COME MEET US AND START AN AMAZING SWINE HEALTH TOUR AT OUR BOOTH

Featuring

- Brand new approach for reproductive problems
- Eye-catching 3D holographic animation
- User-friendly demo with needle-free vaccination
- Product experience with IDAL 3G and IDAL 3G Twin

Floor 5 - K.F. Hein Foyer
They say ‘lung lesions’. I say ‘performance’.
HIGH PERFORMANCE THROUGH EXPERIENCE – ON EACH SINGLE PRODUCT WE SELL

Durable – premium-quality syringes made from medical grade materials
Accurate – highest dosing accuracy eliminates over- and underdosing
Versatile – the right syringe for every purpose
Smart – easy maintenance for long service life
Resistant – robust components allow for use with nearly every vaccine
Satisfying – exceeding customer expectations with over 95 years of experience

For further information please contact:
Henke-Sass, Wolf GmbH · Keltenstrasse 1 · 78532 Tuttlingen · Germany · www.henkesasswolf.de · info@henkesasswolf.de

Durable premium-quality syringes made from medical grade materials
Accurate highest dosing accuracy eliminates over- and underdosing
Versatile the right syringe for every purpose
Smart easy maintenance for long service life
Resistant robust components allow for use with nearly every vaccine
Satisfying exceeding customer expectations with over 95 years of experience

The metal piglets really need UNLEADED!*

Quality iron for your piglet


Meet us at Floor 7 – Booth 26
On behalf of the 11th European Symposium of Porcine Health Management (ESPHM) organising committee, I am thrilled to welcome you to the Netherlands from 22 to 24 May 2019 in the city of Utrecht.

The ESPHM 2019 is a collaboration of the European College and the European Association of Porcine Health Management (ECPHM and EAPHM) and the local Dutch organising committee. The idea of hosting the 11th ESPHM in the Netherlands in 2019 originated within GD Animal Health, a leading organisation in Animal Health and Animal Production in the Netherlands, founded in 1919 so indeed exactly a century ago. Furthermore, within the organising committee the Dutch porcine veterinary community with leading institutes like Utrecht and Wageningen Universities, main industrial partners and especially the veterinary practitioners, is very well represented.

The Netherlands is a prominent European country when it comes to pig production and porcine health management. Our relatively small country is densely populated with on one hand livestock and on the other hand critical, empowered consumers. Hence we are dealing with many challenges when it comes to animal care, environmental and welfare issues and the necessary technical innovations to be prepared for a sustainable future of the European pig producing sector. So after ten consecutive increasingly successful ESPHM meetings it is about time the Netherlands is hosting the 11th version of the European Symposium.

Utrecht is a vibrant city of knowledge with young, brainy residents, a thriving creative sector and attractive business locations, just 30 minutes from Amsterdam Schiphol Airport and at the junction of the country’s key motorways and railway lines. Furthermore, Utrecht is also the home town of one of the oldest universities of the Netherlands, founded 1636, and the only faculty of veterinary medicine of the country with the largest academic veterinary hospital in Europe. The congress centre of the 11th ESPHM is Tivoli-Vredenburg, the exciting brand new concert and congress venue right in the city centre, next to the central railway station, close to hotels and within walking distance of all the historic highlights of Utrecht.

We wish you a very pleasant stay and a fruitful congress.
Welcome to the Netherlands!

Theo M.J. Geudeke,
President of the 11th ESPHM
The ECPHM is a non-profit organization within the European Board of Veterinary Specialization (EBVS). EBVS recognizes new speciality Colleges and maintain a register of European veterinary specialists (Diplomates); moreover, EBVS encourage and promote the enhanced utilization and availability of speciality services to the public and the veterinary profession. Therefore, the ECPHM is the College that works for the advance of health oriented porcine production management in the herd context in Europe and the increase of the competency of those who practice in this field. Major objectives of the ECPHM include:

• Establishing guidelines and standards of training for postgraduate education and experience prerequisite to become a specialist in the speciality 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:

• Board: represent the College and it is its main government body
• Education Committee: educational issues for the residents, including organization of the pre-symposium workshop and the summer school.
• Examination Committee: exam preparation and examination of residents.
• Credentials Committee: review and approve the candidacy of applicants to sit the exam, to set a new residency program, and re-accreditation of the diplomates.
• Nominations Committee: receive and manage the proposals for nominees at the different committees and board.

