

27<sup>th</sup> International Pig  
Veterinary Society Congress

15<sup>th</sup> European Symposium of  
Porcine Health Management



**IPVS & ESPHM**

JUNE 4-7, 2024 LEIPZIG, GERMANY

[www.ipvs2024.com](http://www.ipvs2024.com)



Programme book

# ECO ANIMAL HEALTH WELCOMES YOU

to the 27th IPVS Congress - 15th ESPHM  
where we are a proud sponsor

## Pig health has never been more important

Whether as a veterinarian, you focus on sow herds or all life phases, the decisions you make enhance the health and welfare of all the pigs under your care. And with health directly correlated to profitability, you are a vital component to the businesses you are a part of.

Like you, ECO is focused on driving better pig health by delivering outstanding services and products while focusing on innovation and sustainability.

Aivlosin® delivers efficacy against *Mycoplasma hyopneumoniae* while also reducing the inflammatory impact of infection along with immunomodulatory benefits which help to resolve disease.

Aivlosin® is licensed at a low effective therapeutic dose and has a short withdrawal period. With no demonstrable resistance by *Mycoplasma hyopneumoniae* and repeated proven performance in the field, it is not only a responsible choice, it is a great choice.

To you, each and every pig is an investment in **time, money and expertise** and **so much MORE** than 'just another pig'.

You made all the **right decisions** to maximise your sow herd by choosing the **right genetics** and feeding the **best nutrition**.

Piglets benefitted from your decisions about **cross-fostering**. You made sure the **environmental temperature** was just right. And she has **benefitted from colostrum**.



**We would love to speak to you during the congress.**

WhatsApp **+44 (0)7919 552 054** | Scan the QR Code | Visit stand no. **D06**

## Driving Animal Health Innovation for a Sustainable Future

Aivlosin® and Valosin® are registered trademarks of ECO Animal Health Ltd, London, United Kingdom and are trade names for the same veterinary medicinal products which contain tylosin. Registered claims and packaging may vary between countries; please check your local label. **VETERINARY PRESCRIPTION ONLY. USE MEDICINES RESPONSIBLY.** Further information about Aivlosin® 625 mg/g Granules for Use in Drinking Water for Pigs and Aivlosin® 42.5 mg/g Premix for Medicated Feeding Stuff for Pigs are available from the Summary of Product Characteristics, your local ECO Animal Health representative and [www.ema.europa.eu](http://www.ema.europa.eu). ECO Animal Health, The Grange, 100 The High Street, Southgate, London, N14 6BN, United Kingdom. Tel: +44 (0)20 8 447 8899 [www.ecoanimalhealth.com](http://www.ecoanimalhealth.com). AIV/PIG/IPVS Ed/ Jun '24



# DISCOVER LEIPZIG



The trade fair city of Leipzig is undeniably a city of history, musicians and thinkers. Many of the sights are centrally located and within walking distance. Take a stroll through the trade fair city and get to know Leipzig's fascinating museums and collections. The city also offers plenty of diversions for active holidaymakers and families. If you want to head straight to the water to go surfing or swimming, in Leipzig you don't have to go far: the Leipzig Neuseenland awaits sports enthusiasts and recreation seekers, and is just outside the city gates.

[www.leipzig.travel/en](http://www.leipzig.travel/en)



JUNE 4-7, 2024 LEIPZIG, GERMANY

Get inspired!

Programme Book  
CONTENTS

Welcome message	3
Scientific Committee	4
IPVS	9
ECPHM & PHM	10
Programme at a glance	12
Sponsors and Partners	14
Floor plans	18
Keynote lectures	22
Detailed programme	43
Tuesday, June 4	44
Wednesday, June 5	45
Thursday, June 6	61
Friday, June 7	77
Social programme	80
General information	81

PLEASE NOTE THAT THIS PROGRAMME MAY NOT INCLUDE THE LATEST UPDATES.  
THE LAST VERSION IS AVAILABLE ON THE CONGRESS WEBSITE [WWW.IPVS2024.COM](http://WWW.IPVS2024.COM)

Welcome  
MESSAGE

Dear Colleagues & Friends around the world working with and for pigs,

With deep honor and great pleasure, I would like to welcome you to the 27<sup>th</sup> International Pig Veterinary Society Congress as a joint event together with the 15<sup>th</sup> European Symposium of Porcine Health Management to be held in Leipzig, Saxony, Germany, between 04<sup>th</sup>-07<sup>th</sup> of June, 2024. Together this will be the world's greatest and most prestigious event for the global pig community.

We are happy & grateful that you, working with pigs in whatever field, decided to join us here in Leipzig!

This welcome letter is on behalf of the International Pig Veterinary Society, the European College of Porcine Health Management, the Veterinary Practitioner Council and the Local Organizing Committee.

The Local Organizing Committee was purposely assembled to best reflect the German pig community which included members of Universities, the German Veterinary Society, the German Practitioner Council, as well as people working in the pharmaceutical, breeding and slaughter/food processing business that all were highly dedicated to help making this event memorable. An ambassador (USA) helped with international affairs. With the Leipzig Trade Fair (Germany) and VET International (Italy), the event had, and still have, highly professional partners aside to shelter and run this IPVS Congress/ESPHM 2024 successfully to our full convenience and satisfaction.

Everybody who works with pigs faces increasing challenges that are more or less severe, good and bad. All the more, this event, which is **OUR** event, provides unique opportunities to exchange opinions, experiences, teach and learn from each other in a broad variety of traditional and more recent fields of pig health and production!

An overwhelming number of 1015 submissions were received from which 921 were selected and finally agreed to be presented by submitting authors, either as an oral presentation or a flash, chaired or ordinary

posters! Also, 16 keynotes speakers agreed to share their opinion on a total of eight highly relevant topics. Last but not least: It is a tradition for IPVS congresses to have a Tom Alexander Memorial Lecture to acknowledge and remember Tom Alexander's contribution to pig medicine. It is our honor that Prof. Jeffrey Zimmerman from Iowa State University (USA) agreed to give this lecture!

The success of this event is warranted by **YOU!** You, who submitted an abstract and agreed to share your scientific results with the rest of the world! You, who agreed to give a keynote lecture! You, who agreed to voluntarily serve as a reviewer! You, who voluntarily agreed to serve as a chair person! You, who agreed to sponsor, and without your effort, such an event would not be possible!

A particular thanks goes to the scientific committee with members from all over the world, and especially to the chair, Dr. Carl Andreas Grøntvedt (Norway), and to his co-chair, Prof. Mari Heinonen (Finland), who worked "around the clock" until this terrific scientific program was "sound" and "ready to go"!

We are convinced that, when you are back home, you will remember the 27<sup>th</sup> International Pig Veterinary Society Congress/ 15<sup>th</sup> European Symposium of Porcine Health Management as one of the best scientific events you have ever attended. And please also remember the City of Leipzig, the State of Saxony and the Country of Germany as a place worth visiting again!

On behalf of everybody that made the 27<sup>th</sup> International Pig Veterinary Society Congress/ 15<sup>th</sup> European Symposium of Porcine Health Management, Leipzig, Saxony, Germany, 04<sup>th</sup>-07<sup>th</sup> of June, 2024, a memorable highlight!

Yours sincerely,

Johannes Kauffold,  
IPVS&ESPHM 2024 Congress President



## Scientific Committee

The Scientific Committee is composed of the members of the LOC, the board of the International Pig Veterinary Society, the board of the European College of Porcine Health Management, and the Veterinary Practitioners Council.

The Scientific Committee is chaired by Dr. Carl Andreas Grøntvedt and co-chaired by Prof. Mari Heinonen.

## LOCAL ORGANISING COMMITTEE



**Prof. Dr. Johannes Kauffold**

President of IPVSESPHM 2024,  
Head of Swine Section of the  
German Chamber of Veterinary  
Medicine, Faculty of Veterinary  
Medicine, Leipzig University



**Prof. Dr. Dr. Thomas Vahlenkamp**

Co-President, Dean of Faculty  
of Veterinary Medicine, Leipzig  
University



**Dr. Jörg Altemeier**

Tönnies Holding ApS & Co. KG



**Prof. Dr. Gary Althouse**

School of Veterinary Medicine,  
University of Pennsylvania



**Dr. Matthias Eddicks**

Member of Specialist Group  
for Swine Medicine, German  
Veterinary Medical Society,  
LMU München



**Dr. Nora Hammer**

General Manager German  
Livestock Association



**Prof. Dr. Doris Höltig**

Head of Specialist Group for  
Swine Medicine, German Vet.  
Med. Society, Freie Universität  
Berlin



**Dr. Torsten Pabst**

Chair of the Expert Group  
for Pigs of the German  
Practitioners Association



**Dr. Andreas Palzer**

Board Member of the German  
Practitioners Association



**Dr. Haukur Sigmarsson**

Secretary, Faculty of Veterinary  
Medicine, Leipzig University



**Dr. Gerfried Zeller**

Chairman of the Academy of  
Animal Health

## IPVS BOARD



**Prof. Dr. Johannes Kauffold**

President



**Dr. Francois van Niekerk**

General Secretary



**Prof. Dr. Fernanda Almeida**

Chairperson of the Board



**Dr. Pat Kirwan**

Board Member



**Dr. Won Hyung Lee**

Board Member



**Dr. Alberto Stephano**

Board Member



**Prof. Nguyen Tat Toan**

President Elect



**Prof. Dr. Hanchun Yang**

Board Member

## ECPHM BOARD



**Dr. Nicolas Rose**

President



**Dr. Carl Andreas Grøntvedt**

Vice-President



**Prof. Dr. Heiko Nathues**

Past-President



**Prof. Dr. Doris Höltig**

Treasurer



**Dr. Elena Canelli**

Secretary



**Prof. Dr. Arie van Nes**

Board Member



**Dr. Christine Unterweger**

Board Member



## VETERINARY PRACTITIONER COUNCIL



**Dr. Adrian Balaban**  
Fatrom Feed Additives S.R.L.,  
Ferneplus S.R.L.



**Dr. Magdalena  
Czaplińska-Możdżeń**  
MSD Animal Health



**Dr. Ursula Friedmann**  
PFI DR VET – Die Tierärzte OG



**Dr. Dražen Hižman**  
Belje Agro-Vet Plus d.o.o.



**Dr. Karien Koenders**  
Lintjeshof Farm Health  
Solutions



**Dr. Adél Orosz**  
Bonafarm Group, Bóly Zrt.



**Dr. Martin Pfützner**  
Tierärztliche Praxis am  
Weinberg



# It's time to embrace change, together

Booth  
**D14**

Shifting trends in our industry can make the future seem uncertain. But what if every challenge was an opportunity for success? When we partner together to face problems with the right solutions and mindset, the future looks brighter. Join us at **Booth #D14** to find out more about how we plan to embrace change and help your business thrive in a challenging world.

*Together, we get it right.*



# Science is our inspiration, and guides us in our search for better ways to care for swines.

Our commitment is not products. Our commitment is assure you  
– as leader in animal production– may continue your journey to feed the world.  
For **Farmabase** the **future begins every day**.

Wherever there is: **health, performance** and **well being**, we will be there.

Ss	En	Hp	Ac	Ap	Bs	Tp
Systemic	Enteric	Health & Performance	Anticoccidians	Antiparasitics	Biosafety	Therapeutics
Performance in different tissues	Treat and control enteric diseases	Growth promoter and support therapy	Maintaining intestinal integrity	Control of endoparasites	Vector control and disinfection	Prevention and therapeutic support



Scan this QR Code  
for more information



Farmabase Animal Health • [www.farmabase.com](http://www.farmabase.com) • Phone: +55 19 3837-9900

Committed to animal health



## International Pig Veterinary Society IPVS



[www.theipvs.com](http://www.theipvs.com)

The International Pig Veterinary Society [IPVS] is an association of specialists in pig health and production.

The IPVS was founded in 1967. The first Congress was held in Cambridge, United Kingdom in 1969 and the second in Hannover, Germany in 1972.

Since 1972, congresses have been held every second year except for 2020 when COVID intervened; the Leipzig Congress will thus be the 27<sup>th</sup> Congress of the IPVS and the 28<sup>th</sup> Congress is scheduled for Ho Chi Minh City, Vietnam in 2026.

The number of participants at recent IPVS Congresses has varied between 2000 and 5600.

### Objectives of the IPVS

The objectives of the Society are the following:

1. the holding of international congresses for the exchange of knowledge related to pig health and production.
2. the promotion of the formation of Pig Veterinary Societies in all pig producing countries and promotion of cooperation between such societies.

The organisers of the IPVS Congresses strive to present sound, scientific research based programmes plus descriptions of practical challenges such as disease outbreaks and the control thereof. IPVS Congresses provide ideal opportunities to network with colleagues from swine producing countries throughout the world.

## The European College of Porcine Health Management Ltd. **ECPHM**

**ECPHM** EUROPEAN COLLEGE  
OF PORCINE HEALTH  
MANAGEMENT

[www.ecphm.org](http://www.ecphm.org)

The ECPHM is a non-profit organization under the umbrella of the European Board of Veterinary Specialization (EBVS).

EBVS recognises and monitors veterinary speciality Colleges in Europe. It defines guidelines for the recognition and registration of specialists in areas of veterinary medicine in Europe, and maintains an updated register of European Veterinary Specialists.

EBVS encourages and promotes the enhanced utilization and availability of veterinary specialist services to the public and the veterinary profession. The ECPHM works for the advancement of health and welfare oriented porcine production management in the herd context in Europe, and the increase of the competency of those who practice in this field.

The major objectives of the ECPHM include:

- Establishing guidelines and standards of training for postgraduate education and experience prerequisite to become a veterinary specialist in the specialty of porcine health management.
- Examining and authenticating veterinarians as specialists in porcine herd health management to serve health and welfare of the animals, the economic outcome of the herd, and the production of safe quality product for consumers in a sustainable animal production by providing expert care for pigs.
- Encouraging research and other contributions to the science and practice of porcine herd health management including husbandry, reproduction, epidemiology, pathogenesis, diagnosis, therapy,

prevention, and control of diseases directly or indirectly affecting pigs and the maintenance of healthy and productive pig herds.

- Porcine health management also includes the impact on quality and safety of pork and gives special consideration to herd health and production, production systems and targets, and the management of pig populations.
- Promoting communication and dissemination of knowledge.

The ECPHM is organized through different bodies that take care of the different activities performed:

- the Board represents the College and is its main government body;
- the Education Committee organizes educational events for the ECPHM residents, including the e-learning sessions, the pre-symposium workshop and the summer school. The Education Committee also approves Resident training programs;
- the Examination Committee prepares the annual exam and arranges the examination of residents;
- the Credentials Committee reviews and approves the applications for admittance to the residency program, as well as the applications to sit the exam, and review applications for recertification of the Diplomates;
- the Nominations Committee manages and reviews the proposals for nominations in the different committees and board;
- the ECPHM activities are supported by a permanent Administrative Secretariat in Parma, Italy.

## Porcine Health Management **PHM**

[www.porcinehealthmanagement.biomedcentral.com](http://www.porcinehealthmanagement.biomedcentral.com)

Porcine Health Management (PHM) is an open access peer-reviewed journal that aims to publish relevant, novel and revised information regarding all aspects of pig health medicine and production. The journal provides a venue for global research on pig health and production, including infectious and non-infectious diseases, reproduction, epidemiology, management, economics, genetics, housing, nutrition, animal welfare and ethics, legislation, food safety, drugs and surgery. This journal is aiming at readers, and attracting authors, with different levels of experience; Diplomates and Residents of the ECPHM and other colleges as well as PhD students and experienced researchers from outside! Anticipated articles include: original research, reviews, short communications, case reports, case studies and commentaries.

The Editors-in-Chief are Paolo Martelli (University of Parma, Italy) and Heiko Nathues (University of Bern, Switzerland).

PHM published a total of 55 articles in 2023, reflecting an overall growth trend for the journal in recent years.

The journal has been publishing since 2015, and is now indexed in different databases, including MedLine (PubMed) and, more recently, Clarivate's Web of Science.

PHM got its first Impact Factor in 2020 (2.190), and in 2022 the Impact Factor increased to 3.4, maintaining the journal's rank in the first quartile of the Veterinary Sciences category. The journal also continues to maintain a fast turnaround time for authors of nearly 90 days for accepted

manuscripts. Articles now collectively receive well over 100,000 unique views by readers per year. A great achievement for a young journal like PHM! Please use the online submission system to submit your manuscript.

For all enquiries about the journal, technical issues, payment of article processing charges (APCs), etc. please contact: [porcinehealthmanagement@biomedcentral.com](mailto:porcinehealthmanagement@biomedcentral.com).

There are many reasons to publish in PHM:

- High visibility / PHM's open access policy allows maximum visibility of articles published in the journal as they are available to wide, global audience.
- Speed of publication / PHM offers a fast publication schedule whilst maintaining rigorous peer reviews.
- Flexibility / Online publication in PHM gives authors the opportunity to publish large datasets, large numbers of colour illustrations and moving pictures, etc.
- Promotion and press coverage / Articles published in PHM are included in article alerts and regular email updates.
- Copyright / Authors of articles published in PHM retain the copyright of their articles and are free to reproduce and disseminate their work.



# PROGRAMME AT A GLANCE

**4** Tuesday  
June

Exhibition Opening Hours: 13.00-19.00

	PLENARY	HALL 1	HALL 2	HALL 3
13.00-19.00	Registration and Exhibition opening			
14.00-15.30		Boehringer Ingelheim Symposium	Farmabase Animal Health Symposium	
16.00-16.30	Opening Ceremony			
16.30-17.15	Tom Alexander Memorial Lecture			
17.15-18.15				ECPHM Annual General Meeting
17.30-19.00	Welcome Reception (Exhibition Hall 2)			

**5** Wednesday  
June

Exhibition Opening Hours: 8.00-18.00

	PLENARY	HALL 1	HALL 2	HALL 3
8.30-10.00	<u>Keynote Session</u> Virology and Viral Diseases	<u>Keynote Session</u> Management of Crises and Disasters	<u>Keynote Session</u> Reproduction	
10.00-10.30	Coffee Break & Poster Viewing			
10.30-12.10	Virology and Viral Diseases	One Health	Reproduction	ECPHM Resident Session
12.10-13.30	Lunch & Poster Viewing & Chaired Poster Presentations			
13.30-14.50	Virology and Viral Diseases	One Health	Reproduction	Parasitology
14.50-15.20	Coffee Break & Poster Viewing			
15.20-16.40	Virology and Viral Diseases	One Health	Reproduction	Clinical Club
16.40-17.00	Poster Viewing			
17.00-18.30	Zoetis Symposium	HIPRA Symposium		

**6** Thursday  
June

Exhibition Opening Hours: 8.00-18.00

	PLENARY	HALL 1	HALL 2	HALL 3
08.30-10.00	<u>Keynote Session</u> Human Resource Management	<u>Keynote Session</u> Nutrition	<u>Keynote Session</u> Welfare and Ethology	
10.00-10.30	Coffee Break & Poster Viewing			
10.30-12.10	Bacteriology and Bacterial Diseases	Herd Health Management	Nutrition	Vaccinology and Immunology
12.10-13.30	Lunch & Poster Viewing & Chaired Poster Presentations			
13.30-14.50	Bacteriology and Bacterial Diseases	Herd Health Management	Nutrition	Vaccinology and Immunology
14.50-15.20	Coffee Break & Poster Viewing			
15.20-16.40	Bacteriology and Bacterial Diseases	Herd Health Management	Nutrition	Flash Talks
16.40-17.00	Poster Viewing			

**7** Friday  
June

Exhibition Opening Hours: 8.00-13.00

	PLENARY	HALL 1
08.30-10.00	<u>Keynote Session</u> Infectious agents escape strategies - playing hide and seek	<u>Keynote Session</u> PLF (Precision Livestock Farming) and Herd Health Management
10.00-10.30	Coffee Break & Poster Viewing	
10.30-12.10	Welfare and Ethology	PLF (Precision Livestock Farming)
12.10-13.00	Coffee Break & Poster Viewing	
13.00-15.00		Closing Ceremony

Sponsors & Partners

# ACKNOWLEDGEMENT OF SPONSORS

## Platinum



## Gold



## Silver



## Bronze



Sponsors & Partners

# ACKNOWLEDGEMENT OF PARTNERS

## Media Partners



**PIG PROGRESS**



The fight against **PRRS** goes on

**AS DOES OUR  
COMMITMENT**

10 years  
facing PRRS  
together



**HIPRA**



Venue

# FLOOR PLANS



Congress Center Leipzig (CCL)

