE VII.1.1 IN COMMERCIAL BROILER CHICKENS

K.E. Hassan¹

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W. Elfeil¹, A. Makahleh², M. Elsayed³, H.S. Yong², M. Elkady⁴

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A. Puigredon Fontanet¹, M. Baratelli¹, P. Duklong¹, W. Boonsathitanan¹, J.L. Criado Rius¹, N. Charoenvisal², P. Areeraksakul², J. Sasipreeyajan²

S5-P14 - EFFICACY OF VAXXITEK HVT+IBD+ND VACCINE AGAINST VVNDV CHALLENGE IN COMMERCIAL BROILER CHICKENS.

R. Soontravanich¹, P. Tiamtumwong¹, R. Chaichana¹, T. Songserm²

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Z. Wan¹, W. Jiang¹, Q. Xie¹, T. Li¹, H. Shao¹, J. Zhang², A. Qin¹, J. Liu³, J. Ye¹

S5-P16 - EVALUATE THE EFFECT OF ADDING IMMUNOSTIMULANT AGENTS IN THE OIL ADJUVANT OF INACTIVATED H9N2 VACCINE FOLLOWING CHALLENGE IN SPF AND COMMERCIAL CHICKS

K.E. Hassan¹, M. Houta², A. Ali¹, M. Zain El-Abideen³, M. Elkady⁴, M. Elsayed², W. Elfeil⁵, W. Kilany⁶

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T. Kumosani¹, E. Barbour¹, S. Yaghtmoor²

S5-P18 - EVALUATION OF THE BIOSECURITY ON FINNISH BROILER FARMS BY BIOCHECK.UGENT®

H. Nauholz¹, I. Toppari¹

S5-P19 - EVALUATION OF THE DIVA STRATEGY BY USING H9N2 LPAI INFECTION IN LEBANON AND VACCINATION WITH RECOMBINANT VACCINE RHVT ND-H9 AS A FIELD MODEL FOR THE H5N1 HPAI VACCINATION.

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S5-P20 - EVALUATION OF THE EFFICACY OF TWO DIFFERENT VACCINATION PROGRAMS FOR AVIAN INFLUENZA H9N2 USING AN INACTIVATED AND A VECTORED HVT-ND-H9 VACCINE IN BROILER CHICKENS

A. Delvecchio¹, R. Taoufik¹, A. Oumaya², F. Asma², S. Lemiere¹, S. Fellahi²

S5-P21 - EVALUATION OF THE PERFORMANCE AND SEROLOGICAL RESPONSE OF COMMERCIAL BROILERS VACCINATED WITH RECOMBINANT FP-ND AND TRIVALENT VHVT+IBD+ND UNDER FIELD CONDITIONS

A. Gado, A. Geneedy, A. Elbestawy

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S5-P23 - EVALUATION OF THE RETURN ON INVESTMENT FROM THE USE OF AN INACTVATED VACCINE BASED ON AVIAN INFLUENZA HAEMAGGLUTININ H5 SUBUNIT, COMBINED WITH NEWCATLE DISEASE VIRUS, IN FIELD CONDITIONS IN EGYPT