COMMITTEES

LOCAL ORGANIZING COMMITTEE
• Theo Geudeke (Chair)
• Alex Eggen
• Hetty Schreurs
• Arjan Stegeman
• Tineke van de Veerdonk
• Peter van der Wolf

BOARD OF THE EAPHM
• Rick Janssen - President
• Giovanbattista Guadagnino - President-elect (Junior Vice-President)
• Andreas Palzer - immediate Past-President (Senior Vice-President)
• Thomas Würth - Treasurer
• Tijs Tobias - Secretary
• Marco Terreni - Industry Representative, Board Member
• Kazimierz Tarasiuk - Ordinary Board Member

THE EAPHM IS SUPPORTED BY
• Alex Eggen - Executive Director
• Ulrike Tewes - Secretary, based at the FVE office in Brussels, Belgium
• Tania Susmelj - Secretary, based at MV Congressi in Parma, Italy

BOARD OF THE ECPHM
• Paolo Martelli - President
• Heiko Nathues - Vice-President
• Joaquim Segalés - Past-President
• Isabel Hennig-Pauka - Treasurer
• Tijs Tobias - Secretary
• Francisco Javier Martínez Lobo - Board Member
• Helle Stege - Board Member

THE ECPHM IS SUPPORTED BY
• Tania Susmelj - Secretary, based at MV Congressi in Parma, Italy

ECPHM

THE EUROPEAN COLLEGE OF PORCINE HEALTH MANAGEMENT LTD.

www.ECPHM.org

The ECPHM is a non-profit organization within the European Board of Veterinary Specialization (EBVS). EBVS recognizes new speciality Colleges and maintain a register of European veterinary specialists (Diplomates); moreover, EBVS encourage and promote the enhanced utilization and availability of speciality services to the public and the veterinary profession. Therefore, the ECPHM is the College that works for the advance of health oriented porcine production management in the herd context in Europe and the increase of the competency of those who practice in this field. Major objectives of the ECPHM include:

• Establishing guidelines and standards of training for postgraduate education and experience prerequisite to become a specialist in the speciality 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:

• Board: represent the College and it is its main government body
• Education Committee: educational issues for the residents, including organization of the pre-symposium workshop and the summer school.
• Examination Committee: exam preparation and examination of residents.
• Credentials Committee: review and approve the candidacy of applicants to sit the exam, to set a new residency program, and re-accreditation of the diplomates.
• Nominations Committee: receive and manage the proposals for nominees at the different committees and board.
EUROPEAN SYMPOSIUM OF PORCINE HEALTH MANAGEMENT

Website: changing from year to year; this time www.esphm2019.org

The first ESPHM was organized by the EXPHM in 2009 in Copenhagen (Denmark). Subsequent meetings were organized in Hannover (Germany) and Helsinki (Finland). After the creation of the European Association of Porcine Health Management (EAPHM) in 2010, the following symposia were organized in a three-party fashion, involving the EAPHM, the ECPHM and the local organizers.

ESPHM 2009 Copenhagen (Denmark) ESPHM 2014 Sorrento (Italy)
ESPHM 2010 Hannover (Germany) ESPHM 2015 Nantes (France)
ESPHM 2011 Helsinki (Finland) ESPHM 2016 Dublin (Ireland)
ESPHM 2012 Bruges (Belgium) ESPHM 2017 Prague (Czech Republic)
ESPHM 2013 Edinburgh (United Kingdom) ESPHM 2018 Barcelona (Spain)

By means of this organizational formula, the ESPHM has been held so far in various European Countries. The 11th edition will be held in in 2019 in Utrecht (The Netherlands).