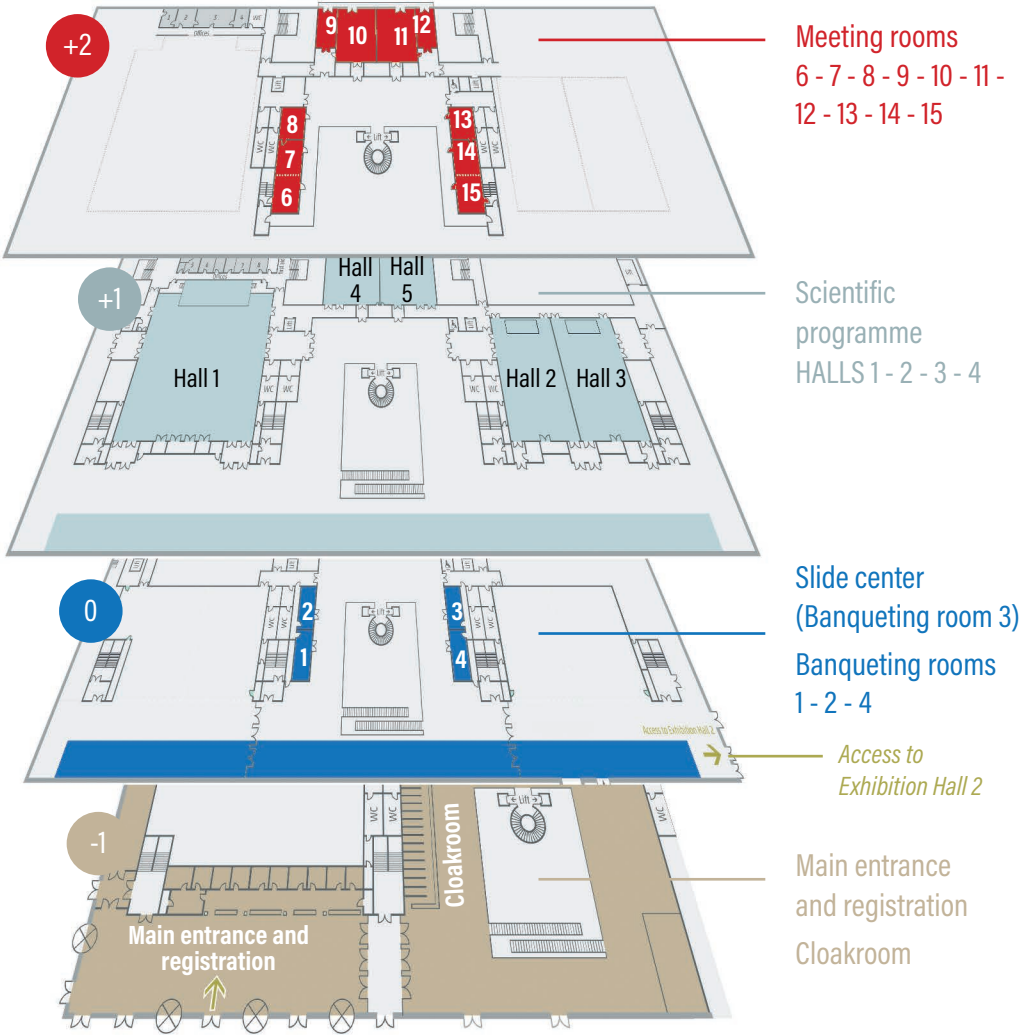
- Welcome desk and registrations
- Meeting rooms
- Slide Center & speakers rooms
- Cloakroom

Exhibition Hall 2

- Plenary
- Exhibition area
- Catering area
- Poster area (paper and e-posters)

Venue

# CONGRESS CENTER LEIPZIG (CCL)



Venue

# EXHIBITION HALL 2

- Catering areas & standing tables
- E-Poster stations
- Printed posters

a) Nutrition

b) Immunology and Vaccinology

c) Reproduction

d) Virology and Viral Diseases

e) PLF (Precision Livestock Farming)

f) Animal Welfare and Ethology

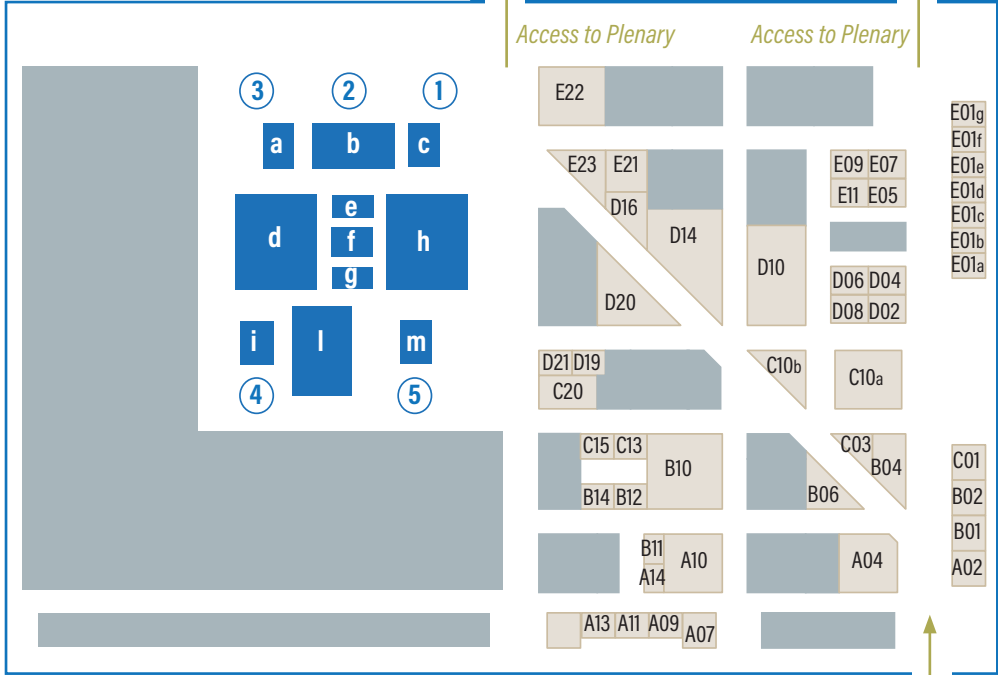
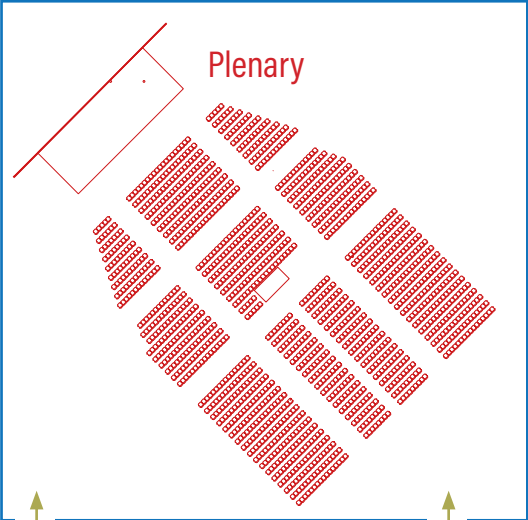
g) Parasitology and Parasitic Diseases

h) Bacteriology and Bacterial Diseases

i) One Health

l) Herd Health Management

m) Miscellaneous and Clinical Cases



Access to Exhibition Hall 2

Company	Booth
Animal and Plant Health Agency	A07
BioSella SAS	A13
BioCheck BV	E05
Biogénesis Bagó	E21
Bioveta, a.s.	A11
Boehringer Ingelheim Vetmedica GmbH	D14
CATALYSIS S.L.	D19
Chr. Hansen A/S	B04
Dopharma International BV	B12
Dr. Bata Ltd.	E09
ECO Animal Health	D06
Exopol S.L.	C13
Farmabase Animal Health	D10
Henke-Sass, Wolf GmbH	C15
HIPRA	C10a+C10b
IDEXX B.V.	C20
IMV Technologies Ltd.	E01d
INDICAL BIOSCIENCE GmbH	E01f
Innovad N.V.	C03
INNOVATIVE DIAGNOSTICS	B11
Kela NV	B02
Kemin Europa NV	E07
KONIVET GmbH	D16
Leman China/Shixin & Lamp International Exhibitoi (Beijing) Co., Ltd	A14

Company	Booth
Longhorn Vaccines & Diagnostics LLC	E01e
Magapor S.L.	A02
Meddit BV	D08
Medi Nova S.a.s. di Melli Paola & c.	C01
MSD Animal Health	B10
Novus Europe NV	D02
PIC	B06
Pig Progress (Misset International Media)	A09
Poulpharm BV	E11
Royal GD	D04
SAN Group GmbH	A10
SEPPIC SA	E01a
Serumwerk Bernburg AG	E01b
Sunplus Technology Co., Ltd.	D21
Tetracore, Inc.	E01c
Thermo Fisher Scientific	E01g
Topigs-SNW GmbH	B01
Uniferon	B14
Veyx-Pharma GmbH	A04
Virbac	D20
Zoetis	E22+E23

## Keynote lectures

**PROF. JEFFREY ZIMMERMAN**

Session: Opening Ceremony

Lecture: **Tom Alexander Memorial Lecture**TUESDAY, 4<sup>th</sup> JUNE 2024 H. 16.30 – 17.15, Plenary**Biosketch**

Dr. Jeff Zimmerman is a professor in the Department of Veterinary Diagnostic and Production Animal Medicine in the College of Veterinary Medicine at Iowa State University (Ames Iowa USA) working in the area of swine infectious disease diagnostics, epidemiology, and economics. In particular, his recent research has focused on aspects of diagnostic medicine related to assay development and applications in infectious disease surveillance. In collaboration with generous colleagues and dedicated graduate students, Dr. Zimmerman has authored/co-authored > 200 refereed publications, 15 book chapters, and co-edited 3 editions of Diseases of Swine (9th, 10th, 11th editions).

**Abstract**

Dr. Tom Alexander in a 1971 publication (Veterinary Record 88:138) remarked on a 20-year trend from small, extensive herds toward larger, intensive, mechanized, and specialized pig farms. Of course, Dr. Alexander's 1971 observations marked only the beginning of an evolution in pig husbandry; an evolution of which he was very much a part and which continues into the present. Overall, these changes have brought tremendous gains in efficiency to pork production, but with collateral effect on animal health. That is, *ceteris paribus* and in the absence of vaccines able to generate robust protective immunity, disease control has become tenuous in large, complex herds. Further complicating matters, the extensive movement of animals, personnel, material, and a variety of products has facilitated the spread of infectious agents, including the spread of transboundary diseases between countries. The premise of this presentation is that the successful control of transboundary diseases will require innovations that result in an effective, sustainable, affordable surveillance system capable of the early detection transboundary swine pathogens at the regional or country levels. Such a system must be able to provide accurate, quantifiable evidence of progress and guide final control efforts. Ultimately, it must be able to demonstrate that a region or country is free of the pathogen and qualified to participate in international markets. In terms of functionality, such a system must be continuous, real-time, cost-effective, and adaptable to a variety of disease threats. Herein we present evidence that such a system could be constructed and implemented in many parts of the world by organizing and coordinating the use of widely available and currently used technologies.

Keynote  
**LECTURES**

Prof. Jeffrey Zimmerman

Prof. Hua-Ji Qiu

Prof. Janice Reis Ciacci Zanella

Dr. Ludovic Plee

Dr. Adrian Balaban

Mr. Thomas Sønderby Bruun

Prof. Chantal Farmer

Dr. Martin Pfützner

Dr. Estevão Lopes

Dr. Brent Frederick

Prof. Stephan Schneider

Dr. Miguel Angel Higuera

Dr. Heleen van de Weerd

Prof. Dirk Werling

Prof. Thomas Vahlenkamp

Dr. Carlos Piñeiro

Prof. Liang Chou Hsia



## Keynote lectures

**PROF. HUA-JI QIU**

Session: Virology and viral diseases

Lecture: **New technologies applied to vaccine development: what can we expect?**WEDNESDAY, 5<sup>th</sup> JUNE 2024 H. 8.30 – 9.00, Plenary**Biosketch**

Hua-Ji QIU, PhD, DVM, professor, the chief scientist of the Unit for High-Consequence Swine Viral Diseases, Harbin Veterinary Research Institute, Chinese Academy of Agricultural Sciences, China. He served as coordinator of more than 20 projects from National "863" Program, National Natural Science Foundation of China, National Key Technologies R&D Program, EU FP7 project, etc. His research is focused on the regulation of viral replication, virulence determinants and development of diagnostic assays and marker vaccines for classical swine fever, African swine fever and pseudorabies. He has been awarded several national and provincial prizes for progress in science and technology. He has published more than 150 papers in SCI-indexed journals, including 15 papers in Journal of Virology.

Prof. QIU is a member of the Asfarviridae Study Group of ICTV, a member of National Committee of Experts on Animal Epidemic Prevention of China, and a standing member of Animal Infectious Diseases Branch and a member of Veterinary Biotechnology Branch of Chinese Society of Animal Husbandry and Veterinary. He serves as editor of several journals such as Frontiers in Immunology, Viruses, Scientia Agricultura Sinica, Chinese Journal of Biotechnology, Acta Microbiologia Sinica, etc., and a peer reviewer of a number of international journals such as Gene Therapy, Journal of Virology, Vaccine, Veterinary Microbiology, Viruses, Virus Research, etc. Additionally, he is a Heilongjiang high-level B talent, agricultural talent, provincial pig industry system expert, provincial government special subsidy recipient.

**Abstract**

African swine fever (ASF) is a devastating hemorrhagic disease of domestic pigs and wild boar caused by African swine fever virus (ASFV). The disease has a fatality of as high as 100% in acute cases, with no commercial vaccines or treatments available. During the past decades, great efforts have been made to achieve a safe, efficacious, and affordable ASF vaccine for the prevention and control of the transboundary disease, a major concern to all the stakeholders of the pig industry worldwide. With intensive investment in the ASFV research and development in recent years, unprecedented progress has been made in the development of novel ASF vaccines, including live attenuated vaccines, subunit vaccines, virally vectored vaccines, and DNA/mRNA vaccines, with varied safety and efficacy profiles. A number of promising ASF vaccine candidates are being evaluated in preclinical experiments or/and clinical trials, showing good commercialization potential. However, there are still many bottlenecks hindering its further development. In this keynote lecture, I will summarize various vaccine strategies, with respect to the advantages and disadvantages, comprehensive evaluation, current challenges, application prospects of ASF vaccine candidates as well as the development directions in the future in developing safe and efficacious ASF vaccines.

**Keywords:** African swine fever; vaccines; development strategies; application prospects

## Keynote lectures

**PROF. JANICE REIS CIACCI ZANELLA**

Session: Virology and viral diseases

Lecture: **Emerging viral diseases: recent global threats**WEDNESDAY, 5<sup>th</sup> JUNE 2024 H. 9.00 – 9.30, Plenary**Biosketch**

Janice Reis Ciacci Zanella, is a veterinary doctor graduated from UFMG (Brazil) with a Master's and a Ph.D. degree from the University of Nebraska, USA.

She is a researcher at EMBRAPA (Brazilian Agricultural Research Corporation), Embrapa Swine and Poultry in Animal Virology.

She participates in the One Health High Level Expert Panel (OHHLEP) of the WHO, FAO, WOAH (OIE), UNEP and OFFLU on Swine Influenza.

She is currently a visiting scientist at NADC/ARS/USDA and Postdoctoral fellow at Iowa State University, USA

**Abstract**

Emerging diseases continue to emerge in nature and affect living beings on all continents. It is assumed that a pathogenic agent emerges in the world every 4 months, and of these, 75% are zoonotic. Zoonotic diseases affect billions of people worldwide, causing million deaths every year. Monitoring zoonotic viruses is essential, as viruses evolve naturally through mutation, rearrangement, or recombination, becoming more virulent or transmissible. Emerging swine viruses pose a threat to herd health and have caused losses in the last decades. Factors contributing to these phenomena include failures in biosecurity, biocontainment, and herd immunity imbalance. The world is on alert with outbreaks of highly pathogenic avian influenza occurring in wild or domestic birds and mammals. As it is a zoonosis and a virus that is in constant evolution, it is important to be prepared for an effective response and surveillance. However, we must think less about species and more about systems. The impact of pandemics like COVID-19 on human health and the global economy is immense, emphasizing the importance of integrating human, animal, and environmental health approaches. One health implementation is crucial to avoid the drivers of disease emergence or spillover factors. It also deals with the development and adoption of effective public policies for disease surveillance, prevention, response, and control. Everything is connected and complex, with multisectoral and multidisciplinary work being essential. However, implementing One Health is much more than zoonoses; it includes nutritious foods, food safety, antimicrobial resistance, and many other aspects of environmental health.

## Keynote lectures

**DR. LUDOVIC PLEE**

Session: Management of crisis and disasters

Lecture: **When lightning strikes: strategies of crisis and disaster management**WEDNESDAY, 5<sup>th</sup> JUNE 2024 H. 8.30 – 9.00, Hall 1**Biosketch**

Dr. Ludovic Plée has been serving as Manager of the FAO Emergency Management Centre (EMC) in Rome since 2019. The EMC is leading, with the support of FAO technical units and the Office of Emergency and Resilience, global, regional and national activities to increase emergency management capabilities for better resilience and response to agri-food systems threats affecting livelihoods. Prior to managing the FAO EMC, from 2016 to 2019, Dr. Plée served as Project Manager in the FAO office in Jerusalem, working on Sanitary and Phytosanitary capacity development for the West Bank and the Gaza Strip. He was before then, from 2009 to 2016, assigned as a Response Planning officer to the FAO Crisis Management Center for Animal Health (previous EMC name), seconded by the French Ministry of Agriculture. He was deployed in many emergency response missions on various transboundary animal diseases outbreaks (zoonotic and non-zoonotic) as well as training national veterinary officers in FAO countries on good emergency management practice as well as on contingency planning. From 2006 to 2009, he worked in the French Food Safety Agency in Maisons-Alfort, France, as an emergency qualitative risk assessor on animal health issues affecting public health and food safety and, from 2003 to 2006, was a Veterinary Advisor in Paris, France, for the headquarters of the main Farmers Group, les Groupements de Défense Sanitaire (or GDS), especially on veterinary legislation, risk communication and disease awareness. He also serves as a lecturer in the French veterinary school in Nantes and in the French School of the Veterinary Services in Lyon on qualitative risk assessment and emergency management. Dr. Plée earned a Diploma of Veterinary Medicine from the Veterinary School in Nantes, France, and a Masters of Science in Epidemiology and Environmental Health with honours at Colorado States University, Fort Collins, CO, USA.

**Abstract**

Shifting the emergency management paradigm towards a system-wide approach to be better prepared to the risk of emerging or re-emerging health threats.

- Lessons learnt from the global COVID-19 response highlighted the lack of effective emergency preparedness mechanisms. Each emergency operation system worked independently and was confined within national borders and disciplinary silos impeding a coordinated response capacity to address this new challenge at the pace and scale required.
- Data from the Food and Agriculture Organization of the United Nations (FAO) Progressive Pathway for Emergency Preparedness (PPEP), a self-assessment process and tool that has been applied by over 60 FAO member countries to assess their animal health emergency preparedness since its launch in May 2022, showed that the vast majority of participating countries are still unprepared for potential threats.
- The global challenge to better prepare for the next pandemic remains. Preparedness for any emerging threat requires a shift in classical views and paradigms. Emergency management systems, like other systems, should be adaptable and evolve from traditional siloed and single-threat approaches which lack flexibility during crises, to system-wide integrated approaches with increased efficiency and adaptability to future and emerging threats.
- Integrated, adaptive systems will allow countries, regions and the world not only to effectively address current and emerging threats but will likely be more resource-efficient to address the emerging threats arising from global crises.

## Keynote lectures

**DR. ADRIAN BALABAN**

Session: Management of crisis and disasters

Lecture: **Practical emergency management of ASF in Romania**WEDNESDAY, 5<sup>th</sup> JUNE 2024 H. 9.00 – 9.30, Hall 1**Biosketch****EDUCATION**

University of Agronomic Science and Veterinary Medicine – Bucharest, Romania  
 BA, Doctor Veterinary Surgeon (DVM) 2005  
 BISA Swine Academy 2015, Ames, Iowa State University  
 BISA LEAD 2017-2018, Ames, Iowa State University  
 Professional development programs for veterinary practitioners  
 Participations in IPVS 2010 Vancouver- Canada, IPVS 2012 Jeju- South Korea, IPVS 2016 Dublin Ireland, IPVS 2018  
 In the last 15 years attended different training periods in Holland and US for pig health, pig farm management, laboratory investigations and pig genetics, AI stations, biosecurity of livestock production systems

**PROFESSIONAL EXPERIENCE**

- Primary Functional Expertise – swine veterinarian  
 2005- veterinarian in FATROM feed additives, premix and feed production- Technical support responsible for swine  
 Since 2006- General Manager Fermeplus SRL 4600 sows  
 Since 2010 Director Cooperativa Silistea Productie Suine CA – 14 pigs farms  
 In total managing directly 8800 sows, 65000 places finishers, 18000 places for weaners.  
 Consultancy in health management and pig production for other 10000 sows farrow to finish, more than 75000 places for finishers, AI station  
 Pig farm Biosecurity expert, presentations: Bergen, Norway 2018, Bucharest, Romania 2018, 2019, 2020, 2021, Bulgaria, 2018, 2019, China 2019, USA 2015, 2017, 2018, 2019, 2020, North Macedonia 2020

More information available on the website  
[www.ipvs2024.com](http://www.ipvs2024.com)

**Abstract**

Livestock farms, like any other enterprise, are exposed to any type of risks that could alter the normal course of production such as natural disasters, accidents, major animal diseases, public health problems and other interruptions of the production chain.

Given the specifics of our activity, physiological, zootechnical, economic and temporal limitations, the preparation of a Business Continuity Plan that includes a general contingency plan but also specific to each crisis, both theoretical and practical should be part of the routine of every farm.

In a country like Romania where the entire territory is suspected of African Swine Fever, each farmer must have a contingency plan in case of confirmation of an outbreak of ASF on his holding, made together with the farm veterinarian and notified to the competent authority.

The management of outbreaks of major diseases such as ASF is the responsibility of the state, however, the livestock breeder must be ready to respond to such situations at any time, even if he only has the role of assisting. Planning is essential to reduce property damage, decrease the risk of spreading the disease to the immediate territory or production chain, and protect other susceptible animals.

From my position as General Manager of Pork & Co, I had to develop, implement, and apply such contingency plans in case of confirmation of ASF outbreaks in farms from our group and not only. The management of such situations involves a very good collaboration with all those involved, but also the quick response to novel situations that cannot be planned. A situation as such its very stressful for all the people involved and leaves behind disruptive memories and economical losses.