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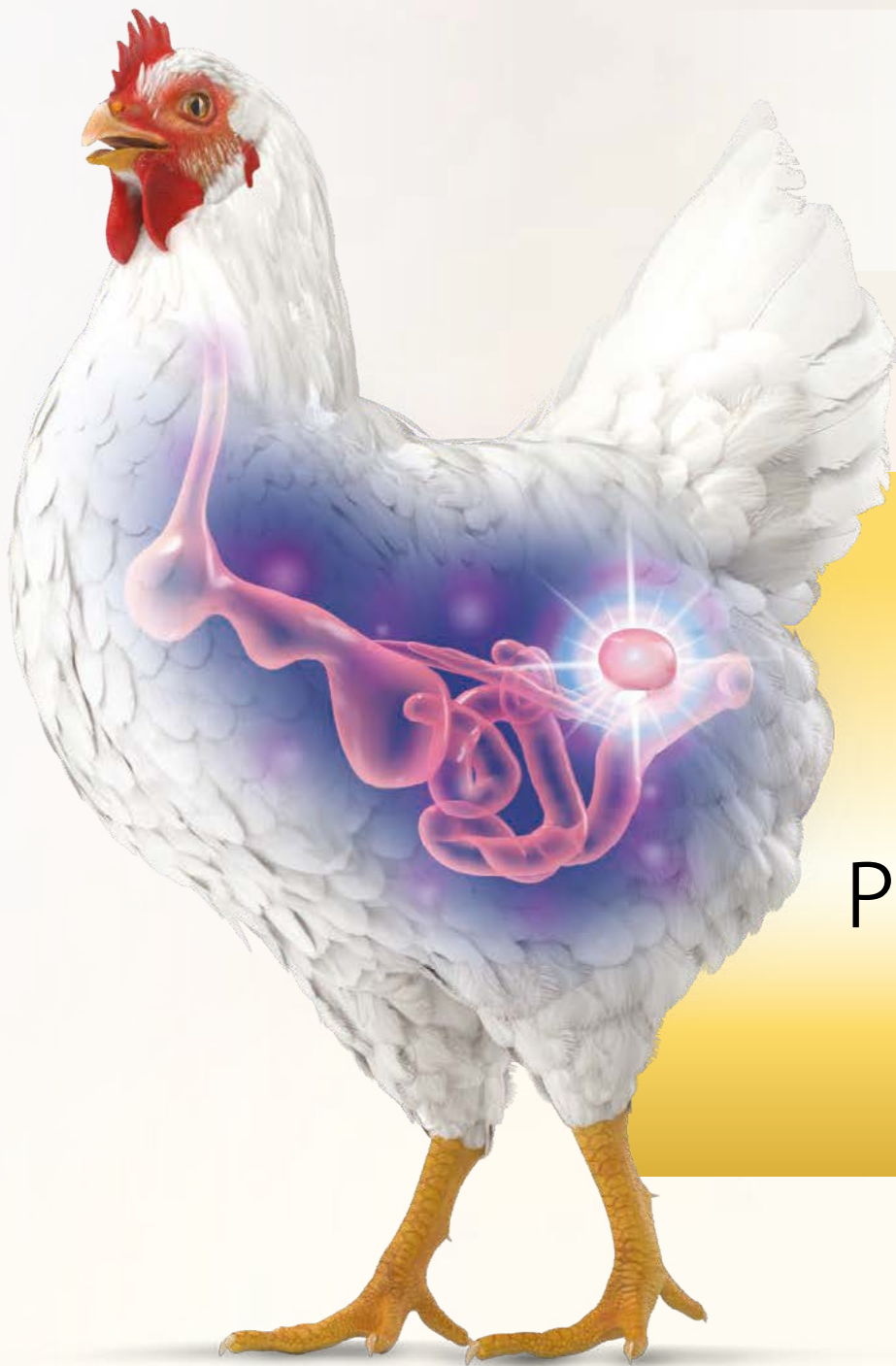
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EVANOVO®. Live attenuated vaccine against coccidiosis for in ovo administration. **COMPOSITION:** Active substances per dose (0,006 mL): *Eimeria acervulina*, strain 044, 598 - 809*; *Eimeria maxima*, strain 013, 352 -476*; *Eimeria praecox*, strain 007, 235 - 317*; *Eimeria tenella*, strain 004, 221 - 299*. *Number of sporulated oocysts derived from precocious attenuated lines of coccidia. **SOLVENT:** HIPRAHATCH®. **INDICATIONS:** For the active immunisation of chickens to reduce clinical signs (diarrhoea), intestinal lesions and oocysts output associated with coccidiosis caused by *Eimeria acervulina*, *Eimeria maxima* & *Eimeria praecox*, and for the reduction of clinical signs, intestinal lesions and oocysts output associated with coccidiosis caused by *Eimeria tenella*. **SPECIES:** Chicken embryonated eggs. **ROUTE(S) AND METHOD OF ADMINISTRATION:** In ovo administration. Administer one single injection of 0.05 or 0.1 mL of the diluted vaccine into each chicken egg at 18 days of embryonation. An automated egg injection machine can be used. In ovo equipment should be previously calibrated to ensure that a 0.05 or 0.1 mL dose is applied. The instructions for the calibration and use of the equipment should be strictly followed, in order to deliver the appropriate dose in the amnion of the embryonated egg. **ADVERSE REACTIONS:** None known. **WITHDRAWAL PERIOD:** Zero days. **SPECIAL PRECAUTIONS:** Chickens must be strictly floor-reared in the first 3 weeks after vaccination. No anticoccidial substances or other agents having anticoccidial activity via feed or water should be used for at least 3 weeks following the hatching of chickens from vaccinated eggs with this product otherwise the correct replication of the vaccine oocysts, and consequently the development of a solid immunity, could be hindered. Store and transport refrigerated (2-8°C). Do not freeze. Shelf life after dilution according to directions: 10 hours. Shelf life after mixing with GUMBOHATCH®: 2 hours. **INTERACTION WITH OTHER MEDICINAL PRODUCTS AND OTHER FORMS OF INTERACTION:** Safety and efficacy data are available which demonstrate that this vaccine can be mixed with GUMBOHATCH® prior to use and administered simultaneously in ovo. The product information of GUMBOHATCH® should be consulted before administration of mixed products. **PACKAGING:** Cardboard box with one vial of EVANOVO® with 6 mL (1.000 doses); cardboard box with one vial of EVANOVO® with 12 mL (2.000 doses); cardboard box with one vial of EVANOVO® with 24 mL (4.000 doses); cardboard box with one vial of EVANOVO® with 30 mL (5.000 doses); cardboard box with one vial of EVANOVO® with 48 mL (8.000 doses); cardboard box with one vial of EVANOVO® with 60 mL (10.000 doses). Not all pack sizes may be marketed. **MARKETING AUTHORISATION HOLDER AND MANUFACTURER:** LABORATORIOS HIPRA, S.A. Avda. la Selva, 135. 17170 Amer (Girona) Spain. Tel. +34 (972) 430660 – Fax +34 (972) 430661. **MARKETING AUTHORISATION NUMBER:** EU/2/22/284/001-006. **CONDITIONS FOR DISPENSATION:** Under veterinary prescription. **FOR VETERINARY USE ONLY.**