The ESPHM in the expression of a long-standing need at a European level. The lack of a continental swine veterinarian congress like in North-America (American Association of Swine Veterinarians Annual Meeting) and Asia (Asian Pig Veterinary Society), prompted first the EXPHM and then the EAPHM to organize a yearly meeting devoted to all subjects of porcine health management. The symposium philosophy consist of mounting a sound program, with cutting-edge scientific-technical knowledge, practically oriented, which is able to catch the attention of swine veterinarians all over Europe, but with full international vocation. The symposium's content includes invited lectures, initiating always with the state-of-art swine production in the organizing country, as well as oral communications and posters.

Importantly, the ESPHM is an excellent platform for introducing the ECPHM Residents into the scientific world, by presenting their studies (Resident oral communication sessions) and participating in the College activities organized around the symposium (e.g., Resident workshop, farm visits). In addition, the ESPHM must serve as a vehicle for potentiating networking among pig veterinary professionals all around Europe, and emphasize the global character of a borderless profession. Also, Annual General Meetings of both EAPHM and ECPHM are organized within the program of the symposium, and facilitate that the critical masses of both organizations can join together once a year.
Porcine Health Management (PHM) is an open access peer-reviewed journal that aims to publish relevant, novel and revised information regarding all aspects of swine health medicine and production. The journal provides a venue for global research on swine 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 Dominiek Maes (University of Ghent, Belgium) and Joaquim Segalés (Universitat Autònoma de Barcelona and CReSA-IRTA, Spain).

PHM has been published articles since 2015 and it is now indexed in different databases, including the MedLine (PubMed). Please use the online submission system to submit your manuscript. For all enquiries about the journal, technical issues, payment of article processing chargers (APCs), etc. please contact: 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 color 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

<table>
<thead>
<tr>
<th>WEDNESDAY MAY 22&lt;sup&gt;nd&lt;/sup&gt;</th>
<th>THURSDAY MAY 23&lt;sup&gt;rd&lt;/sup&gt;</th>
<th>FRIDAY MAY 24&lt;sup&gt;th&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>08h00 Registration</td>
<td>08h00 Registration</td>
<td>08h00 Registration</td>
</tr>
<tr>
<td>08h30 – 10h00 Keynote Sessions</td>
<td>08h30 – 10h00 Keynote Sessions</td>
<td>08h30 – 10h00 Keynote Sessions</td>
</tr>
<tr>
<td>10h00 – 10h30 Coffee Break and Poster Viewing</td>
<td>10h00 – 10h30 Coffee Break and Poster Viewing</td>
<td>10h00 – 10h30 Coffee Break and Poster Viewing</td>
</tr>
<tr>
<td>10h30 – 12h30 Parallel Sessions</td>
<td>10h30 – 12h30 Parallel Sessions</td>
<td>10h30 – 12h30 Parallel Sessions</td>
</tr>
<tr>
<td>12h30 – 13h00 Lunch break and poster viewing</td>
<td>12h30 – 12h30 Lunch break and poster viewing</td>
<td>12h30 – 13h00 Closing Ceremony</td>
</tr>
<tr>
<td>13h00 – 13h30 Welcome and Opening</td>
<td>13h30 – 15h00 Keynote Sessions</td>
<td>15h00 – 15h20 EAPHM Peter Hagedal Award and JPHM presentation</td>
</tr>
<tr>
<td>13h30 – 15h00 Keynote Sessions</td>
<td>15h00 – 15h20 Keynote Sessions</td>
<td>15h00 – 15h20 Keynote Sessions</td>
</tr>
<tr>
<td>15h00 – 15h30 Coffee Break and Poster Viewing</td>
<td>15h20 – 16h20 Parallel sessions</td>
<td>15h00 – 15h30 Coffee Break and Poster Viewing</td>
</tr>
<tr>
<td>15h30 – 17h30 Parallel Sessions</td>
<td>16h20 – 16h40 Coffee Break and Poster Viewing</td>
<td>15h30 – 17h30 Parallel Sessions</td>
</tr>
<tr>
<td>17h40 – 18h40 ECPHM – Annual General Meeting</td>
<td>16h40 – 18h00 Parallel Sessions</td>
<td>17h40 – 18h40 ECPHM – Annual General Meeting</td>
</tr>
<tr>
<td>18h00 – 19h30 Welcome Reception</td>
<td>18h10 – 19h10 EAPHM – Annual General Meeting</td>
<td>18h00 – 19h30 Welcome Reception</td>
</tr>
<tr>
<td>20h00 – 23h00 Pub Crawl</td>
<td>20h00 – 23h00 Symposium Farewell Dinner</td>
<td>20h00 – 23h00 Pub Crawl</td>
</tr>
</tbody>
</table>