## Keynote lectures

**MR. THOMAS SØNDERBY BRUUN**

Session: Reproduction

Lecture: **Management and future of hyperprolific sows**WEDNESDAY, 5<sup>th</sup> JUNE 2024 H. 8.30 – 9.00, Hall 2**Biosketch**

Thomas completed his MSc in Animal Science at University of Copenhagen, Denmark, in 2005. Throughout his education, focus was pig nutrition and physiology as well as applied reproduction. From 2005 to 2010, he worked as a pig production consultant where his main focus included sow nutrition and diet formulation, on applied sow reproduction and how to use feed in practice as well as optimizing management protocols in the service and farrowing units. Since 2010, he has been working at SEGES Innovation where his research has focused on sow and gilt nutrition. He has also been involved in transferring knowledge from research and innovation to farmers – and thereby participating in implementation of best practice on Danish farms. Thomas' main areas of research include amino acid and energy requirements of hyper-prolific lactating sows, milk production, stomach health and feeding of rearing gilts with focus on both bone development, litter size and longevity. Several research studies have been conducted in co-operation with University of Copenhagen and Aarhus University, and also include co-supervision of several PhD students.

**Abstract**

The use of hyper-prolific sows increases the economical potential at farm level due to a higher litter size and increased nursing capacity. Management to ensure sufficient colostrum intake, equal and uniform litters and the use of specific nurse sow strategies becomes of great importance with increasing litter size. Furthermore, correct feeding management during the entire reproductive cycle will affect sow body weight development, and thus reduce the proportion of sows having locomotor problems caused by excess weight. At the same time striving for the optimal weight and body condition at first service in gilts and optimal backfat thickness at each farrowing makes feed composition and feed allowance increasingly important for both gilts and sows. Innovative feeding systems can facilitate the implementation of precision- and phase feeding strategies that may support the hyper-prolific sow better than the simplest solutions. With continuous genetic selection the hyper-prolific sows are constantly improved making the demand for improved management and feeding strategies even more pivotal. This presentation will provide an outline of strategies in terms of both management, feed composition and number of diets for modern commercial sow herds.

## Keynote lectures

**PROF. CHANTAL FARMER**

Session: Reproduction

Lecture: **Optimizing production and uptake of colostrum and milk**WEDNESDAY, 5<sup>th</sup> JUNE 2024 H. 9.00 – 9.30, Hall 2**Biosketch**

Dr. Farmer is a research scientist in sow lactation biology working at the Sherbrooke Research and Development Centre of Agriculture and Agri-Food Canada.

Dr. Farmer was a pioneer in studying mammary development in gilts and sows and identifying the various factors affecting it. She has published 166 scientific manuscripts, 9 book chapters, and is the sole editor of two books that were also translated and published in Chinese.

Dr. Farmer's expertise is recognized internationally as evidenced by her being a guest-speaker in 13 European countries as well as China, Australia, Mexico, Canada and the USA. She was Editor-in-Chief of the *Canadian Journal of Animal Science* from 2006 to 2010.

She was on the board of the Canadian Society of Animal Science for 12 years, serving as its president in 1998-99, she received 2 national awards and was made a fellow of this Society in 2017.

Dr. Farmer was on the board of the American Society of Animal Science from 2014 to 2020, from which she received the 2022 President's Award for International Achievements in Animal Science. Dr. Farmer is currently on the editorial board of the journals *Translational Animal Science* and *Domestic Animal Endocrinology*.

**Abstract**

Sows do not produce enough colostrum and milk to optimize growth and survival of their piglets. Mammary development can affect milk yield but can only be stimulated when already ongoing. In swine, periods of rapid mammary development are from three months of age until puberty, 90 days of gestation until farrowing, and throughout lactation. Early studies showed that a 20% feed restriction from 90 days of age until puberty reduces mammary parenchymal tissue. Recently, sow milk yield was not affected by a 10% or 20% feed restriction, or a 25% dietary fibre addition from 90 days of age to breeding, likely due to greater feed intake of control gilts. During prepuberty, providing the phytoestrogen genistein increases the number of mammary cells. During late gestation, feeding very high energy levels may have detrimental effects on mammary development and subsequent milk production. Conversely, a 40% increase in SID Lys intake (via more soybean meal) led to a 44% greater mammary parenchymal mass. Increasing concentrations of the growth factor IGF-1 from days 90 to 110 of gestation increased mammary parenchymal weight by 22%. Feed intake throughout gestation is important because it affects body condition. Gilts that are too thin (<16 mm backfat thickness) in late gestation have reduced mammary development. It is important to ensure that all teats from primiparous sows are suckled for at least 2 days in order to optimize milk yield in the subsequent lactation. Hence, feeding management before lactation and piglet handling can be used to improve milk yield.

**Key Words:** feeding, mammary development, swine



## Keynote lectures

**DR. MARTIN PFÜTZNER**

Session: Human resource management

Lecture: **Economic view on staff management**THURSDAY, 6<sup>th</sup> JUNE 2024 H. 8.30 – 9.00, Plenary**Biosketch**

Grew up in Eastern part of Germany

2008-2010 Apprenticeship in Livestock Production (CAFRE in Northern Ireland)

2010-2016 MSc, Dr. Vet at University of Veterinary Medicine, Budapest

2017-2019 Postgraduate certificate in Livestock production and Animal health, RVC London

Since 2020 owner and director of "Tierärztliche Praxis am Weinberg" in east Germany

Since 2021 owner and director of a 4000 head sow farm in east Germany

Since 2023 part of the vetxperts alliance Germany and Benelux

**Abstract**

Long working days and overtime is a standard in this profession and what is expected of each veterinarian. A 40 hour week appears to be the set standard for an entry level role for the position. Anything less does not seem feasible to employers. The shortage of staff in almost all professions make this a rather undesirable aspect of the role as a swine veterinarian. But does more hours spent on the job automatically mean that there is more money earned? All these factors in mind, our clinic has revised and reformed our working culture. In the last five years, we have specified contracts to the individuals based on our team's feedback. By introducing these individualised contracts we have seen an increase in productivity and revenue per hour. Additionally we started recording working hours, including during farm visits, to be able to recognise overtime as soon as possible. Old routines had to be revised and remodelled to upgrade our working environment and ensure continuous interest and desire to make a positive impact in ones job. Our smart work approach offers our veterinarians greater flexibility to achieve the desired work life balance. Economically this has created a higher profitability in our business and encouraged our staff to further pursue independent projects within the veterinary field. This helps our veterinarians to further identify themselves with their position in our business.



## Keynote lectures

**DR. ESTEVÃO LOPES**

Session: Human resource management

Lecture: **Emotional intelligence as applied in pig farming**THURSDAY, 6<sup>th</sup> JUNE 2024 H. 9.00 – 9.30, Plenary**Biosketch**

Estevao is the founder and president of Estevao Lopes Human Development, where he has trained over 5000 professionals on several topics, such as Human Behavior, Peak Performance, Sales and Leadership. Estevao is a certified trainer (SOAR GI, Febracis), international speaker, mentor and Professor at the Florida Christian University on the USA, where he also got his Master's Degree in Neuromarketing.

Senior Leader at a global company, Estevao has over 20 years of experience in managing different teams in different cultures, always focusing on teamwork, integration and improving performance. Estevao worked with different kinds and sizes of teams, leading small groups as well as large organizations with over 600 employees.

**Abstract**

We live in a unique moment where we are facing a huge technological advancement that is changing our day-to-day lives and behaviors. Both in the country and in the cities, technology is bringing uncountable advantages like a rise in productivity, time optimization, and higher precision in decision-making, just to name a few.

Technology is becoming an extension of our bodies, with our smartphones and all the technological assets we have in our homes, cars, and work. It is hard to imagine today's life without all the support that technology provides us with.

The technology indeed brings us several benefits, but we cannot forget that behind all this technology, there will always be a human being, with feelings, emotions, and skills that the machines cannot replicate. Unique skills are human being characteristics, not machines'.

To the human being, more important than the results, it will always be the journey. On the other hand, artificial intelligence will always provide only results. Considering the moment, we are living in, the importance of developing emotional intelligence increases every day, especially when we are working with lives. Empathy, respect and sensibility are exclusive human being skills and when it comes to pig farming, bring the connection between the man and the animal, improving results.

This lecture will address the importance of emotional intelligence in a technological era and how this competency will supports pig farming's results.



## Keynote lectures

**DR. KAAT GORIS**

Session: Nutrition

Lecture: **Global trends in pig nutrition**THURSDAY, 6<sup>th</sup> JUNE 2024 H. 8.30 – 9.00, Hall 1**Biosketch**

Kaat Goris graduated in 2001 from the Veterinary School of Ghent University, Belgium. She worked at the department Anatomy & Physiology of Antwerp University for 1 year as an assistant while doing research on *Lawsonia intracellularis* in pigs. In 2002 she took the lead in a *Salmonella* project at the Flanders Animal Health Department (DGZ). From 2004 till 2014 she worked as a nutritionist and veterinarian in one of the most important Belgian feed mills (ARVESTA). During this time she completed in 2013 a two year course at the university of Ghent to obtain the degree of 'Professional Swine Veterinarian'.

Since March 2014 she joined Cargill Premix & Nutrition (CAN) as swine application specialist for the West European region. In this role she gives technical support to the WE sales teams, mainly in Benelux, Germany, Austria Italy, Spain and Greece/Cyprus. Furthermore she participates in different internal and external innovation projects, making the bridge between the field and product development.

Kaat is also a member of the IPVS Belgian Branch management committee since 2021.

Cargill, one of the biggest family owned companies, provides food, agriculture, financial and industrial products and services to the world. Cargill has about 160,000 employees in 70 countries and is committed to feeding the world in a responsible way. Cargill has over 150 years of experience and helps people thrive by applying their broad insights and knowhow.

**Abstract**

It is increasingly important for pork production to meet the needs of a growing world population in an efficient, sustainable manner, yet global economic trends and new regulatory constraints have made this task more difficult in recent years. Global increases in energy costs have resulted in lower energy diets being fed, even in regions of the world that have historically fed fats and oils. Thus, strategies to improve feed efficiency through means other than manipulating dietary energy are gaining interest. Further refining nutrient requirements to meet and not exceed the pig's needs remains critical for minimizing waste and optimizing profitability. Likewise, technology continues to improve precision of ingredient knowledge, allowing for the application of more accurate and precise feeding regimes. Enzymes, amino acids, and other feed technologies continue to be leveraged while the industry explores additional solutions, such as renewable protein sources and new feed additive technologies. The sense of urgency to identify alternative solutions continues to grow and is compounded by the pressures of government regulations restricting use of tools such as antibiotics and pharmacological levels of dietary Zn. In turn, the industry's interest in investigating health by nutrition interactions has increased. Extensive work continues relative to dietary modifications on gastrointestinal function and microbiome changes, and linking these changes to measurable outcomes to the producer is an important element. Now more than ever, there is much activity and interest in understanding what role nutrition plays in optimizing pork production and how to fully leverage new information and technologies.



# Up to 4 at once

*From 1 to 4 antigens in just 1 delivery*

## THE IDAL<sup>®</sup> WAY

• Profitability • Well-being • Sustainability •

**Can't wait to see you at****Hall: 2**  
**Stand: n° B10**

## CAPTURING INDIVIDUAL PIG DATA FROM FARROW TO MARKET



## Keynote lectures

**PROF. STEPHAN SCHNEIDER**

Session: Nutrition

Lecture: **Alternative feed sources and feeding strategies**THURSDAY, 6<sup>th</sup> JUNE 2024 H. 9.00 – 9.30, Hall 1**Biosketch**

After training as a farmer, Stephan Schneider studied agriculture at the Weihenstephan University of Applied Sciences. He then worked in the mineral feed industry. He received his doctorate from the Technical University of Munich in 2012 and then worked for 9 years in the field of pig feeding at the Technical Centre for Pig Breeding and Husbandry in Upper Bavaria and as Head of the Pig Feeding Department at the Bavarian State Institute for Agriculture. In 2021, he became Professor of Animal Nutrition at the Nürtingen-Geislingen University of Applied Sciences. There he also manages the two experimental farms and the feed laboratory. He is active in numerous committees in the field of livestock feeding and the associated emissions. His research is currently focused on the climate impact of milk production, the overall environmental impact of livestock farming and mobile housing in the poultry sector. He is regularly invited to speak at congresses and training events organised by companies and farmers.

**Abstract**

Feed costs have a significant influence on the profitability of pork production. Whereas in the past pig feeding was dominated by co-products of human food, nowadays feed rations are often cereal-based with soybean meal as primary plant-protein source. As the world's population and the demand for edible protein increase, the world's pig meat production will grow. However, pork production must become more sustainable. Availability of cereals and soy products will decrease due to their food competition, alternative feed sources and feeding strategies will be necessary. The so-called "novel feed" includes, for example, seaweeds, mussels, insects, refined plant products such as leaf protein concentrates, ... However, these have to be standardized before they can be widely used. The feed value has to be precisely described and the life cycle assessment of the products have to be thoroughly checked beforehand. The use of these products is ultimately determined by their price. Also, the food waste must, in terms of sustainability, be returned to the pig trough after appropriate treatment.

In terms of feeding strategies, there will be on the one hand a high input-high output strategy accomplished through precision livestock farming, which is based on sustainable intensification, maximizing animal protein production efficiency on a limited land surface while minimizing environmental impacts. On the other hand, a reduced input-reduced output strategy based on selecting animals that are more robust to climate change and are better adapted to transform low quality feed (local feeds, feedstuff co-products, food waste) into meat.



## Keynote lectures

**DR. MIGUEL ANGEL HIGUERA**

Session: Welfare and ethology

Lecture: **Global consequences of porcine animal welfare recommendation in the terrestrial code**THURSDAY, 6<sup>th</sup> JUNE 2024 H. 8.30 – 9.00, Hall 2**Biosketch**

Degree in Veterinary Medicine from the Faculty of Veterinary Medicine, UCM. 1995 – 2000  
Director of ANPROGAPOR. National Association of Pig Producers.  
Associate Professor. Faculty of Veterinary Science Alfonso X El Sabio. Madrid

**Professional experience:**

2000-2004. Kubus, S.A. Veterinary Technician and R&D development in swine reproduction.  
2004-2007. Proinserga. Veterinary technician in the production area and Head of the Insemination Centres.  
2007-2010. Technical Director in ANPS (National Association of Select Pig Breeders).  
2010-2011. Assistant to the Director in ANPROGAPOR.  
2012-present. Director of ANPROGAPOR

*More information available on the website  
[www.ipvs2024.com](http://www.ipvs2024.com)*

**Abstract**

Animal welfare, particularly in pigs, has made considerable progress in recent times. In this respect, the European Union with its clear and compulsory rules has set the way forward not only to improve animal husbandry conditions but also to achieve a greater social connection that represents the day-to-day life on the farm: taking care for the animals.

Perhaps from a social point of view, the way we treat animals on farms can focus on very generic aspects such as cages (or individualized confinement) and space. However, animal welfare goes beyond that and other aspects that do not always have to be improved when implementing animal welfare measures must be considered, such as health risks, increased emissions, increased costs, competitiveness and structural changes in farms that modify farm management and handling.

It is necessary to understand the global developments and the positive and negative repercussions of these developments on the daily management of pig production without forgetting that the sector is at the service of consumer demand and that demand can evolve from being price driven to being discarded if minimum standards of animal welfare are not met.





www.vetoquinol.com



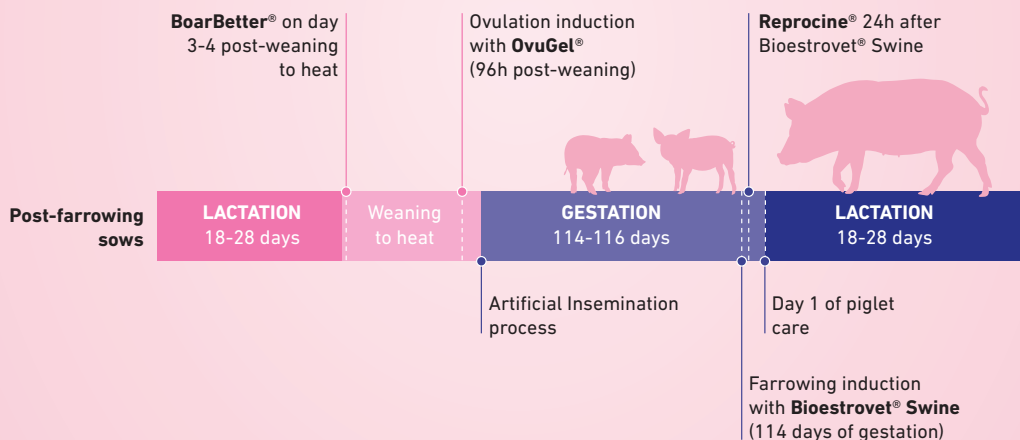
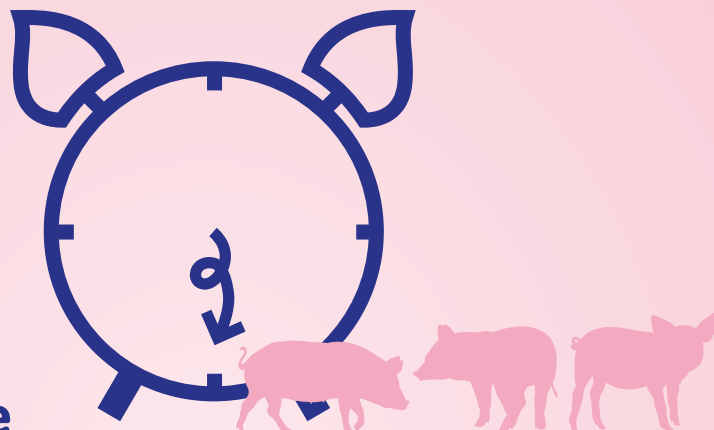
## PRECISWINE

The complete cycle of precisely controlled pig breeding

## Tod-Oink it's the day

Improve the management and performance of your farm

## PreciSwine



PRODUCT FILE



VAGINAL GEL FOR SOWS FOR REPRODUCTION

TECHNICAL FILE



SOLUTION FOR INJECTION FOR CATTLE AND PIGS

TECHNICAL FILE



SOLUTION FOR INJECTION FOR PIGS

TECHNICAL FILE



## Keynote lectures

## DR. HELEEN VAN DE WEERD

Session: Welfare and ethology

Lecture: **European approach to advanced pig welfare**



THURSDAY, 6<sup>th</sup> JUNE 2024 H. 9.00 – 9.30, Hall 2



### Biosketch

Dr Heleen van de Weerd is owner and Director of Cerebrus Advies B.V., an Agri-food consultancy that bridges the gap between scientific research and industry application. She engages with food businesses on farm animal welfare and works with government, corporate and NGO clients, applying animal-welfare knowledge to achieve improvements and policy change. Heleen holds a Master's in Biology-ethology (Wageningen Agricultural University, NL) and a PhD from Utrecht University (NL). She is an internationally recognised expert on farm animal behaviour and welfare with more than 30 years' experience and with 33 fully-refereed publications and 7 book chapters in the field of animal behaviour and welfare science (h-index 28).

Heleen has worked for the European Commission on the evaluations of the EU's animal welfare strategy in 2010 and in 2020, and as an animal welfare expert on a range of EC projects (welfare at slaughter; alternatives to surgical castration of pigs) and most recently, on mapping European animal welfare labels. Heleen has broad knowledge of the global level of animal welfare standards through her specialist consultancy work, e.g., on the Business Benchmark on Farm Animal Welfare (BBFAW) and the Global Coalition for Animal Welfare (GCAW). Heleen has chaired the welfare standard setting working groups on Turkeys and Laying hens & Pullets for RSPCA Assured for 7 years and represents the Netherlands in the World Poultry Science Association's working group on Poultry Welfare and Management. She is an active member of the 3Ts Network, a global network of stakeholders calling for an end to painful piglet procedures. Heleen is the animal behaviour and welfare specialist on the Board of the Dutch AAP Foundation.

### Abstract

Animal welfare remains an important topic in the European Union (EU). Citizens of the 27 member states have repeatedly asked their national governments and the European Commission (EC) to develop policies that will support a quality of life appropriate to all 'sentient beings'. The attitude of Europeans towards animal welfare is monitored by the EC through the so-called Special Eurobarometer, the most recent one was conducted in March 2023. The European Commission used to set out their plans for animal welfare in a Strategy (the last one covered 2012-2015). More recently, the Farm to Fork Strategy announced a new welfare labelling system for animal products. In support of EU policy, the multi-stakeholder EU Platform on Animal Welfare provides advice on animal welfare issues that are relevant for the Union. In addition, a network of EU Reference Centres for Animal Welfare (EURCAWs) supports national Competent Authorities with enforcing EU animal welfare legislation. The European Food Safety Authority (EFSA) provides evidence from the animal's point of view and publishes scientific opinions dealing with welfare on-farm, during transport and at slaughter. In June 2021 the EC responded to the outcomes of a European Citizens' Initiative to 'end the cage age' by promising legislative proposals to phase out the use of all cages for farmed animals. The EC presented some of the new measures at the end of 2023. This keynote presents this intricate network of actors who contribute to the European animal welfare landscape, with a focus on pig welfare.



## Keynote lectures

**PROF. DIRK WERLING**

Session: Infectious agents escape strategies - playing hide and seek

Lecture: **The porcine host and immunological escape**FRIDAY, 7<sup>th</sup> JUNE 2024 H. 8.30 – 9.00, Plenary**Biosketch**

Prof Werling graduated from the Veterinary University in Hannover, before obtaining his DrMedVet (Virology) degree while working at the ETH Zuerich. After several Fellowships, he obtained a PhD in Immunology from the University of London. He is working since 2003 at the Royal Veterinary College (London), initially as Senior Lecturer and since 2007 as Full Professor in Molecular Immunology and since 2018 as Director of the Centre for Vaccinology and Regenerative Medicine. The main research area of his group is to assess the function of the innate immune response in farm animals and evolutionary questions associated with identified differences between farm animals, human and mice. More recently, this work has evolved into functional studies concerning the mucosal immune system and how the microbiome impacts on this, specifically using organ platforms, such as organ-on-a-chip.