GUMBOHATCH® Lyophilisate and solvent for suspension for injection for chickens. **COMPOSITION PER DOSE** (0.05 ml for an in ovo dose or 0.2 ml for a subcutaneous dose): Live attenuated infectious bursal disease virus (IBDV), strain 1052: 10_{1.16} – 10_{2.65} PU (Potency Units). Excipients: IBDV-specific antibody solution: 2.7x10₆ VNU (Virus Neutralisation Units) of IgY per vial. **TARGET SPECIES:** Chickens and embryonated chicken eggs. **INDICATIONS FOR USE:** For active immunisation of 1-day-old broiler chicks and embryonated broiler chicken eggs to reduce clinical signs and lesions of the bursa of Fabricius caused by very virulent avian infectious bursal disease virus infection. The onset of immunity depends on the initial maternally derived antibody (MDA) level of the batch of chickens and even then will be different for individual chickens. In practice, studies in commercial broiler chickens have shown an onset of immunity from between 24 days of age and 28 days of age. The efficacy of the vaccine has been demonstrated in broilers having an average MDA level from 4,500 to 5,100 ELISA units at hatching. **ADVERSE REACTIONS:** In laboratory studies, lymphocyte depletion was very common, followed by a lymphocyte repopulation and regeneration of the bursa of Fabricius. This depletion does not cause immunosuppression in chickens. **ADMINISTRATION ROUTE AND DOSAGE:** By the in ovo route: Administer one single injection of 0.05 ml of the reconstituted vaccine into the amniotic sac of each chicken egg at 18 days of embryonation. By the subcutaneous route: Administer one single injection of 0.2 ml of the reconstituted vaccine under the skin of the neck of each chick at 1 day of age. It is important to note that the volumes of solvent which must be used to reconstitute the vaccine are different depending on whether the vaccine will be administered in ovo to embryonated eggs, or by subcutaneous injection to 1-day-old chicks. Calculate and prepare the required volume of the reconstituted vaccine taking into account the instructions present in the vaccine box. **WITHDRAWAL PERIOD:** Zero days. **INTERACTION WITH OTHER MEDICINAL PRODUCTS AND OTHER FORMS OF INTERACTION:** Safety and efficacy data are available which demonstrate that this vaccine can be mixed with EVANOVO® prior to use and administered simultaneously in ovo. The product information of EVANOVO® should be consulted before administration of mixed products. **SPECIAL PRECAUTIONS FOR STORAGE:** Lyophilisate: Store and transport refrigerated (2 °C – 8 °C). Do not freeze. Protect from light. Solvent: Do not store above 25 °C. **PACKAGE SIZES:** Cardboard box with 10 lyophilisate vials containing 1,000 doses. Cardboard box with 10 lyophilisate vials containing 2,000 doses. Cardboard box with 10 lyophilisate vials containing 2,500 doses. Cardboard box with 10 lyophilisate vials containing 4,000 doses. Cardboard box with 10 lyophilisate vials containing 5,000 doses. Cardboard box with 10 bags containing 200 ml solvent. Cardboard box with 10 bags containing 400 ml solvent. Cardboard box with 10 bags containing 800 ml solvent. Cardboard box with 10 bags containing 1,000 ml solvent. Not all pack sizes may be marketed. **MARKETING AUTHORISATION NUMBER:** EU/2/19/245/001-005. **MARKETING AUTHORISATION HOLDER:** Laboratorios Hipra, S.A. Avda. la Selva, 135. 17170 Amer (Girona), Spain. Tel.: +34 972 43 06 60. **CONDITIONS FOR DISPENSATION:** Under veterinary prescription. **FOR VETERINARY USE ONLY. USE MEDICINES RESPONSIBLY. KEEP AWAY FROM CHILDREN.**