**Abstract**

Porcine pathogens, from bacteria, parasites to viruses have evolved a variety of mechanism to evade host immune recognition. The continued spread of the newly emerging, re-emerging, or epidemic pathogens in Africa, Europe and Asia threatens the global pig industry. For many of these pathogens, the lack of effective vaccines limits disease control. Indeed, these pathogens have evolved a variety of encoded immune escape possibilities, resulting in evasion of not only innate but also adaptive immune processes, inducing cellular inflammation, autophagy, or apoptosis in host cells. Frequent persistent infections hinder the development of effective vaccines and impose technical barriers. Currently, for a lot of these pathogens, knowledge of the virulence-related genes, main pathogenic genes and immunoregulatory mechanism is not comprehensive. Here, I will explain some mechanism that porcine pathogens employ to invade the host and to regulate its inflammatory response, including type-I interferon production, antigen presenting cell shut down as well as knock-out of antibodies. Furthermore, I propose potential ideas for vaccine target design, such as knocking out high-virulence genes using CRISP/Cas or TRADIS approaches and performing data mining to identify the main genes that induce antiviral responses. To support a rational strategy for vaccine development, a better understanding of how these pathogens interact with the host and regulate the host's response to infection is needed.

## Keynote lectures

**PROF. THOMAS VAHLENKAMP**

Session: Infectious agents escape strategies - playing hide and seek

Lecture: **Pathogen strategies of immune evasion**FRIDAY, 7<sup>th</sup> JUNE 2024 H. 9.00 – 9.30, Plenary**Biosketch**

2023 – today Head of the PRRSV consultation laboratory, German Veterinary Medical Society (DVG)  
 2019 – today Dean, Faculty of Veterinary Medicine, Leipzig University  
 2016 – 2019 Vice-Dean, Faculty of Veterinary Medicine, Leipzig University  
 2013 – 2016 Dean of Studies, Faculty of Veterinary Medicine, Leipzig University (Germany)  
 2010 – today Director, Institute of Virology, Faculty of Veterinary Medicine, Leipzig University (Germany)  
 2010 Director, Institute of Infectology, Friedrich-Loeffler-Institut, Greifswald-Insel Riems (Germany)  
 2005 Habilitation for 'Virology' and 'Immunology' at the Department of Veterinary Medicine, Free University Berlin (Germany)  
 2004 – 2009 Senior Scientist and Personal Assistant to the President, Friedrich-Loeffler-Institut, Greifswald-Insel Riems (Germany)  
 2003 – 2004 Assistant Professor, Immunology Unit, College of Veterinary Medicine, North Carolina State University, Raleigh, NC (USA)  
 2000 – 2003 Post-doctoral Fellow, Immunology Unit, College of Veterinary Medicine, North Carolina State University, Raleigh, NC (USA)  
 1998 Philosophical doctor (Ph.D.), Utrecht University (The Netherlands)  
 1997 – 2000 Research Assistant (CI), Institute of Virology, Faculty of Veterinary Medicine, Leipzig University (Germany)  
 1993 Dissertation (Dr. med. vet., Ludwig-Maximilians-University, Munich (Germany))  
 1991 – 1997 Virology Unit, Department for Infectious Diseases and Immunology, Faculty of Veterinary Medicine, Utrecht University (The Netherlands)  
 1985 – 1991 Study of Veterinary Medicine, Faculty of Veterinary Medicine, Ludwig-Maximilians-University, Munich (Germany)

**Abstract**

Pathogens have developed remarkably sophisticated mechanisms to avoid the various host protective immune responses. In order to avoid host innate and adaptive immune responses viral examples include (i) shutdown of host macromolecule synthesis, (ii) avoidance of CTL-mediated killing of infected cells, (iii) prevention of NK-cell-mediated lysis of infected cells, (iv) interference with apoptosis, (v) counter defenses against cytokines, (vi) evasion of antiviral state, and (vii) pathogen-specific gene silencing pathways. The innate immune response is crucial as first line of defence but also to stimulate the initiation of an adequate adaptive immune response. Examples of pig pathogens interfering with these innate and adaptive immune response mechanisms include among others pseudorabies virus (PRV), porcine circovirus (PCV-2), porcine reproductive and respiratory syndrome virus (PRRSV), porcine epidemic diarrhea virus (PEDV), porcine delta corona virus (PDCoV), african swine fever virus (ASFV) and swine influenza virus (SIV). Many viruses inhibit normal transcription and/or translation of cellular proteins to subvert the machinery of the infected cell for production of progeny virions. This rapid shutdown of the host cell quickly impairs the innate immune response, including the production of critical proteins such as class I MHC antigen and antiviral cytokines such as type I IFN.



## CIRCOMAX® (FOSTERA® GOLD PCV<sup>1</sup>) & CIRCOMAX® MYCO (FOSTERA® GOLD PCV MH<sup>2</sup>) THE ONLY DUAL PCV2 GENOTYPE VACCINES - FOR A BROADER COVERAGE\*

- Containing PCV2a and PCV2b for a broader coverage\*
- Proven, long protection (23 weeks) – against PCV2a, PCV2b and PCV2d
- With MetaStim® for an effective immune response
- Ready to use with and without *M. hyopneumoniae*

\*Based on the comparison of the homology of the epitopes using the EpiVax-methodology

1: Fosterera® Gold PCV is the name of CircoMax® in several markets worldwide 2: Fosterera® Gold PCV MH is the name of CircoMax® Myco in several markets worldwide

The summary of the product characteristics can be accessed using the following QR-Code:



CircoMax® Myco  
German



CircoMax® Myco  
English



CircoMax®  
German



CircoMax®  
English

zoetis

MM-32439/2024\_03

## Keynote lectures

# DR. CARLOS PIÑEIRO

Session: PLF (Precision Livestock Farming) and  
herd health management

Lecture: **PLF implementation in pig farming**



FRIDAY, 7<sup>th</sup> JUNE 2024 H. 8.30 – 9.00, Hall 1



## Biosketch EDUCATION

Veterinarian by the U Complutense de Madrid, Diploma of Advanced Studies in Animal Production by the U Politécnica de Madrid and PhD by the U of Meiji-Tokyo, Diploma by the European College of Porcine Health Management, and specialist in Environmental Impact Assessment by the U Politécnica de Madrid. Member of the Spanish Working Group for the discussion of the Industrial Emissions Directive. Member of the Spanish Focal Group for the Digitalisation and Big Data of the Agro-livestock sector in Spain and member of the Board of Directors of the National Association of Scientific Pig Farming (ANAPORC).

For 23 years, Director of Animal Data Analytics SL, working currently in Europe, LatAm and Asia.

## PROFESSIONAL EXPERIENCE:

Expert in data management and analysis in animal production and health. Expert in applied research under commercial conditions. Director of 42 national and international applied research projects, 44 publications in indexed scientific journals, 181 communications in scientific congresses and 8 chapters in books specialised in production, animal health and environment. A regular contributor to journals and websites.

## Abstract

The swine industry is struggling with uncertain and challenging times. Raw materials availability and feed prices related to weather in different parts of the world, endemic and epidemic diseases and zoonosis, the restrictions in antibiotics used to tackle antimicrobial resistance, welfare regulations, environmental emissions control, either related with nitrogen and CO<sub>2</sub>, biosecurity growing standards, social pressure, including anti-meat organizations and a general lack of farm staff properly trained defines a demanding scenario, although this factors show a high variation worldwide.

The main goal is sustainability, including its three components: efficiency, environmental emissions, and social aspects. There is widespread agreement that the only way to achieve sustainability is through the digitalization of the sector, using in a routine those tools that generate data that later on will be used smartly to answer the questions that will drive both the daily and strategic demands of the industry. Now, the technology is, in many cases, mature enough to be used reliably. Moreover, the knowledge about the digitalization process generates a massive amount of data from different sources that can be used now to generate high-quality information, not only to generate alerts and dashboards for monitoring, generally present, but also to run explanatory statistics, different types of artificial intelligence algorithms (mostly machine learning) running real-time to almost real-time and even prescriptive analytics that reinforce the role of the swine vet, involving every area of the productive chain. Well-used, they are terrific tools for swine vets.



## Keynote lectures

**PROF. LIANG CHOU HSIA**

Session: PLF (Precision Livestock Farming) and  
herd health management

Lecture: **The circular pig farming: a possibility for the future?**



FRIDAY, 7<sup>th</sup> JUNE 2024 H. 9.00 – 9.30, Hall 1

**Biosketch**

Prof. Liang Chou Hsia is an emeritus professor of National Pingtung University of Science and Technology, Taiwan. He has served more than 45 years and widely recognized for his contribution to research, teaching and international collaboration in the field of animal production and sciences. He still puts a lot of efforts on research in environment, nutrition, behavior, extension and interaction among them, consequence on greenhouse gases, housing, welfare, and small farmer development.

**Abstract**

Accurate and circular pig farming not only reduces the cost of farms but also minimizes waste from pig farms. Ideal protein, balanced nutrition, and some feed additives are accurate farming; they can reduce waste. A circular pig farm can be divided into three stages. The first stage is to use primary waste from pig farms to transfer to fertilizer. A lot of new technology is still being developed which includes compost methods, ways to reduce compost time, and automation compost facilities. The second stage is how to use animal waste more efficiently. It includes the ways to use formulated compost for vegetable or fruit efficiency, to use and reduce compost by-products, CH<sub>4</sub>, NH<sub>3</sub>, CO<sub>2</sub>, H<sub>2</sub>S, and odor, to use CH<sub>4</sub> property to produce energy and electricity more efficiently. How to produce much purer CH<sub>4</sub> has become very important, e.g. how to increase the density of CH<sub>4</sub> and the methods to reduce H<sub>2</sub>S and water in methane gas. The methods to use sludge, which is produced during anaerobic digestion, for vegetables. The last stage is how to reduce greenhouse gases during pig farming. There are several methods to reduce greenhouse gases. The ideal protein of feeds can reduce N<sub>2</sub>O production. Low heat stress can reduce CO<sub>2</sub> production. Good management on animal production can reduce GHG, good breeding methods, and good health management (minimize diseases in pig herd). All the 3 stages + 1 management are key points in the circular pig farming system.

## Detailed

**PROGRAMME**

TUESDAY, 4<sup>th</sup> JUNE 2024

WEDNESDAY, 5<sup>th</sup> JUNE 2024

THURSDAY, 6<sup>th</sup> JUNE 2024

FRIDAY, 7<sup>th</sup> JUNE 2024



4

Tuesday  
June

13.00-19.00 Registration &amp; Exhibition opening

**Hall 1**

14.00-15.30 Boehringer Ingelheim Symposium: "The global pig industry: A volatile market full of opportunities to succeed" Speakers:  
Dr. Martin Pfützner, Dr. Joel Nerem, DV, Prof. Daniel C. L. Linhares, DVM, PhD, MB

**Hall 2**

14.00 - 15.30 Farmabase Animal Health Symposium: "Mycoplasmic Pneumonia - Control and Updates" Speakers: Maria Clavijo (DVM, PhD) and Suzana Satomi Kuchiishi (DMV, PhD) invited by Eco Animal Health

**Plenary**

16.00-16.30 Opening Ceremony

16.30-17.15 Tom Alexander Memorial Lecture, *Prof. Jeffrey Zimmerman***Hall 3**

17.15-18.15 ECPHM Annual General Meeting (Diplomates and Residents only)

**Exhibition Hall 2**

17.30-19.00 Welcome Reception



5

Wednesday  
June

8.30-10.00

**Plenary****KEYNOTE SESSION: VIROLOGY AND VIRAL DISEASES***Chaired by Prof. Thomas Vahlenkamp and Prof. Mathias Ritzmann*

8.30-9.00

New technologies applied to vaccine development: what can we expect?, *Prof. Hua-Ji Qiu*

9.00- 9.30

Emerging viral diseases: recent global threats, *Prof. Janice Reis Ciacchi Zanella*

9.30-10.00

Round table discussion

**Hall 1**

8.30-10.00

**KEYNOTE SESSION: MANAGEMENT OF CRISIS AND DISASTERS***Chaired by Dr. Pat Kirwan and Dr. Martin Pfützner*

8.30-9.00

When lightning strikes: strategies of crisis and disaster management, *Dr. Ludovic Plee*

9.00-9.30

Practical emergency management of ASF in Romania, *Dr. Adrian Balaban*

9.30-10.00

Round Table Discussion

**Hall 2**

8.30-10.00

**KEYNOTE SESSION: REPRODUCTION***Chaired by Prof. Johannes Kauffold and Prof. Fernanda Almeida*

8.30-9.00

Management and future of hyperprolific sows, *Mr. Thomas Sønderby Bruun*

9.00-9.30

Optimizing production and uptake of colostrum and milk, *Prof. Chantal Farmer*

9.30-10.00

Round table discussion

10.00-10.30

Coffee Break &amp; Poster Viewing

10.30-12.10

**Oral presentations****Plenary****VIROLOGY AND VIRAL DISEASES***Chaired by Dr. Matthias Eddicks and Prof. Andrea Ladinig***Hall 1****ONE HEALTH: VETERINARY PUBLIC HEALTH AND SUSTAINABLE PIG PRODUCTION***Chaired by Prof. Thomas Blaha and Prof. Diana Meemken***Hall 2****REPRODUCTION***Chaired by Prof. Olli Peltoniemi and Dr. Alexander Grahofer*



## Hall 3

**ECPHM RESIDENT SESSION***Chaired by Dr. Manon Houben and Dr. Andreas Palzer*

12.10- 13.30 Lunch &amp; Poster Viewing &amp; Chaired Poster Presentations

13.30-14.50 **Oral presentations**

## Plenary

**VIROLOGY AND VIRAL DISEASES***Chaired by Prof. Joaquim Ségales and Dr. Magdalena Czaplińska-Możdżeń*

## Hall 1

**ONE HEALTH: VETERINARY PUBLIC HEALTH AND SUSTAINABLE PIG PRODUCTION***Chaired by Prof. Nicole Kemper and Dr. Carl Andreas Grøntvedt*

## Hall 2

**REPRODUCTION***Chaired by Prof. Gary Althouse and Prof. Mari Heinonen*

## Hall 3

**PARASITOLOGY***Chaired by Prof. Friedrich Schmoll and Dr. Tatjana Sattler*

14.50-15.20 Coffee Break &amp; Poster Viewing

15.20-16.40 **Oral presentations**

## Plenary

**VIROLOGY AND VIRAL DISEASES***Chaired by Prof. Hanchun Yang and Prof. Janice Reis Ciacci Zanella*

## Hall 1

**ONE HEALTH: VETERINARY PUBLIC HEALTH AND SUSTAINABLE PIG PRODUCTION***Chaired by Dr. Christine Unterweger and Prof. Dolf Kümmerlen*

## Hall 2

**REPRODUCTION***Chaired by Prof. Panagiotis Tassis and Dr. Claudio Oliviero*

## Hall 3

**CLINICAL CLUB***Chaired by Dr. Tijs Tobias*

16.40-17.00

Poster Viewing

**5**  
Wednesday  
June

17.00 – 18.30

## Plenary

## Zoetis Symposium

"Predictability for virus evolution &amp; Immuno-epidemiology

From the lab to the farm: Applying science-based Knowledge &amp; Artificial Intelligence tools to Fight Swine Diseases in the field"

17.00 – 18.30

## Hall 1

## HIPRA Symposium

"Understanding immunity leakages to produce healthy pigs"

**SAN**  
VET



**ANICON**

**VETERINARY DIAGNOSTICS & SERVICES**

Pathology, Virology, Bakteriology,  
Serology, PCR & Sequencing

**Quick clarity for efficient advice**

**ANIVAC**

**CUSTOM-MADE VACCINES**

Virus-Vaccines, Mycoplasma-Vaccines,  
Bacterial-Vaccines, Combi-Vaccines,  
Maternity-Vaccines

**Tailor-made prophylaxis**

**Contact us:**

SAN Group Biotech Germany GmbH  
Muehlenstrasse 13 · 49685 Hoeltinghausen  
+49 4473 94 38 – 30 · office-de@san-group.com

**WWW.SAN-VET.COM • WWW.ANICON.EU**

**SAN Vet, ANICON, ANIVAC  
are SAN Group brands.**

**Passion for Innovation**

# Oral PRESENTATIONS

10.30-12.10

20 minutes each (15' presentation and 5' discussion)

## VIROLOGY AND VIRAL DISEASES

### Plenary

**Chaired by Dr. Matthias Eddicks and Prof. Andrea Ladinig**

#### VVD-OP-01

PREDICTING PRRSV-2 VARIANT EMERGENCE: INSIGHTS FROM A DECADE OF GENOMIC ANALYSIS

N. Pamornchainavakul, M. Kikuti, I.A. Paploski, C. Corzo, K. Vanderwaal

#### VVD-OP-02

CHARACTERIZATION OF THE HIGHLY PATHOGENIC PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME VIRUS ROSALIA STRAIN IN NURSERY PIGS UNDER EXPERIMENTAL CONDITIONS

A.M. Stoian, P. Curto, A. Pey, A. Trabal, E. Aulinas, J. Baliellas, M. Montoya, L. Fraile

#### VVD-OP-03

EXPERIMENTAL ASSESSMENT OF THE EFFICACY OF AN MLV PRRS VACCINE AGAINST CHALLENGE WITH HIGHLY VIRULENT PRRSV-1 STRAIN ROSALIA

E. Mateu, M. Cortey, I. Domingo, M. Marcos, R. Menjon, S. Von Berg, M. Jiménez

#### VVD-OP-04

PERCOLATION OF VIRUS: A POSSIBLE TRANSMISSION ROUTE FOR PRRS VIRUS

J. Alvarez-Norambuena, A. Quinonez, S. Goyal, C. Corzo

#### VVD-OP-05

DO HERDS CLOSE TO MAIN ROADS HAVE HIGHER PRRS PREVALENCE?

M. Fertner, J. Snitgaard Pelck

## ONE HEALTH

### Hall 1

**Chaired by Prof. Thomas Blaha and Prof. Diana Meemken**

#### VPH-OP-01

NATIONAL SWINE INFLUENZA SURVEILLANCE PROGRAM IN THE NETHERLANDS, 2022-2023

L. Dieste-Pérez, T. Tobias, E. Van Der Vries, E. Germeraad, A. Kroneman, J. Van Der Giessen, D. Eggink, A. Meijer, R. Fouchier, M. Houben

#### VPH-OP-02

EVALUATING DIFFERENT SAMPLE TYPES AND POOLING STRATEGIES FOR OPTIMIZING INFLUENZA A VIRUS DETECTION IN BREEDING HERDS: IMPLICATIONS FOR MONITORING AND SAMPLE SIZE CALCULATIONS

D. Moraes, H. Osemeke, P. Gauger, C. Moura, G. Trevisan, G. Silva, D.C. Linhares



Wednesday  
June

#### VPH-OP-03

RETROSPECTIVE ANALYSIS OF SLAUGHTER DATA OF IMMUNOCASTRATED BOARS FROM A SLAUGHTERHOUSE IN NORTHERN GERMANY IN COMPARISON TO GILTS, BARROWS AND ENTIRE MALES

S. Asanger, M. Verhaagh, Y. Zablotki, S. Gumbert, M. Ritzmann, S. Zöls

#### VPH-OP-04

ANTIMICROBIAL ACTIVITY OF SILVER NANOPARTICLE INHIBITS AGAINST ESCHERICHIA COLI ISOLATED FROM FRESH BOAR SEMEN

B. Juntanupong, P. Chanapiwat, N. Ngamwongsatit, S. Wirasate, K. Sirisinha, K. Kaeoket

#### VPH-OP-05

DIPTERIC FLIES AS LIVING VECTORS TRANSMITTING MRSA IN PIGLET PRODUCING FARMS

F. Hamar, I. Loncaric, T. Bernreiter-Hofer, A. Käsbohrer, A. Ladinig, L. Schwarz

## REPRODUCTION

### Hall 2

**Chaired by Prof. Olli Peltoniemi and Dr. Alexander Grahofer**

#### REP-OP-01

NORMAL BIRTHWEIGHT AND INTRAUTERINE GROWTH RESTRICTED PIGS PRESENT DIFFERENT DYNAMICS OF MICROBIOTA-RELATED METABOLIC PATHWAYS THROUGHOUT POSTNATAL LIFE

S.D. Fernandes, F.F. Aburjaile, T.G. Santos, R.D.O. Carvalho, V. Azevedo, B. Brenig, F.R. C. L. De Almeida

#### REP-OP-02

INFLUENCE OF INSEMINATOR AND ARTIFICIAL INSEMINATION MANAGEMENT ON REPRODUCTIVE PERFORMANCE CHARACTERISTICS IN SOW HERDS

L. Walther, B. Vidondo, A. Grahofer

#### REP-OP-03

MATERNAL PRRSV INFECTION AND ITS CONSEQUENCES ON FETAL MICROBIAL COMPOSITION: AN EXPERIMENTAL STUDY

H. Kreutzmann, B. Metzler-Zebeli, S. Koger, U. Ruczizka, M. Koch, M. Zaruba, T. Rümenapf, A. Ladinig

#### REP-OP-04

HIGHER PIGLET VITALITY AT BIRTH LEADS TO INCREASED COLOSTRUM INTAKE AND LOWER MORTALITY

R. Carnevale, B. Bracco Donatelli Muro, M.S. Monteiro, A. Augusto Justo, B.B. Carnino, P.D.V. Firminiano, M. Ambroso Adib Donato Henriques, C. Tavares Meloto, A. Nunes Reis, G. Salvador Cardoso, L. Braselino Borges, C.A. Pospissil Garbossa, F.V.S. Junior

#### REP-OP-05

TRANSVAGINAL OVUM PICK-UP IN SOWS: IMPACTS ON WELFARE, REPRODUCTION, AND FUTURE APPLICATIONS

A. Oltedal, A.H. Gaustad, O. Peltoniemi, S. Björkman, M. Oropeza-Moe

Oral  
PRESENTATIONS

# Oral PRESENTATIONS

10.30-12.10

20 minutes each (15' presentation and 5' discussion)

## ECPHM RESIDENT SESSION

Hall 3

Chaired by Dr. Manon Houben and Dr. Andreas Palzer

### RES-OP-01

A COMPARISON OF TWO SYSTEMS FOR GROUP HOUSING OF SOWS - EFFECTS ON PRODUCTIVITY, REMOVAL, AND TREATMENTS

K. Ryytty Sylvén, T. Wallgren, P. Almerheim, L. Eliasson- Selling, M. Jacobson, P. Wallgren

### RES-OP-02

LEAKY GUT – A REASON FOR FAILURE TO THRIVE?