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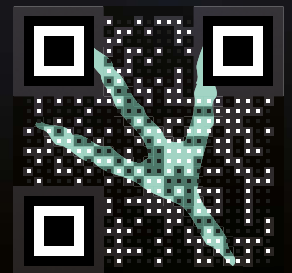
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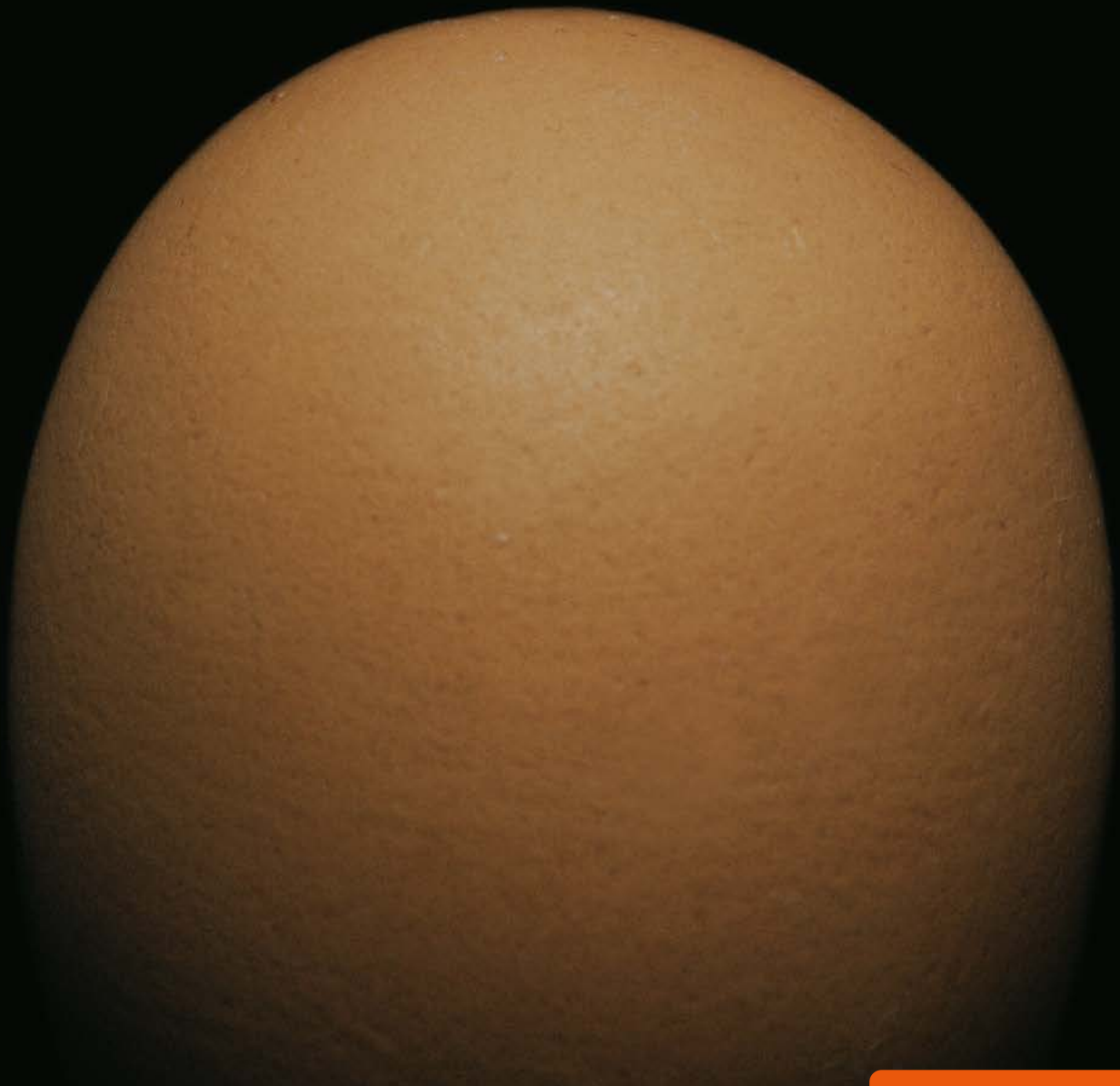
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The Pursuit of Perfection.

Supporting strong flock protection through trusted *in ovo* technology since 1992.

As the pioneer of *in ovo* technology, it's not that we've been around for 30 years but what we've been doing to support hatchery success. From defining *in ovo* vaccination best practices to partnering with customers to provide valued solutions, Embrex® has helped hatcheries globally through trusted technology, service and results.

Discover the Embrex® Innovation Story at Embrex.com/InnovationStory.



Handles With Extra Care

Only the Embrex® Inovoject® NXT system features vacuum-free, low-contact egg handling with Haylo™ technology, designed to reduce risk for contamination and cracking.¹ It's one of the features on the industry's leading equipment for precise *in ovo* vaccination that helps you protect against disease, minimize costs and boost efficiency.² For the next generation of *in ovo* equipment backed by uncompromising service, contact your Zoetis representative.

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*The reduction in egg cracking with the Inovoject® NXT system is numerically less than with the Inovoject system, although not statistically significant.

¹Data on file, Study Report No. 12-19-70R7D, Zoetis Inc.

²Data on file, Study Report Nos. 02-18-70R7D PS-5802CDI SR, 02-18-70R7D PS-5802B SR, 02-18-70R7D PS-5802C SR, 02-18-70R7D PS-5802CD SR, 02-18-70R7D PS-5802D SR and 02-18-70R7D PS-5802I SR, Zoetis Inc.

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