L. Schwarz, H. Kreutzmann, I. Loncaric, J. Spargser, R. Brunthaler, H. Weissenböck, S. Gabner, A. Griessler, B. Doupovec, S. Figl, A. Ladinig

### RES-OP-03

DESCRIPTIVE STUDY OF THE CARRIAGE OF STREPTOCOCCUS SUIS AND SEROTYPES 2, 1/2 AND 9 IN TWO FRENCH FARMS PRESENTING CLINICAL CASES OF STREPTOCOCCOSIS

M. Rémond, E. Lewandowski, V. Muller, C. Puyal-Rucine, A. Lehebel, H. Gantelet, C. Deboissésou, C. Marois-Crehan, C. Belloc

### RES-OP-04

CIRCADIAN TEMPERATURE RHYTHM IN REPRODUCTIVE SWINE: DIFFERENCES BETWEEN SEASONS IN A SUBTROPICAL CLIMATE AREA (SOUTH-EAST SPAIN)

P. Sánchez-Giménez, A. Martínez-Nicolás, J.A. Madrid, R. Fernández-Rodríguez, L. Martínez-Alarcón, F. Murciano, A. Muñoz-Luna, G. Ramis

### RES-OP-05

DETECTION OF MCR-1 POSITIVE ENTEROPATHOGENIC ESCHERICHIA COLI ISOLATES ASSOCIATED WITH POST-WEANING DIARRHOEA IN AN AUSTRIAN ORGANIC PIGLET PRODUCING FARM

R. Renzhammer, L. Schwarz, A. Cabal Rosel, W. Ruppitsch, A. Fuchs, E. Simetzberger, A. Ladinig, I. Loncaric



Wednesday  
June

# Chaired Poster PRESENTATIONS

12.20-13.00

Poster Area

5 minutes each (3' presentation and 2' discussion)

## NUTRITION

Chaired by Dr. Pat Kirwan - *E-poster station n. 5*

### NUTR-CP-01

DIETARY FIBER INCLUSION IN TRANSITION DIET MODULATES SOWS' BODY CONDITION AT FARROWING AND WEANING

B. Bracco Donatelli Muro, R. Carnevale, M.S. Monteiro, D. Feitosa Leal, F.A. Pereira, C.A. Pospissil Garbossa

### NUTR-CP-02

EARLY POST-NATAL NUTRITION WITH AN ISOTONIC PROTEIN DRINK REDUCED PIGLET PRE-WEANING MORTALITY BY 22% - AN ANALYSIS OF 91 STUDIES

S.G. Buzoianu, C. Putrino, A.M. Firth

### NUTR-CP-03

FIBRE DEGRADING ENZYME AND PROBIOTIC COMBINATION EFFECTIVELY IMPROVE PIGLET PERFORMANCE AND SUPPORT INTESTINAL DEVELOPMENT

N. Soares, T. Poeikhampha

### NUTR-CP-04

EFFECT OF GRUEL AND TONISITY PX ON WEIGHT GAIN AND MORTALITY DURING THE POST-WEANING PERIOD

F. Vangroenweghe, E. Folens

### NUTR-CP-05

ALGAE-DERIVED B-GLUCAN SUPPLEMENTATION IN LATE GESTATION ENHANCED COLOSTRUM IMMUNOGLOBULIN AND PIGLET PERFORMANCE

J. Ruampatana, U. Yamsrikaew, P. Preesong, S. Nantakhruea, M. Nuntapaitoon

### NUTR-CP-06

PHYSICO-CHEMICAL PROPERTIES OF SOLUBLE AND INSOLUBLE DIETARY FIBER SOURCES

B. Bracco Donatelli Muro, R. Carnevale, M.S. Monteiro, R. Scalise Xavier De Freitas, I. Cláudio Da Silva Bueno, D. Alexsander Rojas Moreno, D. Feitosa Leal, F.A. Pereira, C. Abércio Da Silva, C.A. Pospissil Garbossa

### NUTR-CP-07

PERFORMANCE GROWING AND FINISHING PIGS SUPPLEMENTED WITH AN ALTERNATIVE SOURCE OF PHOSPHORUS AS A REPLACEMENT TO DICALCIUM PHOSPHATE

A.L.B. Mezzina, N.D.A.C. Gomes, F.A. Coelho, L.K.S. Alves, M.S. Monteiro, C.A. Pospissil Garbossa

Chaired Poster  
**PRESENTATIONS**



## Chaired Poster PRESENTATIONS

12.20-13.00

### Poster Area

5 minutes each (3' presentation and 2' discussion)

5

Wednesday  
June

#### NUTR-CP-08

SUPPLEMENTATION OF A B-MANNANASE ENZYME TO DIETS WITH A REDUCED NE CONTENT SUPPORTS POST-WEANING PIGLET PERFORMANCE DURING A PRRSV OUTBREAK UNDER FIELD CONDITIONS

F. Vangroenweghe, A. De Bruijn, G. Vandenbussche, P. Joye

## PLF (PRECISION LIVESTOCK FARMING)

Chaired by Prof. Doris Höltig - *E-poster station n. 2*

#### PLF-CP-01

DATA AND TECHNOLOGY APPLICATION IN PIG HEALTH AND WELFARE MANAGEMENT: A FOCUS GROUP STUDY OF VETERINARIANS IN IRELAND, THE NETHERLANDS AND SPAIN

X. Zhou, B. Garcia-Morante, A. Burrell, L. Dieste-Pérez, K. Eenink, C. Correia-Gomes, J. Segalés, M. Sibila, T. Tobias, C. Vilalta, A. Bearth

#### PLF-CP-02

MACHINE LEARNING ACCURATELY PREDICTS INFECTION IN SWINE FARMS

A. Halev, B. Martínez-López, M.J. Clavijo, C. Gonzalez-crespo, J. Kim, C. Huang, S. Krantz, R. Robbins, X. Liu

#### PLF-CP-03

SOUND-MONITORING VISUALIZATION OF AN HP-PRRS VIRUS STRAIN OUTBREAK AFTER LATERAL INFECTION IN A SPANISH NURSERY

S. Figueras, T. Guiu, C. Alonso, F. Erusalimsky

#### PLF-CP-04

RESPIRATORY HEALTH STATUS, MEASURED BY A SOUND-BASED TECHNOLOGY, IMPACTS GROWTH OF FINISHING PIGS

V. Thuring, M. Steenaert, C. Alonso, H. Prüst

#### PLF-CP-05

RESPIRATORY HEALTH STATUS IMPACT ON PRODUCTION PERFORMANCE MEASURED BY SOUND-MONITORING DEVICE IN A FATTENING FARM IN HUNGARY

K. Kerenyi, B. Woeller, B. Kartalik, G. Lopez-Moreno, C. Alonso

## MISCELLANEOUS

Chaired by Dr. Andreas Palzer - *E-poster station n. 1*

#### MIS-CP-01

BOTRYOMYCOSIS OF SWINE MAMMARY DERMAL TISSUE, A RE-ACQUAINTANCE

E. Rooijakkers, M. Kanter, N. De Bruijn, T. Tobias

#### MIS-CP-02

PATHOLOGICAL FINDINGS IN CLAWS FROM 21 LAME SOWS

H. Bak, S. Haugegaard, L.U. Hansen

#### MIS-CP-03

EFFECT OF PASTEURELLA MULTOCIDA ON PERFORMANCE OF A SOW HERD

A. Labuscagne

#### MIS-CP-04

CASE REPORT OF A CLINICAL PULMONARY MANIFESTATION OF ASCARIS SUUM IN A FINISHING PIG HERD

I. Spiekermeier, M. Beumer, M. Heimann, D. Meyer

#### MIS-CP-05

EXPLORING THE RELATIONSHIP BETWEEN CLINICAL LAWSONIA INTRACELLULARIS INFECTION AND HEMORRHAGIC BOWEL SYNDROME: A RETROSPECTIVE ANALYSIS OF POST-MORTEM EXAMINATIONS

H. Kreutzmann, K. Junker, C. Sanderman, S. Klarenbeek, T. Tobias

#### MIS-CP-06

VETERINARY STUDENTS' INTEREST IN PORCINE HEALTH MANAGEMENT, A GLOBAL SURVEY

K.S. Pedersen, A. Ladinig, R. Guedes, G. Almond

## VIROLOGY AND VIRAL DISEASES

Chaired by Prof. Thomas Vahlenkamp - *E-poster station n. 3*

#### VVD-CP-01

RECOMMENDATIONS FOR SAMPLING AND SHIPMENT OF MATERIALS FOR PCR-TESTS FOR SURVEILLANCE OF PRRS-VIRUS IN DANISH HERDS

E.O. Nielsen, L.K. Kvisgaard, C.K. Hjulsager, A. Droce, L.E. Larsen

#### VVD-CP-02

REPEAT OFFENDERS: PRRSV-2 CLINICAL RE-BREAKS FROM A WHOLE GENOME PERSPECTIVE

J. Baker, A. Rovira, K. Vanderwaal

#### VVD-CP-03

A DECADE-LONG RETROSPECTIVE STUDY ON PORCINE EPIDEMIC DIARRHEA VIRUS (PEDV) ASSOCIATED FACTORS TO TIME-TO-STABILITY AND TIME-IN-POSITIVE IN UNITED STATES BREEDING HERDS

X. Yue, M. Kikuti, M. Melini, C. Corzo

Chaired Poster  
**PRESENTATIONS**

## Chaired Poster PRESENTATIONS

12.20-13.00

### Poster Area

5 minutes each (3' presentation and 2' discussion)

#### VVD-CP-04

EFFECT OF STABILIZERS ON THE DETECTION OF SWINE INFLUENZA A VIRUS (SWIAV) IN SPIKED ORAL FLUIDS AND FIELD SAMPLES

J. Stadler, K. Grau, M. Ritzmann, K. Lillie-Jaschniski, A. Graaf-Rau, T. Harder

#### VVD-CP-05

EVOLUTION AND ATTENUATION OF PORCINE EPIDEMIC DIARRHEA VIRUS FOLLOWING IN VITRO AND IN VIVO PROPAGATION

P. Jermutjarit, S. Mebumroong, P. Watcharavongtip, H. Lin, A. Tantituvanont, K. Kaeoket, P. Piñeyro, D. Nilubol

#### VVD-CP-06

DEVELOPMENT, EVALUATION, AND CLINICAL APPLICATION OF PRRSV-2 VACCINE-LIKE REAL-TIME RT-PCR ASSAYS

G. Rawal, K. Krueger, W. Yim-Im, G. Li, P. Gauger, M. Almeida, E. Aljets, J. Zhang

#### VVD-CP-07

EFFECT OF PCV2 VACCINATION IN SOW'S REPRODUCTION PARAMETERS IN A SPF FARM

J. Zhang, A. Zeng, R. Krejci, P. Mazerolles, J. Carr

#### VVD-CP-08

EFFECT OF THE IMPLEMENTATION OF RESPIPORC FLUPAN ON REPRODUCTIVE PERFORMANCE ON A PIG FARM IN THE UNITED KINGDOM

T. Hill, E. Velazquez, C. Gale

## WELFARE AND ETHOLOGY

Chaired by Prof. Elisabeth grosse Beilage - *E-poster station n. 4*

#### WEL-CP-01

EFFECT OF PIG SYNTHETIC PHEROMONES AND POSITIVE HANDLING OF SOWS ON THE PRODUCTIVITY OF NURSERY PIGS

D. De Meyer, I. Chantziaras, A. Amalraj, D. Maes

#### WEL-CP-02

DIFFERENTIAL EXPRESSION IN LIVER TRANSCRIPTOMICS OF PIGLETS WITH DIFFERENT DEGREES OF SWINE INFLAMMATION AND NECROSIS SYNDROME

K. Gerhards, S. Becker, H. Willems, G. Reiner

5

Wednesday  
June

#### WEL-CP-03

NEST MATERIAL DECREASES SHAW CHEWING, BAR BITING AND CAGE INTERACTION AROUND FARROWING IN CRATED GILTS

M.S. Monteiro, B. Bracco Donatelli Muro, R. Carnevale, M.V.B. Nicolino, A.L.B. Mezzina, H.R. Geremias, T.M.P. Lima, C. Veloso, C.A. Pospissil Garbossa

#### WEL-CP-04

ACOUSTIC ENVIRONMENTAL ENRICHMENT FOR ENHANCED ANIMAL WELFARE IN SWINE

H. Fried, S. Becker, G. Reiner

#### WEL-CP-05

EVALUATION OF THE EFFICACY AND SAFETY OF PROCAINE HYDROCHLORIDE PLUS EPINEPHRINE APPLIED INTO THE TESTICLE FOR ANALGESIA BEFORE CASTRATION OF PIGLETS AGED UP TO 7 DAYS

A. Rostalski, L. Naderer, C. Schneider, A. Randt, K. Hellmann

#### WEL-CP-06

DEVELOPMENT OF THE UDDER IN SOWS DURING FOUR LACTATIONS

F. Thorup

#### WEL-CP-07

COMPARISON OF LABOUR TIME, COST, ADVANTAGES/DISADVANTAGES OF FOUR METHODS TO EVALUATE THE GESTATING SOWS' FIGHT INTENSITY

E. Cantaloube, A. Taktak, L. Gautier, T. Gin

Chaired Poster  
**PRESENTATIONS**

# Oral PRESENTATIONS

13.30-14.50

20 minutes each (15' presentation and 5' discussion)

## VIROLOGY AND VIRAL DISEASES

### Plenary

**Chaired by Prof. Joaquim Ségales and Dr. Magdalena Czaplińska-Możdżeń**

#### VVD-OP-06

ASSESSMENT OF VIREMIA, ANTIBODY RESPONSE, SURVIVAL RATES, SHEDDING TO SENTINELS AND PERSISTENT INFECTION OF PIGS FOLLOWING NATURAL FIELD AFRICAN SWINE FEVER VIRUS EXPOSURE

D. Venkateswaran, S. Muhammad, R. Suntisukwattana, W. Atthaapa, P. Jernsutjarit, P. Watcharavongtip, D. Nilubol

#### VVD-OP-07

EFFICACY OF IN-FEED IMMUNE-BOOSTING COMPLEX ON REDUCING THE INCIDENCE, LATE ONSET OF ASF SYMPTOMS AND RELATED SEROLOGICAL PARAMETERS IN EXPERIMENTALLY CHALLENGED ASFV PIGS

V.T. Nguyen, M. Sevastiyanova, A. Khadem, C. Gougoulas, V.P. Le

#### VVD-OP-08

AFRICAN SWINE FEVER - LESSONS LEARNT FROM RECENT ANIMAL TRIALS

V. Friedrichs, S. Blome

#### VVD-OP-09

RETROSPECTIVE DETECTION OF PORCINE CIRCOVIRUSES IN PORCINE DERMATITIS AND NEPHROPATHY SYNDROME CASES

A. Cobos, M. Domingo, M. Perez, E. Huerta, A. Llorens, M. Sibila, J. Segales

## ONE HEALTH

### Hall 1

**Chaired by Prof. Nicole Kemper and Dr. Carl Andreas Grøntvedt**

#### VPH-OP-06

FOR THE BENEFIT OF PIG & HUMANS -MINIMISING ANTIBIOTIC USE IN PIG GROWERS AND FINISHERS

M. Costa, E. Piccinin François, S. Kirwan

#### VPH-OP-07

THE ROLE OF TRANSPORTATION IN THE SPREADING OF SWINE PATHOGENS AND ANTIMICROBIAL-RESISTANT BACTERIA

M. Masserdotti, N. Formenti, A. Donneschi, F. Guarneri, F. Scali, E. Giacomini, G.L. Alborali, C. Luzzago



# Oral PRESENTATIONS

#### VPH-OP-08

THE EVOLUTION OF ANTIMICROBIAL RESISTANCE OF STREPTOCOCCUS SUIIS ISOLATED FROM THE NERVOUS SYSTEM

S. Rodrigues Chagas, E. Paladino, C. Gebhart, L. Mendonça Pascoal, R. Singer, F. Vannucci

#### VPH-OP-09

THE PORK FOOD CHAIN AS A ROUTE OF TRANSMISSION OF ANTIMICROBIAL RESISTANT ESCHERICHIA COLI: A FARM-TO-FORK PERSPECTIVE

M. Rega, L. Andriani, S. Bonardi, M. Conter, C. Bacci

## REPRODUCTION

### Hall 2

**Chaired by Prof. Gary Althouse and Prof. Mari Heinonen**

#### REP-OP-06

HIGH PROTEIN GENE PRODUCT 9.5 EXPRESSION IN TESTES IN 8-DAY-OLD PIGLETS

U. Yamsrikaew, S. Srisuwatanasagul, M. Nuntapaitoon

#### REP-OP-07

INTEREST OF SOWS SEROLOGICAL PROFILE TO INVESTIGATE PCV-2 REPRODUCTIVE DISEASE: AN EXPLANATORY FIELD STUDY

A. Lebret, C. Teixeira-Costa, J. Jeusselin, C. Chevance, V. Normand, T. Nicolazo, G. Boulbria, A. Jardin, S. Brilland

#### REP-OP-08

ECONOMIC IMPLICATIONS OF ANEMIA-RELATED PRODUCTIVITY LOSSES IN FARROWING SOWS

P.P. Pwint Thu, R. Kirkwood, N. Am-In

#### REP-OP-09

EFFECT OF SOW GROWTH ON PUBERTY AND ON THE RESULTS OF THE FIRST PRODUCTION CYCLE

A. Vela Bello, E. Polo, I. Funes, O. Mitjana, M.V. Falceto

## PARASITOLOGY

### Hall 3

**Chaired by Prof. Friedrich Schmoll and Dr. Tatjana Sattler**

#### PAR-OP-01

CAN ANTHELMINTIC TREATMENTS BE DISCONTINUED IN HERDS SUPPOSEDLY FREE FROM ASCARIS SUUM?

P. Wallgren, K. Ryytty Sylvén, S. Gustafsson, E. Pettersson

#### PAR-OP-02

COMPARISON OF GROWTH PERFORMANCE IN THE FARROWING UNIT BETWEEN PIGLETS TREATED WITH FORCERIS (TOLTRAZURIL + IRON GLEPTOFERRON, IM) OR CEVAZURIL (TOLTRAZURIL, PO) + VILOFERRON (IRON GLEPTOFERRON, IM) IN A STANDARD COMMERCIAL DANISH SOW HERD

L.H. Diness, M.A. Larsen, P. Toft, R. Skovgaard, N. Toft, D. Sperling, C.S. Kristensen



# Oral PRESENTATIONS

15.20-16.40

20 minutes each (15' presentation and 5' discussion)

## PAR-OP-03

CYSTOISOSPORA SUI – QUANTITATIVE MEASUREMENT OF COCCIDIOSIS WITH A NEWLY DEVELOPED QPCR ON COMMERCIAL FARMS IN THE NETHERLANDS

B. Cornelis, P. De Backer, J. Schumans, S. Van Colen

## PAR-OP-04

PIGLETS COCCIDIOSIS IN FRENCH FARMS - EVALUATION OF FARM POSITIVITY USING A NEW TOOL CALLED COCCI SCREEN

S. Brilland, P. Leneveu, A. Jardin

## VIROLOGY AND VIRAL DISEASES

### Plenary

**Chaired by Prof. Hanchun Yang and Prof. Janice Reis Ciacchi Zanella**

## VVD-OP-10

DIVERGENT PATHOGENESIS AND TRANSMISSION AMONG AVIAN AND MAMMALIAN ISOLATES OF HIGHLY PATHOGENIC AVIAN INFLUENZA A VIRUS (H5N1) IN SWINE

B. Arruda, A. Vincent Baker, A. Buckley, T. Anderson, M. Torchetti, N. Hines Bergeson, M.L. Killian, K. Lantz

## VVD-OP-11

EFFECT OF BACILLUS-BASED PROBIOTIC SUPPLEMENTATION TO SOWS AND THEIR WEANED OFFSPRING IN A NURSERY H1N2 INFLUENZA CHALLENGE

L.H.B. Hansen, K. Kinsley, L. Raff, A. Mueller

## VVD-OP-12

DETECTION OF MULTIPLE PORCINE VIRUSES USING TARGET ENRICHMENT AND REAL-TIME LONG-READ SEQUENCING FROM ORAL FLUID FIELD SAMPLES THROUGH TELSVIRUS WORKFLOW

M. Meneguzzi, J. Bravo, C. Boucher, M. Torremorell, N. Noyes

## VVD-OP-13

DETECTION OF RESPIRATORY AND ENTERIC VIRUSES IN PIG HERDS OF DIFFERENT HEALTH STATUS USING, RANDOM NANOPORE SEQUENCING METHOD

W. Rybkowska, A. Woźniak, A. Jabłoński, P. Cybulski, J. Wojciechowski, M. Rajska, G. Balka, L. Dénes, B. Igriczi, F. Griffioen, S. Theuns, T. Stadejek



Wednesday  
June

# ONE HEALTH

## Hall 1

**Chaired by Dr. Christine Unterweger and Prof. Dolf Kümmerlen**

## VPH-OP-10

ANIMAL HEALTH FOOTPRINT – HOW CHANGES IN ANIMAL HEALTH STATUS INFLUENCED THE ECOLOGICAL FOOTPRINT IN PORK PRODUCTION

L. Gombos, L. Búza, I. Szabo, I. Szabo, V. Gombosné Szur

## VPH-OP-11

EFFECT OF IMPROVED FEED CONVERSION RATIO BY LAWSONIA INTRACELLULARIS VACCINATION ON THE CARBON FOOTPRINT

F. Von Und Zur Muehlen, C. Renken, R. Tabeling

## VPH-OP-12

EFFECT OF IMPROVED FEED EFFICIENCY BY LAWSONIA INTRACELLULARIS VACCINATION ON NITROGEN EMISSION IN FATTENING PIGS

R. Tabeling, F. Von Und Zur Muehlen, C. Renken

## VPH-OP-13

TRANSCRIPTOMIC ANALYSIS OF BRACHYSPIRA HYODYSENTERIAE TREATED WITH PHYTOBIOTIC-PREBIOTIC FEED ADDITIVE

O. Palócz, G. Csikó, Z. Bata, V. Molnár-Nagy

## REPRODUCTION

### Hall 2

**Chaired by Prof. Panagiotis Tassis and Dr. Claudio Oliviero**

## REP-OP-10

BIRTH DYNAMICS IN HYPERPROLIFIC SOWS WITH AND WITHOUT PARTURITION INDUCTION

H. Haller, L. Wahl, J. Kauffold

## REP-OP-11

PLACENTAL CHARACTERISTICS OF DIFFERENT PIG BREEDS AND THEIR RELATIONSHIPS TO LITTER CHARACTERISTICS

A. Vernunft, T. Hartwig, T. Illner, I. Egerszegi

## REP-OP-12

ASSESSMENT OF THE EFFICACY OF A GNRIF ANALOG TO SUPPRESS OVARIAN FUNCTION IN FATTENING GILTS UNDER FIELD CONDITIONS

S. Genís, V. King, M. Aluwé, A. Van Den Broeke, F. Descamps, A. Aldaz, N. Wuyts, M. Balasch

Oral  
PRESENTATIONS

# Oral PRESENTATIONS

15.20-16.40

20 minutes each (15' presentation and 5' discussion)

## REP-OP-13

COINFECTIONS IN CASES OF SMEDI FROM DIAGNOSTIC TRANSMITTALS IN GERMANY

M. Eddicks, J. Gründl, A. Seifert, L. Eddicks, S. Reese, K. Strutzberg-Minder, H. Swam, R. Tabeling, M. Ritzmann, R. Fux

## CLINICAL CLUB

Hall 3

Chaired by Dr. Tijs Tobias

## OCC-OP-01

UPDATING THE PRODUCTIVITY AND ECONOMIC COSTS OF PRRSV IN THE US

O.H. Osemeke, G. De Souza E Silva, C. Corzo, M. Kikuti, Y. Xiaomei, D. Correia Lima Linhares, D.J. Holtkamp

## OCC-OP-02

WHY DID THE SHEEP KILL THE PIG?

J. Lambertz, G. Fidler, S. Revilla-Fernández, F. Schmoll

## OCC-OP-03

MYCOPLASMA HYORHINIS ISOLATED FROM THE CENTRAL NERVOUS SYSTEM OF PIGLETS WITH MENINGITIS

M. Bünger, J. Spergser, L. Schwarz, R. Brunthaler, P. Pineyro, A. Griessler, A. Ladinig

## OCC-OP-04

SOWS NECK INJURIES ASSOCIATED WITH NON-PROPERLY PERFORMED INJECTION: A DESCRIPTIVE STUDY

E. Abily, C. Teixeira-Costa, J. Jeusselin, C. Chevance, V. Normand, T. Nicolazo, G. Boulbria, M. Brissonnier, J. Da-Costa, J. Favrel, A. Lebret

5

Wednesday  
June

6

Thursday  
June

## Plenary

8.30-10.00

**KEYNOTE SESSION: HUMAN RESOURCE MANAGEMENT**

*Chaired by Prof. Arie van Nes and Dr. Ursula Friedmann*

8.30-9.00

Economic view on staff management, *Dr. Martin Pfützner*

9.00-9.30

Emotional intelligence as applied in pig farming, *Dr. Estevão Lopes*

9.30-10.00

Round table discussion

## Hall 1

8.30-10.00

**KEYNOTE SESSION: NUTRITION**

*Chaired by Dr. Elena Canelli and Dr. Alberto Stephano*

8.30-9.00

Global trends in pig nutrition, *Dr. Kaat Goris*

9.00-9.30

Alternative feed sources and feeding strategies, *Prof. Stephan Schneider*

9.30-10.00

Round table discussion

## Hall 2

8.30-10.00

**KEYNOTE SESSION: WELFARE AND ETHOLOGY**

*Chaired by Prof. Mari Heinonen and Dr. Joerg Altemeier*

8.30-9.00

Global consequences of porcine animal welfare recommendation in the terrestrial code, *Dr. Miguel Angel Higuera*

9.00-9.30

European approach to advanced pig welfare, *Dr. Heleen van de Weerd*

9.30-10.00

Round table discussion

10.00-10.30

Coffee Break & Poster Viewing

10.30-12.10

**Oral presentations**

## Plenary

**BACTERIOLOGY AND BACTERIAL DISEASES**

*Chaired by Dr. Monica Balasch and Prof. Christoph Baums*

## Hall 1

**HERD HEALTH MANAGEMENT**

*Chaired by Prof. Jens Peter Nielsen and Dr. Annalisa Scollo*

## Hall 2

**NUTRITION**

*Chaired by Prof. Mirja Wilkens and Dr. C.A. Pospissil Garbossa*

## Hall 3

**VACCIINOLOGY AND IMMUNOLOGY***Chaired by Prof. Jeffrey Zimmerman and Prof. Francisco Pallarés Martínez*

12.10-13.30

Lunch &amp; Poster Viewing &amp; Chaired Poster Presentations

13.30-14.50

**Oral presentations**

## Plenary

**BACTERIOLOGY AND BACTERIAL DISEASES***Chaired by Prof. Roberto Guedes and Prof. Friederike Zeeh*

## Hall 1

**HERD HEALTH MANAGEMENT***Chaired by Dr. Daniel Linhares and Dr. Elena Canelli*

## Hall 2

**NUTRITION***Chaired by Prof. Cesar A. Corzo and Prof. Sven Dänicke*

## Hall 3

**VACCIINOLOGY AND IMMUNOLOGY***Chaired by Prof. Dirk Werling and Dr. Adrian Balaban*

14.50-15.20

Coffee Break &amp; Poster Viewing

15.20-16.40

**Oral presentations**

## Plenary

**BACTERIOLOGY AND BACTERIAL DISEASES***Chaired by Prof. Dominiek Maes and Dr. Matheus da Costa*

## Hall 1

**HERD HEALTH MANAGEMENT***Chaired by Dr. Marianne Oropeza-Moe and Dr. Wolfgang Pendl*

## Hall 2

**NUTRITION***Chaired by Prof. Fernanda Almeida and Prof. Christian Visscher*

## Hall 3

**FLASH TALKS***Chaired by Prof. Arie van Nes and Dr. Julia Stadler*

16.40-17.00

Poster Viewing



# Oral PRESENTATIONS

10.30-12.10

20 minutes each (15' presentation and 5' discussion)

**BACTERIOLOGY AND BACTERIAL DISEASES**

## Plenary

**Chaired by Dr. Monica Balasch and Prof. Christoph Baums**

## BBD-OP-01

COMPARATIVE EVALUATION OF ACTINOBACILLUS PLEUROPNEUMONIAE SEROTYPING FROM DIFFERENT DIAGNOSTIC SPECIMENS

I. Spiekermeier, J. Buch, C. Helmer

## BBD-OP-02

ACTINOBACILLUS PLEUROPNEUMONIAE IN-VITRO SURVIVABILITY IN LIQUID MEDIA

M. Almeida, A. Michael, N. Macedo, R. C. Paiva, M. Gottschalk

## BBD-OP-03

TIME SERIES MODELS BASED ON LUNG LESIONS PREVALENCE FOR THE PREDICTION OF THE DYNAMICS OF MYCOPLASMA HYOPNEUMONIAE AND ACTINOBACILLUS PLEUROPNEUMONIAE INFECTIONS IN SPAIN

A. Fernández-Fontelo, M. Lasierra, M. Carmona, L. Garza

## BBD-OP-04

DYNAMICS OF INFECTION OF DISEASE-ASSOCIATED STREPTOCOCCUS SUI (DASS) IN THE LACTATION PHASE

R. Mugabi, A.P. Silva, C. Haden, T. Williams, M. Rotolo, J. Brown, R. Jensen, S. Cameron, J. Nerem, L. Weinert, G. Li, O. Sahin, C. Rademacher, M. Gottschalk, P. Harms, J. Wells, A. Tucker, M.J. Clavijo

## BBD-OP-05

PREVALENCE AND VIRULENCE OF STREPTOCOCCUS SUI SEROTYPES 1, 14, 2, AND 1/2 ISOLATED IN SPAIN BETWEEN 2019 AND 2023

M. Petrocchi Rilo, V. Acebes Fernández, M. Delgado García, C.B. Gutiérrez Martín, A. González Fernández, R. Miguélez Pérez, A. Aguarón Turrientes, S. Martínez Martínez**HERD HEALTH MANAGEMENT**

## Hall 1

**Chaired by Prof. Jens Peter Nielsen and Dr. Annalisa Scollo**

## HHM-OP-01

ASF PREVENTION: WEB-BASED TOOL TO ASSESS RISK FOR ASF INTRODUCTION IN PIG FARMS WITH OUTDOOR HOUSING

B. Grabkowsky, M. Gellermann, F.J. Conraths, N. Denzin, C. Sauter-Louis, M. Martin

Oral  
**PRESENTATIONS**



# Oral PRESENTATIONS

10.30-12.10

20 minutes each (15' presentation and 5' discussion)

## HHM-OP-02

A NOVEL VEHICLE MODEL REROUTING SYSTEM TO REDUCE SWINE DISEASE TRANSMISSION RISK

J.A. Galvis, G. Machado

## HHM-OP-03

DECISION TREE FOR PRRSV MONITORING IN HERDS UNDERGOING A CONTROL PROGRAM

D.C. Linhares, I. Machado, M. Almeida, E. Magalhães, G. De-Sousa-E-Silva, G. Trevisan

## HHM-OP-04

MAPPING BIOSECURITY LEGISLATION IN THE INTENSIVE PIG PRODUCTION ACROSS EUROPE

E. Biebaut, M. Stukelj, T. Pina Nunes, V. Nedosekov, C. Correia Gomes, B. Mehmedi, I. Corrége, L. ózsvári, L. Svennesen, E. Bernaerdt, I. Toppari, L. Gresakova, C. Romanelli, M.E. Filippitzi, M. Siv, B. Angjelovski, S. Küker, A. Allepuz, A. Viltrop, M. Didara, M. Nikolic, E. Vink, I. Chantziaras, L. Dahlin, M. De Nardi, T. Nicolaisen, J. Prodanov-Radulovic

## HHM-OP-05

EVALUATION OF PRRSV ONSET OF INFECTION USING ORAL FLUIDS AND AIR EMISSIONS SAMPLING

M. Schwartz, C. Snow, M. Torremorell, A. Rendahl, S. Krebs, M. Pieters

## NUTRITION

### Hall 2

**Chaired by Prof. Mirja Wilkens and Dr. C.A. Pospissil Garbossa**

## NUTR-OP-01

DOES 25-HYDROXYVITAMIN D3 HAVE ANY ADVANTAGES IN RESPECT TO LAMENESS OF PIGS FED PROTEIN- AND PHOSPHORUS-REDUCED DIETS IN COMPARISON TO CONVENTIONAL VITAMIN D3?

M. Lütke-Dörhoff, J. Schulz, H. Westendarp, C. Visscher, M. Wilkens

## NUTR-OP-02

CALCIUM CHLORIDE SUPPLEMENTATION DURING THE TRANSITION PERIOD REDUCES THE INCIDENCE OF STILLBORN PIGLETS

J. Ruampatana, U. Yamsrikaew, P. Preesong, S. Nantakhruea, M. Nuntapaitoon

## NUTR-OP-03

DIET RICH IN FIBERS DURING THE TRANSITION PERIOD DECREASES FARROWING DURATION

B. Bracco Donatelli Muro, R. Carnevale, M.S. Monteiro, D. Feitosa Leal, F.A. Pereira, C.A. Pospissil Garbossa



## NUTR-OP-04

IMPACT OF HERBAL VITAMIN C SUPPLEMENTATION ON PRODUCTIVE AND REPRODUCTIVE PERFORMANCE OF LACTATING SOWS AND THEIR LITTERS

G. Frederico, C. Sol, F. Horta, A.P. Pavaneli, E. Raele, I. Bianchi

## NUTR-OP-05

PROBIOTIC POWER TO SUPPORT WEANING PIGLETS' PERFORMANCE AND HEALTH

L. Vande Maele, J.Y. Mun, V. Vandendriessche, J.S. Kim

## VACCINOLOGY AND IMMUNOLOGY

### Hall 3

**Chaired by Prof. Jeffrey Zimmerman and Prof. Francisco Pallarés Martínez**

## IMM-OP-01

AN INNOVATIVE SUBUNIT VACCINE PLATFORM FOR FARM ANIMALS, VALIDATED IN SWINE AND OTHER SPECIES

H. Hennemann, S. Bennewitz, U. Diesterbeck, E. Galemou Yoga, S. Behrens

## IMM-OP-02

A NEW GENERATION GLYCOCONJUGATE VACCINE AGAINST THE SWINE AND ZOONOTIC PATHOGEN STREPTOCOCCUS SUI

M. Segura, T. Lowary, M. Gottschalk

## IMM-OP-03

INFLUENCE OF MATERNAL ANTIBODIES ON THE IMMUNE RESPONSE OF YOUNG PIGLETS VACCINATED WITH A STREPTOCOCCUS SUI SEROTYPE 2 BACTERIN

M. Gottschalk, M. Poulin, L. Cloutier, M. Segura

## IMM-OP-04

EFFECT OF AMOXICILLIN, CEFTIOFUR, DOXYCYCLINE, TIAMULIN AND TULATHROMYCIN ON THE ANTIBODY RESPONSE OF PIGLETS VACCINATED AGAINST LAWSONIA INTRACELLULARIS

E.M. Fonseca, D.G. Donin, A.N. Jesus, A.G. Daniel, B.C. Gomes, C. Feronato, R. Frandoloso, S.V. Berg, J.X. Oliveira Filho, G.C. Alorton

## IMM-OP-05

ON-FARM COLOSTRUM IMMUNOGLOBULIN G MEASUREMENTS FOR SUFFICIENT IMMUNITY IN PIGLETS

D.P. Frandsen, C.K. Højgård, M.B.F. Nielsen

Oral PRESENTATIONS

## Chaired Poster PRESENTATIONS

12.20-13.00

### Poster Area

5 minutes each (3' presentation and 2' discussion)



Thursday  
June

## REPRODUCTION

### Chaired by Prof. Johannes Kauffold - E-poster station n. 4

#### REP-CP-01

SOWS WEANING SURPLUS PIGLETS: CHARACTERISTICS AND SUBSEQUENT PERFORMANCE

G. Zanin, L. Dos Santos, R. Dalmina Rech, F. Bortolozzo, R. Ulguim, A.P. Gonçalves Mellagi

#### REP-CP-02

ENHANCING OXYGENATION IN NEONATAL PIGLETS TO REDUCE PRE-WEANING MORTALITY

G. Naruekatpichai, J. Deesuwan, N. Pinyocheep, B. Bunyakida, A. Koharn, R. Boonprakob 1, T. Padet, N. Am-In

#### REP-CP-03

AN OUTBREAK OF PRRSV IN A GERMAN BOAR STUD: A RETROSPECTIVE ANALYSIS OF PRRSV SHEDDING IN BOAR SEMEN

J. Aundrup, C. Lüken, K. Heenemann, T.W. Vahlenkamp, I. Hennig-Pauka

#### REP-CP-04

DIFFERENCES IN AGE, WEIGHT, BACKFAT THICKNESS AND LOIN DEPTH AT FIRST MATING IN EIGHT DIFFERENT GENETIC LINES DURING ALL SEASONS

P. Sánchez-Giménez, H. González-Ramiro, R. Fernández-Rodríguez, A. Martínez-Moreno, L. Martínez-Alarcón, G. Ramis

#### REP-CP-05

PIGLETS BORN LATER IN THE FARROWING HAVE LESSER VITALITY AND INCREASED BLOOD PH AND LACTATE

B. Bracco Donatelli Muro, R. Carnevale, A. Augusto Justo, M.S. Monteiro, N.D.A.C. Gomes, C. Tavares Meloto, M. Ambroso Adib Donato Henriques, A. Nunes Reis, G. Salvador Cardoso, E. Marlon Pereira, E. Correia Da Silva, L. Braselino Borges, C.A. Pospissil Garbossa

#### REP-CP-06

THE ANTIMICROBIAL PEPTIDE: ITS POSSIBILITY FOR A REPLACEMENT OF ANTIBIOTIC IN BOAR SEMEN EXTENDER

K. Keeratikunakorn, P. Chanapiwat, R. Aunpad, N. Ngamwongsatit, K. Kaeoket

#### REP-CP-07

THE EFFECT OF LONG-TIME TRANSPORTATION OF EXTENDED BOAR SEMEN ON THE MOTILITY TRAITS:

A FEASIBILITY OF BEING A NEW FERTILITY PREDICTOR

P. Chanapiwat, K. Kaeoket

## ONE HEALTH

### Chaired by Dr. Carl Andreas Grøntvedt -

### E-poster station n. 5

#### VPH-CP-01

EFFECT OF IMPROVED FEED EFFICIENCY BY LAWSONIA INTRACELLULARIS VACCINATION ON PHOSPHORUS EMISSIONS IN PIG PRODUCTION

R. Tabeling, F. Von Und Zur Muehlen, C. Renken

#### VPH-CP-02

THE IMPORTANCE OF THE DRINKER MODEL IN WATER USE AND THE ENVIRONMENTAL IMPACT IN THE NURSERY PHASE

G. Schlindwein Da Silva, J. Cristani, C. Pellis, J. Bona Preisler, N. Rampon Cendron, N. Rigo, S. Ribeiro Krasilchik, S. Davi Traverso

#### VPH-CP-03

ALTERNATIVE TO ZNO TO ESTABLISH BALANCED INTESTINAL MICROBIOTA FOR WEANING PIGLETS

A. Juhász, Z. Mayer, K. Posta, K. Tso, V. Molnár-Nagy, Z. Bata

#### VPH-CP-04

EFFECTS ON THE CARBON FOOTPRINT OF PORK BY AN INFECTION WITH LAWSONIA INTRACELLULARIS

J. Gickel, A. Abd El-Wahab, J. Hankel, C. Visscher

#### VPH-CP-05

TRANSMISSION DYNAMICS MODELLING OF HEPATITIS E VIRUS IN COMPARTMENTALIZED PIG FARMS REVEAL BETWEEN BATCH AND BETWEEN COMPARTMENT TRANSMISSION AS POTENTIAL EFFECTIVE ON FARM CONTROL TARGET

M. Meester, T. Tobias, C. Valenzuela Agüí, R. Hakze, C. Guinat, M. Bouwknecht, E. Fischer, F. Harders, L. Du Plessis, T. Stadler, A. Stegeman, W. Van Der Poel

#### VPH-CP-06

PREVALENCE OF ANTIMICROBIAL-RESISTANT BACTERIA IN PIG BARN AFTER CLEANING AND DISINFECTION PROCEDURES

A. Perrucci, M.C. Stella, P. Robino, P. Nebbia, A. Scollo

#### VPH-CP-07

CAN POOR DISINFECTION PRACTICES IN PIG FARMING PREDISPOSE THE ENVIRONMENTAL MAINTENANCE OF ANTIMICROBIAL-RESISTANCE?

V. Vincenti, C. Marra, R. Novara, C. Caruso, S. Zoppi, A. Scollo

#### VPH-CP-08

EFFECTS OF VACCINATION AGAINST ENDOGENOUS GNRIF (GONADOTROPIN-RELEASING-FACTOR) OF FATTENING GILTS ON PRODUCTIVITY IN TWO COMMERCIAL FARMS IN BRAZIL

C. Da Silva, E. Poleze, C. Pazinato Dias, A. Aldaz

## Chaired Poster PRESENTATIONS

## Chaired Poster PRESENTATIONS

12.20-13.00

### Poster Area

5 minutes each (3' presentation and 2' discussion)

## HERD HEALTH MANAGEMENT

**Chaired by Dr. Alexander Grahofer - E-poster station n. 2**

### HHM-CP-01

EFFECT OF DIFFERENT FEED ADDITIVES TO IMMUNE RESPONSE, OXIDATIVE STRESS AND WEIGHT GAIN IN POSTWEANING PIGS USING PIGMARKSAL SALIVARY BIOMARKERS

J. Sánchez, A. Miralles-Chorro, M. Matas-Quintanilla, P. Fuentes, A.M. Gutiérrez

### HHM-CP-02

GIS BASED RISKS OF INTRODUCTION OF PRRS, MYCOPLASMA HYOPNEUMONIAE AND ACTINOBACILLUS PLEUROPNEUMONIAE INTO DANISH PIG HERDS

J. Dahl, B. Lorenzen

### HHM-CP-03

PREDICTION OF PIGLET THROUGHPUT AFTER LIVE VIRUS EXPOSURE IN BREEDING HERDS UNDERGOING PRRS ELIMINATION

E. Paladino, C. Corzo, A. Betlach, A. Rendahl, M. Pieters, R. Singer

### HHM-CP-04

SWINE INFLUENZA A VIRUS AND ITS CO-INFECTIONS – A PERSPECTIVE FROM SIX EUROPEAN COUNTRIES

M.V. Agerlin, G. Simon, E.M. Mateu De Antonio, H.E. Everett, C. Chiapponi, T. Harder, G. Dauphin, C. Fablet, P. Ryt-Hansen, G.E. Martin Valls, B. Mollett, L. Soliani, A. Graaf-Rau, S. Hervé, L. Coronado, S. Leetham, A. Luppi, K. Lillie-Jaschniski, S. Thiroux, S. Gorin, G. Richard, C. Deblanc, M. Andraud, A. Prosperi, N. Rose, N.R. Weber, N.B. Goecke, L.E. Larsen

### HHM-CP-05

PIG INDUSTRY STAKEHOLDERS' INSIGHTS INTO DATA TOOLS FOR PIG HEALTH AND WELFARE MANAGEMENT: AN ONLINE SURVEY IN SPAIN

B. Garcia-Morante, X. Zhou, M. Sibila, C. Vilalta, A. Bearth, J. Segalés

### HHM-CP-06

A PRACTICAL APPROACH TO CONTROL PRRSV SUBCLINICAL INFECTION BY DATA MANAGEMENT AND ROUTINE PRRSV MONITORING FOLLOWING PRRS VACCINATION

B. Goesten, F. Von Und Zur Muehlen

### HHM-CP-07

CHARACTERIZATION OF CIRCULATING MYCOPLASMA HYOPNEUMONIAE VARIANTS USING MULTIPLE-LOCUS VARIABLE NUMBER TANDEM REPEAT ANALYSIS AND P146 GENE SEQUENCING

A. Betlach, D. Marthaler, E. Fano, M. Pieters

6

Thursday  
June

### HHM-CP-08

DETECTION OF DIFFERENT AGENTS INVOLVED IN NEONATAL DIARRHOEA CASES IN CHINESE FARMS

J. Miguel, T. Yang, W. Fei, M. Wu

## VACCINOLOGY AND IMMUNOLOGY

**Chaired by Prof. Joaquim Ségales - E-poster station n. 3**

### IMM-CP-01

LACK OF CROSS REACTIVITY BETWEEN PCV2 AND PCV3 ANTIBODIES FOLLOWING EXPERIMENTAL INOCULATION

M. Kroeger, P. Pineyro

### IMM-CP-02

ROLE OF IGM IN PORCINE IMMUNITY AGAINST STREPTOCOCCUS SUI

A.K. Breitfelder, S. Anne-Marie, C.G. Baums, G. Alber, J. Kauffold, H.L. Sigmarsson, T. Sattler, U. Müller, M. Eschke

### IMM-CP-03

ANTIGENICITY ANALYSIS AS A TOOL TO PREDICT CROSS-PROTECTION BETWEEN CLINICAL STRAINS OF GLAESSELLA PARASUIS

M. Tamanini, A.P. Mori, R. Petri, D. Baldasso, J.A. Guizzo, L.C. Kreutz, R. Frandoloso

### IMM-CP-04

EVALUATION OF DIFFERENT SCHEDULES OF SOW VACCINATION WITH AN AUTOGENOUS STREPTOCOCCUS SUI SEROTYPE 1 BACTERIN

G. Freymüller, S. Lehnert, C. Unterweger, A. Ladinig, T. Vogelmayr, C.G. Baums, L. Mayer

### IMM-CP-05

IMPACT ON PRODUCTIVE PARAMETERS IN FARROWING AND POST-WEANING PERIOD OF PIGLETS AFTER SOW VACCINATION AGAINST SWINE INFLUENZA A VIRUS

S. Cárceles, P. Sánchez-Giménez, á. Guerrero, D. Espigares

### IMM-CP-06

MUCOSAL AND SYSTEMIC ANTIBODY RESPONSES TO INFLUENZA A VIRUS FOLLOWING LIVE ATTENUATED INFLUENZA VIRUS OR REPLICON PARTICLE VACCINE

M. Wymore Brand, C. Kunzler Souza, B. Arruda, A. Vincent Baker

### IMM-CP-07

PRRSV-SPECIFIC IMMUNE RESPONSES AT THE MATERNAL-FETAL INTERFACE DURING LATE GESTATION

M.R. Stas, H. Kreutzmann, K.H. Mair, M. Koch, C. Knecht, M. Stadler, K.A. Van Dongen, A. Saalmüller, T. Rümenapf, W. Gerner, A. Ladinig

### IMM-CP-08

A FIELD TRIAL ON THE EFFICACY IN PROTECTING WEANED PIGLETS AGAINST TWO PRDC PATHOGENS USING A VACCINE AGAINST NON-PROGRESSIVE AND PROGRESSIVE ATROPHIC RHINITIS

H. Lichterfeld, S. Trittmacher, B. Wegner, H. Blömer, T. Kornhoff, S. Cros, J. Montané Giral, I. Ballarà, I. Gale, I. Hennig-Pauka

Chaired Poster  
**PRESENTATIONS**



## Chaired Poster PRESENTATIONS

12.20-13.00

### Poster Area

5 minutes each (3' presentation and 2' discussion)

## BACTERIOLOGY AND BACTERIAL DISEASES

Chaired by Dr. Elena Canelli - *E-poster station n. 1*

### BBD-CP-01

EVOLUTION OF BACTERIAL CONTAMINATION IN SEMEN DOSES

A. Clemente-Retornano, A. Vicente-Carrillo, N. Mendoza-Magén, P. Soler-Llorens, C. Giménez-Laita, I. Franco-Castillo, ú. Alvarez-Martín, R. Ausejo-Marcos

### BBD-CP-02

FACTORS ASSOCIATED WITH CASES OF BACTERIAL NEONATAL DIARRHOEA IN THAI FARMS

J. Miguel, D. Giral, A. Buakhiew, C. Ananratanakul, S. Krasaesub, S. Traiyarach

### BBD-CP-03

MESOMYCOPLASMA HYOPNEUMONIAE INFECTS AND DISRUPTS THE ORGANOTYPIC AIR-LIQUID INTERFACE (ALI) PORCINE-DERIVED RESPIRATORY EPITHELIAL CELLS (PRECS) CULTURE

A.F. Castillo-Espinoza, R.K. Nelli, J.C. Mora-Díaz, R. Rauh, N.C. Twu, L. Yen, S. Parameswaran, L.G. Gimenez-Lirola

### BBD-CP-04

POLYARTHRITIS – SIGNIFICANCE OF STREPTOCOCCUS DYSGALACTIAE IN JOINT SAMPLES

M. Beumer, S. Freytag, I. Spiekermeier, C. Helmer

### BBD-CP-05

UNRAVELING THE IMPACT OF STREPTOCOCCUS SUIIS DISEASE ON BACTERIAL COMMUNITIES IN PIGS

J. Santos Streauslin, A. Anilkumar Vinithakumari, N. Macedo, D. Nielsen, O. Sahin, B. Arruda

### BBD-CP-06

CHARACTERIZATION OF A PASTEURELLA MULTOCIDA TYPE A STRAIN ASSOCIATED WITH A SEVERE PNEUMONIA OUTBREAK IN GILTS

S. Kähl, H. Haller, S. Hanstein, M. Dembowski, R. Ulrich, P. Kutzer, J. Kauffold, C.G. Baums

### BBD-CP-07

DETECTION OF GENES RELATED TO VIRULENCE FACTORS IN PASTEURELLA MULTOCIDA ISOLATES IN BRAZIL

G. Pinheiro Paes, J. Viktor De Paula Barros Baêta, L. Fernando Dos Santos, D. Lúcio Dos Santos, W. Vieira Guimarães, J. Lúcio Dos Santos

### BBD-CP-08

ETEC GENETIC AND MORPHOLOGIC CHARACTERIZATION FROM ISU-VDL PORCINE CASES FROM 2018 TO 2022

R. C. Paiva, E. Burrough, N. Macedo, P. Pineyro, M. Almeida

6

Thursday  
June

## Oral PRESENTATIONS

13.30-14.50

20 minutes each (15' presentation and 5' discussion)

## BACTERIOLOGY AND BACTERIAL DISEASES

### Plenary

Chaired by Prof. Roberto Guedes and Prof. Friederike Zeeh

### BBD-OP-06

ENVIRONMENTAL VIABILITY OF MYCOPLASMA HYOPNEUMONIAE AND ITS POTENTIAL FOR INDIRECT TRANSMISSION

C. Cordon, A. Canturri, R. Evelsizer, M. Pieters

### BBD-OP-07

EVALUATION OF CLEANING COMPOUNDS TO MINIMIZE SAMPLE CROSS-CONTAMINATION FOR DETECTION OF MYCOPLASMA HYOPNEUMONIAE BY PCR

C. Snow, A. Canturri, M. Pieters

### BBD-OP-08

EVIDENCE OF MYCOPLASMA HYOPNEUMONIAE RECIRCULATION IN PREVIOUSLY EXPOSED IMMUNE SOWS

P. Yeske, A. Betlach, E. Fano, M. Schwartz, J. Schwartz, M. Pieters

### BBD-OP-09

AN OVERVIEW OF KLEBSIELLA PNEUMONIAE SEPTICAEMIA OUTBREAKS IN PIGS IN ENGLAND SINCE EMERGENCE IN 2011

S. Williamson, C. Bidewell, H. Wighton, L. Pittalis, M. Abuoun

## HERD HEALTH MANAGEMENT

### Hall 1

Chaired by Dr. Daniel Linhares and Dr. Elena Canelli

### HHM-OP-06

PEN ORAL FLUIDS AS AN ALTERNATIVE TO FAECAL SAMPLING TO DETECT LOW BACTERIAL LOAD OF LAWSONIA INTRACELLULARIS IN SUBCLINICAL INFECTIONS

R. Del Pozo Sacristán, H. Swam, A.E. Taylor

### HHM-OP-07

PEN-BASED SWINE ORAL FLUID SAMPLES CONTAIN BOTH ENVIRONMENTAL AND PIG-DERIVED TARGETS

G. Tarasiuk, M. Remmenga, K. O'Hara, M. Rotolo, P. Zaabel, D. Zhang, L. Gimenez-Lirola, J. Zimmerman

### HHM-OP-08

RE-EVALUATION OF THE MANAGEMENT ON PIG FARMS IS HALF THE JOB TO OBTAIN PRUDENT AMU

C. Bonckaert, C. Brossé, T. Vandersmissen, C. Rigauts

Oral  
PRESENTATIONS

## HHM-OP-09

THE CONNECTION BETWEEN INFLAMMATION AND OXIDANT STATUS  
ACCORDING TO PIGMARKSAL SALIVARY BIOMARKERS (S100A12 AND TOS)

M. Matas-Quintanilla, J. Sánchez, A. Miralles-Chorro, J. Sotillo, P. Fuentes,  
A.M. Gutiérrez

## NUTRITION

### Hall 2

**Chaired by Prof. Cesar A. Corzo and Prof. Sven Dänicke**

## NUTR-OP-06

SUPPLEMENTATION OF POSTBIOTICS TO MULTIPAROUS SOWS THROUGHOUT GESTATION AND LACTATION  
PERIODS ENHANCES SOW PERFORMANCE AND LACTOGENIC IMMUNE RESPONSE

P. Kongpanna, P. Jermsutjarit, A. Tantituvanont, K. Soothiluck, U. Jamikorn, D. Nilubol

## NUTR-OP-07

SPIRULINA AS AN ALTERNATIVE PROTEIN SOURCE FOR SOWS – EFFECTS ON LITTER CHARACTERISTICS AND  
PIGLET GROWTH

W. Pendl, P. Tschannen, M. Terranova, D. Kümmerlen, K. Giller

## NUTR-OP-08

TOXICOKINETIC APPROACH TO MEASURE THE EFFICACY OF A MYCOTOXIN DEACTIVATOR AGAINST AFLATOXIN  
B1 AND ZEARELENONE IN PIGS

D. Preveraud, N. Broekaert, M. Devreese, S. Croubels

## NUTR-OP-09

FEED ADDITIVE PACKAGE WITH MICROENCAPSULATED ZINC ALLOWS IMPROVEMENT IN BIOMARKERS OF  
IMMUNITY AND INTESTINAL INTEGRITY IN PIGLETS FED WITH LOW ZNO CONTENT AND REDUCED PROTEIN

G. Ramis, F. Murciano, J. Orengo, L. Martínez-Alarcón, B. González-Guijarro, A. Cuellar-Flores, E. Landeau,  
S. Benaben

## VACCINOLOGY AND IMMUNOLOGY

### Hall 3

**Chaired by Prof. Dirk Werling and Dr. Adrian Balaban**

## IMM-OP-06

ADAPTATION OF THE ASFV-989 LIVE ATTENUATED VIRUS ON CONTINUOUS CELL LINE, A STEP FORWARD TO  
BECOME A VACCINE CANDIDATE

O. Bourry, M. Le Dimna, E. Hutet, G. Pinsard, Y. Blanchard, F. Paboeuf, M. Le Potier

## IMM-OP-07

A BROADLY PROTECTIVE VACCINE AGAINST SWINE INFLUENZA A VIRUS BASED ON THE MATRIX PROTEIN 2 (M2)

F.A. Zuckermann, Y. Grionkova, R.J. Husmann, M. Pires-Alvez, S. Storms, S.G. Sligar



## Oral PRESENTATIONS

15.20-16.40

20 minutes each (15' presentation and 5' discussion)

## IMM-OP-08

PRRSV-VACCINATED, SERONEGATIVE SOWS AND MATERNALLY DERIVED ANTIBODIES (II): IMPACT ON PRRSV-1  
VACCINE EFFECTIVENESS AND CHALLENGE OUTCOMES IN PIGLETS

J. Fiers, D. Maes, A. Cay, F. Vandebussche, L. Mostin, A. Parys, M. Tignon

## IMM-OP-09

IMPACT OF SOWS' IMMUNOLOGICAL STATUS ON PCV2 VIRAL CIRCULATION DURING LACTATION USING  
PROCESSING FLUID PCR CT VALUES IN A PRE AND POST-SOW HERD VACCINATION PROGRAM

M. Kroeger, C. Stewart, M. Schleper, A. Sponheim, E. Fano, P. Pineyro

## BACTERIOLOGY AND BACTERIAL DISEASES

### Plenary

**Chaired by Prof. Dominiek Maes and Dr. Matheus da Costa**

## BBD-OP-10

DEVELOPMENT OF THE FAECAL MICROBIOTA IN POST-WEANING PIGLETS

M. Klahr Fritz, T. Rosendal, M. Sjölund, P. Wallgren, M. Leijon

## BBD-OP-11

DIVERSITY OF CLOSTRIDIUM PERFRINGENS ISOLATES FROM SWINE - ANALYZED WITH A NOVEL MICROARRAY-  
BASED TOXIN TYPING ASSAY

M. Blümlinger, L. Schwarz, J. Spargser, A. Cabal Rosel, W. Ruppitsch, S. Braun, S. Monecke, R. Ehrlich,  
A. Ladinig, I. Loncaric

## BBD-OP-12

COMPARISON OF THE PATHOLOGY AND CLINICAL EFFECTS OF AN F18 ENTEROTOXIGENIC ESCHERICHIA COLI  
CONTAINING A TIA ADHESIN GENE AGAINST A CONTEMPORARY F18 ESCHERICHIA COLI STRAIN

R. C. Paiva, E. Aljets, H. Chen, P. Jermsutjarit, P. Watcharavongtip, D. Vargas-Bermudez, H. Tong, P. Gauger,  
D. Murray, P. Pineyro, M. Almeida

## BBD-OP-13

COMPARISON OF THE SENSITIVITY OF ORAL FLUIDS AND POOLED PEN FECAL SAMPLES FOR THE DETECTION  
OF LAWSONIA INTRACELLULARIS

A. Vegter, J. Morgan, G. De-Sousa-E-Silva, P. Gauger, F. Leite

Oral  
**PRESENTATIONS**

## HERD HEALTH MANAGEMENT

### Hall 1

Chaired by **Dr. Marianne Oropeza-Moe and Dr. Wolfgang Pendl**

#### HHM-OP-10

A SYSTEM-SPECIFIC PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME VIRUS (PRRSV) OUTBREAK MANAGEMENT PROGRAM

A.P. Serafini Poeta Silva, A. Maschhoff, C. Rademacher, G. De-Sousa-E-Silva, G. Trevisan, D. Linhares

#### HHM-OP-11

COST MINIMIZATION ANALYSIS OF INTRADERMAL AND INTRAMUSCULAR ADMINISTRATION OF VACCINES IN BRAZIL

D. Holtkamp, S. Von Berg, P. Moraes, F. Ibanez, L. Peixoto, C. Ferronato, L. Rossi

#### HHM-OP-12

CROSS-FOSTERING AFFECTS GROW-FINISHING PIG RESULTS DEPENDING ON BIRTH WEIGHT AND AGE OF CROSS-FOSTERING

M. Nuyens, A. Van Der Heide, M. Steenaert

#### HHM-OP-13

MAXIMIZING THE USAGE OF NGS OUTPUTS FOR FARM-SPECIFIC PRRSV EPIDEMIOLOGICAL INVESTIGATIONS

G. Trevisan, M. Zeller, G. Li, J. Zhang, R. Main, G. De Souza E Silva, P. Gauger, D. Correia Lima Linhares

## NUTRITION

### Hall 2

Chaired by **Prof. Fernanda Almeida and Prof. Christian Visscher**

#### NUTR-OP-10

RELATION BETWEEN HYDRATION-RELATED PROPERTIES AND FERMENTATION PARAMETERS OF FIBROUS INGREDIENTS

C.A. Pospissil Garbossa, B. Bracco Donatelli Muro, R. Carnevale, R. Scalise Xavier De Freitas, D. Alexsander Rojas Moreno, I. Cláudio Da Silva Bueno, M.S. Monteiro, D. Feitosa Leal, C. Abércio Da Silva

#### NUTR-OP-11

THE EFFECTS OF DIETARY NET ENERGY LEVEL ON GROW-FINISH PERFORMANCE AND CARCASS CHARACTERISTICS OF INTACT MALE MARKET PIGS IMMUNIZED AGAINST GNR

L. Van De Weyer, Y. Wang, B. Hansen, S. Pollmann, J. Landero, M. Young, A. Aldaz, B. Bohrer

#### NUTR-OP-12

TWO IRON INJECTIONS BEFORE WEANING IMPROVED POSTWEANING GROWTH PERFORMANCE, HEMOGLOBIN LEVELS, FECAL SCORE AND MICROBIOME OF PIGS REGARDLESS OF DIETARY IRON LEVELS UNDER NATURAL DISEASE CHALLENGE

A. Johnson, B. Dittrich, A. Cole, M. Prodell, S. Fritz, W. Li, P. Fregulia, W. Lyons, Y.D. Jang

#### NUTR-OP-13

WHICH GENERAL BIOMARKERS IN PLASMA ASSOCIATE WITH GROWTH PERFORMANCE THE FIRST WEEK POST-WEANING?

L. Fabà, L. Dieste-Pérez, H.M.J. Van Hees, T.G. Hulshof



## Flash TALKS

15.20-16.40 - Hall 3

Chaired by **Prof. Arie van Nes and Dr. Julia Stadler**

5 minutes each (3' presentation and 2' discussion)

#### FTP-OP-01

ESTABLISHMENT OF AN EXPERIMENTAL PIG MODEL FOR THE INDUCTION OF STAPHYLOCOCCUS HYICUS SKIN INFECTION

K. Matiašková, E. Jeklová, M. Zouharová, K. Nedbalcová, J. Matiašovic, M. Faldyna

#### FTP-OP-02

ASSESSING PRRSV-1 DETECTION DYNAMICS POST-OUTBREAK AND IMPLEMENTATION OF A TARGETED VACCINATION STRATEGY IN A BREEDING HERD

Z. Tomic, V. Miljkovic, G. Lopez-Moreno, R. Morgenstern

#### FTP-OP-03

A LOOK BEHIND THE SCENES OF ROTAVIRUSES

M. Harzer, B. Euring, K. Heenemann, A. Rückner, T.W. Vahlenkamp

#### FTP-OP-04

RABIES IN PIGS: CLINICAL REPORT AND DIAGNOSTIC CHALLENGES

S. Davi Traverso, J. Cristani, W. Consoni, C.S. Wisser

#### FTP-OP-05

ATTITUDES TOWARDS THE POTENTIAL USE OF NEEDLELESS INJECTION DEVICES (HIPRADERMIC®) IN THAI PIG FARMS

P.P. Pwint Thu, A. Buakhiew, C. Ananratanakul, N. Deelum, N. Chavaranggul, J. Saewong, S. Tantasarn, T. Sittikorn, F.D.M. Botet, N. Am-In

#### FTP-OP-06

A SURVEY OF BIOSECURITY MEASURES ON COMMERCIAL FARMS IN SOUTHERN AFRICA

D. Mostert

#### FTP-OP-07

MANAGEMENT AFTER ASF OUTBREAK IN A FINISHER FARM: A REAL STORY

P. Poolperm, N. Phetphloy

#### FTP-OP-08

ASSESSMENT OF RISK FACTORS FOR SPREADING OF AFRICAN SWINE FEVER IN BACKYARD PIG HOLDINGS IN THE BELGRADE CITY AREA

B. Kureljušić, B. Savić, B. Milovanović, N. Jezdimirović, D. Glišić, J. Prodanov Radulović, V. Milićević

#### FTP-OP-09

DIVERSE, FIBROUS CREEP DIET INCREASES THE AMOUNT OF EATERS DURING SUCKLING PERIOD

K. Goris, M. Decoux, C. Vanderhaeghe, J. De Laat, G. Montovani, R. Faris



## FTP-OP-10

REDUCTION OF ACARIS SUUM IN ORGANIC PIG FARMS - A FIELD STUDY

H. Nienhoff, S. Döring

## FTP-OP-12

WOUNDS ON UMBILICAL OUTPOUCHINGS OF SLAUGHTER PIGS

T.B. Jensen, B.M. Jørgensen, A. Birch, J.S. Pelck, N.P. Nielsen, H.E. Jensen

## FTP-OP-13

PORCINE CIRCOVIRUS 2 (PCV2) SURVEILLANCE - LONGITUDINAL SAMPLING TO ASSESS PCV2 FLOW DYNAMICS VIA DIAGNOSTICS AND PERFORMANCE DATA

G. Greaves, C. Werth, C. Lichty, B. Dewolf, M. Misener

## FTP-OP-14

CONSEQUENCES OF NO TAIL DOCKING IN PIGS IN BRAZIL II: HUMAN-ANIMAL INTERACTION AND PRODUCTIVE PERFORMANCE

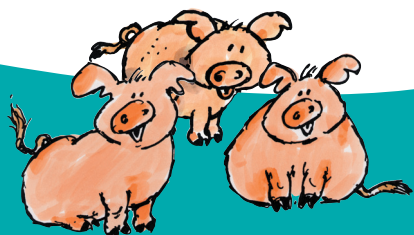
J. Rego Ribas, J. Grajales-Cedeño, I. Gianeis, V. S. Sobral, M. Paranhos Da Costa

6

Thursday  
June

## For healthy and productive pigs

Veyx-Pharma is a medium-sized family-owned veterinary pharmaceutical enterprise based in Germany. The product range includes veterinary pharmaceuticals, complementary feed and animal care products. Today Veyx' products are available in more than 60 countries.



**Veyx-Pharma GmbH**  
Soehreweg 6  
34639 Schwarzenborn  
Germany  
Phone 0049 5686 99860  
E-Mail zentrale@veyx.de  
[www.veyx.com](http://www.veyx.com)



7

Friday  
June

## Plenary

**KEYNOTE SESSION: INFECTIOUS AGENTS ESCAPE STRATEGIES - PLAYING HIDE AND SEEK**

Chaired by Dr. Nicolas Rose and Dr. Won Hyung Lee

8.30-9.00

The porcine host and immunological escape, Prof. Dirk Werling

9.00-9.30

Pathogen strategies of immune evasion, Prof. Thomas Vahlenkamp

9.30-10.00

Round table discussion

## Hall 1

**KEYNOTE SESSION: PLF (Precision Livestock Farming) AND HERD HEALTH MANAGEMENT**

Chaired by Prof. Doris Hölting and Dr. Dražen Hižman

8.30-9.00

PLF implementation in pig farming, Dr. Carlos Piñeiro

9.00-9.30

The circular pig farming: a possibility for the future?, Prof. Liang Chou Hsia

9.30-10.00

Round table discussion

10.00-10.30

Coffee Break &amp; Poster Viewing

10.30-12.10

Oral presentations

## Plenary

**WELFARE AND ETHOLOGY**

Chaired by Prof. Elisabeth grosse Beilage and Dr. Adél Orosz

## Hall 1

**PLF (Precision Livestock Farming)**

Chaired by Dr. Carlos Piñeiro and Prof. Doris Hölting

12.10-13.00

Coffee Break &amp; Poster Viewing

## Hall 1

13.00-15.00

Closing Ceremony

# Oral PRESENTATIONS

10.30-12.10

20 minutes each (15' presentation and 5' discussion)

## WELFARE AND ETHOLOGY

### Plenary

**Chaired by Prof. Elisabeth grosse Beilage and Dr. Adél Orosz**

#### WEL-OP-01

ATTITUDES AND BELIEFS ABOUT TAIL BITING AND DOCKING IN PIGS

A. Knörr, A. Bearth, X. Zhou, M. Siegrist

#### WEL-OP-02

EXPLORING THE GENETIC COMPONENT OF MATERNAL BEHAVIOR ON PIGLET CRUSHING IN A CRATED AND FREE FARROWING SYSTEM

C. Lipori, I. Reimert, E.F. Knol, E.A.M. Graat, I.M. Van As, N.M. Soede

#### WEL-OP-03

THE ROLE OF EAR MANIPULATIONS BY PEN MATES IN PORCINE EAR NECROSIS

M. Malik, D. Maes

#### WEL-OP-04

ECONOMIC IMPACTS AND WELFARE CONSIDERATIONS IN SWINE PRODUCTION: A COMPARATIVE ANALYSIS OF GESTATION CRATE AND GROUP HOUSING SYSTEMS

L.K.S. Alves, C. Raineri, C.A. Pospissil Garbossa, M.D. Pairis-Garcia

#### WEL-OP-05

PREVALENCE OF AND RISK FACTORS FOR TAIL LESIONS IN NURSERY PIGS

A. Valros, M. Tuominen-Brinkas, H. Koskikallio, K. Ahlqvist, M. Heinonen, C. Munsterhjelm

## PLF (PRECISION LIVESTOCK FARMING)

### Hall 1

**Chaired by Dr. Carlos Piñeiro and Prof. Doris Hölting**

#### PLF-OP-01

DEVELOPING A WEAN-QUALITY SCORE TO FORECAST NURSERY MORTALITY: A MACHINE-LEARNING APPROACH

E. Magalhaes, G. Trevisan, C. Wang, D. Correia Lima Linhares, G. De Souza E Silva

#### PLF-OP-02

LIFETIME RFID EAR TAG RETENTION IN A COMMERCIAL & FIELD-BASED RESEARCH TRIAL

H. Schwecke, M. Pieters



Friday  
June

# Oral PRESENTATIONS

10.30-12.10

20 minutes each (15' presentation and 5' discussion)

#### PLF-OP-03

A PHEROMONE-ASSISTED ENRICHMENT DEVICE ALLOWS PIGS TO SELF-VACCINATE FOR SALMONELLA

R. Robbins, C. Archer, L. Gimenez-Lirola, J.C. Mora-Diaz, J. Mcglone

#### PLF-OP-04

A MODEL TO PREDICT WATER CONSUMPTION IN GROWING PIGS

M. Marroco, A. Fernández-Fontelo, J. Segalés, B. Garcia-Morante

#### PLF-OP-05

RELATIONSHIP BETWEEN ENVIRONMENTAL, RESPIRATORY HEALTH STATUS AND PRODUCTION PERFORMANCE PARAMETERS IN FULLY MONITORED GROWING SWINE FARMS: A PRECISION LIVESTOCK CROSS-FARMING STUDY

L. Kurschilgen, C. Alonso Garcia-Mochales, M. Steenaert, F. Gonzalvo

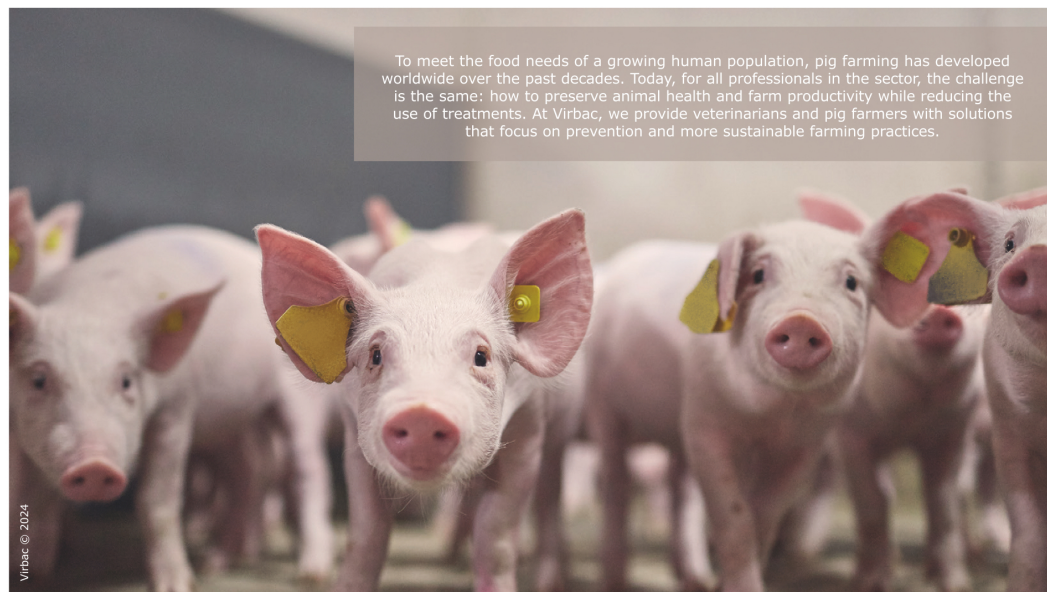
# Oral PRESENTATIONS



Shaping the future  
of animal health






Do you want to  
know more about  
our Swine strategy  
at Virbac?  
Scan the QR Code






# Social PROGRAMME

## Welcome Reception




-  Tuesday, 4<sup>th</sup> June 2024 H. 17.30 - 19.00
-  Exhibition Hall 2
-  Included in the registration fee






## Sightseeing tour on a motorboat

-  Tuesday, 4<sup>th</sup> June 2024 H. 13.00
-  Meeting point: Stadthafen Leipzig, Schreiberstraße 20, 04109 Leipzig
-  For participants who purchased the ticket




## Sightseeing tour & guided city tour

-  Wednesday, 5<sup>th</sup> June 2024 H. 17.00
-  Meeting point: Entrance CCL
-  For participants who purchased the ticket

## Congress Party "Oktoberfest"




-  Thursday, 6<sup>th</sup> June 2024 H. 19.00 - 1.00
-  KONGRESSHALLE am Zoo Leipzig
-  For participants who purchased the ticket

## Brewery Tour - The secrets of brewing beer



-  Wednesday, 5<sup>th</sup> June 2024 H. 17:00
-  Meeting point: Entrance CCL
-  For participants who purchased the ticket



## Porsche Factory tour A look behind the scenes at the Porsche Factory

-  Wednesday, 5<sup>th</sup> June 2024 H. 17:00
-  Meeting point: Entrance CCL
-  For participants who purchased the ticket

## Sightseeing Tour & guided wine tour with tasting

-  Saturday, 8<sup>th</sup> June 2024 H. 8:30
-  For participants who purchased the ticket



# General INFORMATION



## Conference Venue and Attendance

The IPVS&ESPHM 2024 is held at Congress Center Leipzig  
Seehausener Allee 1, 04356 Leipzig, Germany



## Name Badge

A name badge will be required to access the congress area. Please note that only participants wearing full congress badges are entitled to attend sessions. It must be worn at all times. All participants are asked to download and print their tickets and bring them along. Lanyards and badge holders are available at the venue.



## Language

The official language of the Congress is English.

## Exhibition opening hours

Tuesday, 4 <sup>th</sup> June	13.00 - 19.00
Wednesday, 5 <sup>th</sup> June	8.00 - 18.00
Thursday, 6 <sup>th</sup> June	8.00 - 18.00
Friday, 7 <sup>th</sup> June	8.00 - 13.00 (to 15.00 Closing ceremony)

## Registration desk opening hours

Tuesday, 4 <sup>th</sup> June	12.30 - 19.00
Wednesday, 5 <sup>th</sup> June	7.30 - 15.00

## Cloakroom opening hours

Tuesday, 4 <sup>th</sup> June	13.00 - 20.00
Wednesday, 5 <sup>th</sup> June	7.45 - 19.00
Thursday, 6 <sup>th</sup> June	7.45 - 18.30
Friday, 7 <sup>th</sup> June	7.45 - 15.30



## Slide centre

The Slide center will be located in the Congress Center Leipzig - Banqueting room 3, Level 0.

### Opening hours

Tuesday, 4 <sup>th</sup> June	13.00 - 17.00
Wednesday, 5 <sup>th</sup> June	8.00 - 17.00
Thursday, 6 <sup>th</sup> June	8.00 - 17.00
Friday, 7 <sup>th</sup> June	8.00 - 13.00



## Wifi

**NETWORK:** Leipziger Messe  
**USERNAME:** WIFI\_sponsoredbyBI  
**PASSWORD:** Pig2024

## Virtual platform

All registered participants can access the authors' scientific contributions through the virtual platform ([www.esphm.org](http://www.esphm.org)).  
E-posters, proceedings and oral and flash presentations are available during the congress.  
The keynote presentations will be uploaded a few days after the event.

Sponsored by Boehringer Ingelheim







### APP

Download the official congress App and stay tuned!  
Search for "IPVS&ESPHM 2024" on your mobile APP store or scan the QR Code:



### Certificates of attendance

Certificates of participation will be sent to participants by email within one month of the end of the event. German participants will be receiving ATF certificates to the email address used for registration within one month of the event.



### List of posters

The list of posters is available on the congress App.



### Photographs and videos

Taking photographs and/or videos of posters or oral presentations is not allowed. Please note that during the Congress and its social moments, an official photographer will take photos that will be used for post-event activities. Please notify the photographer if you do not want to be photographed.



### Follow us and post on our social networks

@ipvs&esphm 2024  
#ipvs&esphm2024



### Emergency number and insurance

Calling the ambulance, the police, the fire service, and the general emergency number (112) is free of charge. Registration fees do not include insurance of participants against personal accidents, sickness, and/or cancellations by any party, theft, loss or damage to personal possessions.



### Taxi

We recommend that attendees download "FREENOW", a mobility app that offers taxi rides in a timely and inexpensive manner.



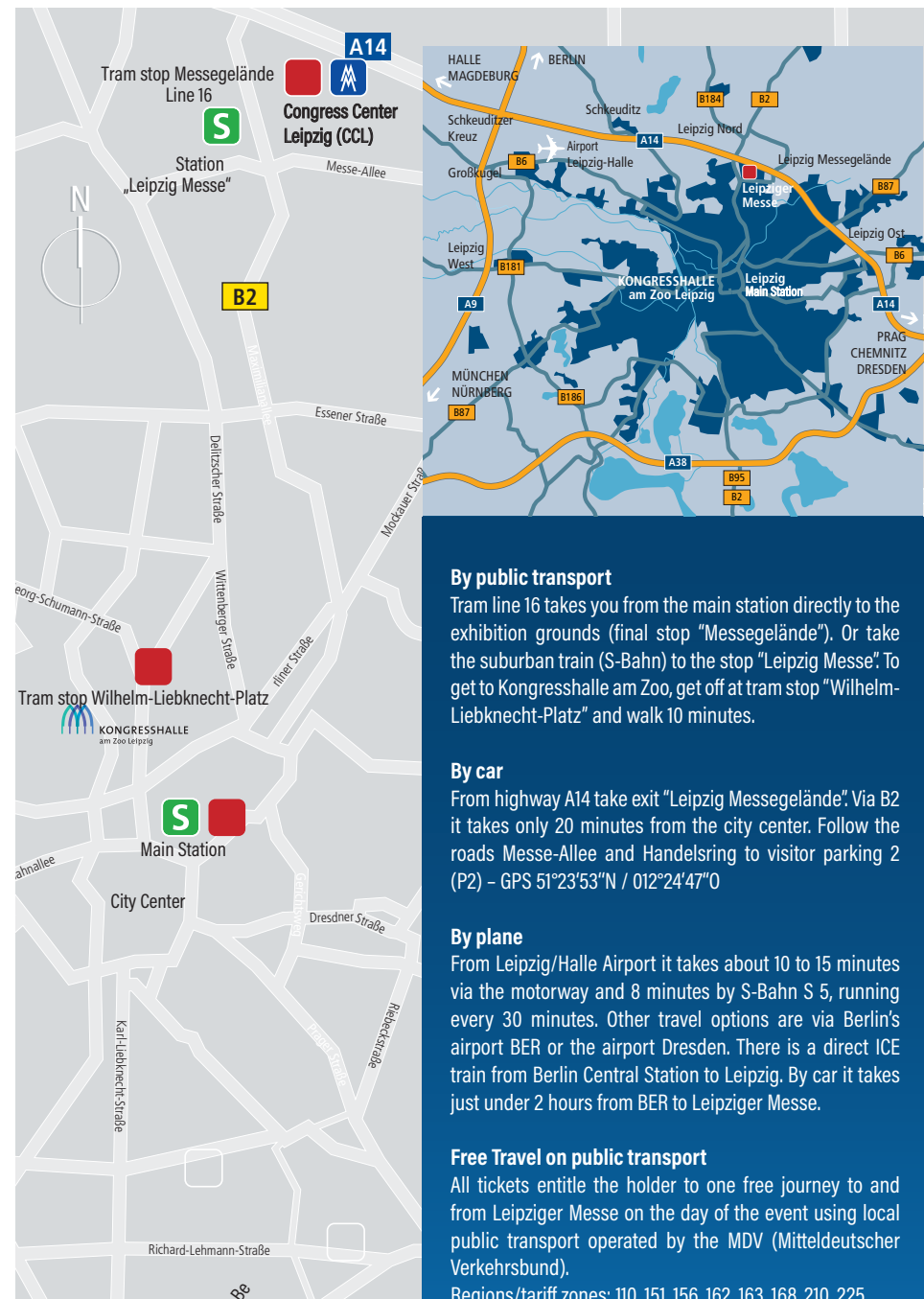
### Tip

Tipping is not mandatory in Germany, but it is quite common and is given as a sign of satisfaction with the service. In restaurants it is customary to tip around 5-10% of the bill. When taking a taxi, people often round up the fare to the nearest euro or give a few euros extra. You can tip around 1-2 euros per day for maids in hotels.



### Contacts

Leipziger Messe GmbH: +49 341/678-6972



### By public transport

Tram line 16 takes you from the main station directly to the exhibition grounds (final stop "Messegelände"). Or take the suburban train (S-Bahn) to the stop "Leipzig Messe". To get to Kongresshalle am Zoo, get off at tram stop "Wilhelm-Liebkecht-Platz" and walk 10 minutes.

### By car

From highway A14 take exit "Leipzig Messegelände". Via B2 it takes only 20 minutes from the city center. Follow the roads Messe-Allee and Handelsring to visitor parking 2 (P2) – GPS 51°23'53"N / 012°24'47"O

### By plane

From Leipzig/Halle Airport it takes about 10 to 15 minutes via the motorway and 8 minutes by S-Bahn S 5, running every 30 minutes. Other travel options are via Berlin's airport BER or the airport Dresden. There is a direct ICE train from Berlin Central Station to Leipzig. By car it takes just under 2 hours from BER to Leipziger Messe.

### Free Travel on public transport

All tickets entitle the holder to one free journey to and from Leipziger Messe on the day of the event using local public transport operated by the MDV (Mitteldeutscher Verkehrsbund).

Regions/tariff zones: 110, 151, 156, 162, 163, 168, 210, 225





#### The Organisers



**ECPHM**

EUROPEAN COLLEGE  
OF PORCINE HEALTH  
MANAGEMENT



UNIVERSITÄT  
LEIPZIG

#### Organising Secretariats



# MORE than just an antibiotic...



TARGETS  
INFECTION



IMMUNO  
MODULATION



REDUCED  
INFLAMMATION



**VALOSIN® AIVLOSIN®**

## because he is MORE than just a finisher

You provided the **best housing**. You worked hard to **achieve high biosecurity** standards. And you were **rigorous over climate control**. To you, he is an **investment in time, money and expertise** and **so much more than 'just another finisher'**. Luckily, Aivlosin® is **much more than just an antibiotic** effective against *Mycoplasma hyopneumoniae*. It also **reduces the inflammatory impact** of infection and has **additional immunomodulatory benefits** which **help to resolve disease**.

As if that wasn't impressive enough, Aivlosin® can be used at a **low effective therapeutic dose** and has a **short withdrawal period**. With **no demonstrable resistance** by *Mycoplasma hyopneumoniae* and repeated **proven performance in the field**, it is not only a responsible choice, **it is a great choice**.



We would love to speak to you during the  
congress. WhatsApp +44 (0)7919 552 054  
Scan the QR Code | Visit stand no. D06

## EXPECT MORE

[www.ecoanimalhealth.com](http://www.ecoanimalhealth.com)



Aivlosin® and Valosin® are registered trademarks of ECO Animal Health Ltd, London, United Kingdom and are trade names for the same veterinary medicinal products which contain tylvalosin. Registered claims and packaging may vary between countries; please check your local label. **VETERINARY PRESCRIPTION ONLY. USE MEDICINES RESPONSIBLY.** Further information about Aivlosin® 625 mg/g Granules for Use in Drinking Water for Pigs and Aivlosin® 42.5 mg/g Premix for Medicated Feeding Stuff for Pigs are available from the Summary of Product Characteristics, your local ECO Animal Health representative and [www.ema.europa.eu](http://www.ema.europa.eu). ECO Animal Health, The Grange, 100 The High Street, Southgate, London, N14 6BN, United Kingdom. Tel: +44 (0)20 8 447 8899 [www.ecoanimalhealth.com](http://www.ecoanimalhealth.com). AIV/PIG/IPVS Ad/ Jun '24.

To meet the food needs of a growing human population, pig farming has developed worldwide over the past decades. Today, for all professionals in the sector, the challenge is the same: how to preserve animal health and farm productivity while reducing the use of treatments. At Virbac, we provide veterinarians and pig farmers with solutions that focus on prevention and more sustainable farming practices.



**ANSWERING THE CURRENT CHALLENGES  
OF SWINE FARMING**

- Solutions to limit the impact of the main swine diseases
- A global approach that emphasizes prevention
- Encouraging good husbandry practices to better protect sows and piglets from disease



Do you want to  
know more about  
our Swine strategy  
at Virbac?

**Scan the QR Code**