**Porcine Health Management**

www.porcinehealthmanagement.biomedcentral.com
**KEYNOTE LECTURES**

**JOHN BEREZOWSKI**

Occurred: Wednesday May 22, 2019 / 13h30 – 14h00  
Venue: Grote Zaal

"Big data in pig epidemiology"

John Berezowski is a Canadian born veterinarian who spent 18 years in food animal practice before completing his PhD in veterinary epidemiology in 2003. He then spent 8 years as a practicing epidemiologist in Canada where he focused much of his work on developing projects and programs aimed at creating information about livestock health, production and welfare for a variety of stakeholders. He currently works at the University of Bern in Switzerland where his research focus is on surveillance systems, big data and other methods for creating information that support decision-making by a wide variety of stakeholders in livestock production systems.

**DANIEL BERCKMANS**

Occurred: Wednesday May 22, 2019 / 14h00 – 14h30  
Venue: Grote Zaal

"Smart data in health management"

Daniel Berckmans has a Master Degree and a Ph.D. in Bio-Science Engineering from the Katholieke Universiteit Leuven in Belgium. As full professor he headed for 25 years the Division M3-BIORES (Measure, Model and Manage Bioresponses), Department of Biosystems, Faculty of Bioscience Engineering at the Katholieke Universiteit Leuven. The main field of research consists of real time signal analysis of humans and animals, by using technology like wearables, cameras and microphones. The focus lies on the development of real time wearable algorithms to monitor and improve the life of individuals.

During the last 20 years, the research group permanently counted 25-30 researchers who prepare a Ph.D. Daniel is considered as the spiritual father of the concept of Precision Livestock Farming and the team is recognised as a worldwide leading team in this field that has become important in the whole world. He initiated the first European Masters in Human Health Engineering (technology for healthy people), organised by four collaborating faculties at KU Leuven. Today half of the research team is working on animal applications (health monitoring, welfare monitoring, etc) and half on human applications like intensive care unit, stress monitoring, sleep monitoring etc.
Daniel is co-author of over 300 scientific articles in peer-reviewed journals and over 400 papers in conference proceedings. He is member of several international advisory boards, visitation commissions in several European countries, and six international professional organisations worldwide.

Daniel has been a member of more than 63 Ph.D commissions in nine different countries. Written research agreements have been signed with over 48 research teams worldwide. About 165 master students for bio-engineer have finished their master thesis in the team.

Since 1982, 17 products have been developed for the world market in co-operation with industrial partners. 20 patents have been submitted. He has coordinated several EU-projects with the last one counting 20 partners and a budget of 8 M euro. Daniel is co-founder of 3 spin-off companies: BioRICS NV in 2006 on monitoring humans, Soundtalks NV in 2011 on monitoring livestock and BioRICS INC in San Francisco in 2016.

JAAP WAGENAAR

Thursday May 23, 2019 / 08h30 – 09h00  Grote Zaal

“Antimicrobial Stewardship in pig health management”

Jaap Wagenaar was trained as veterinarian and completed his PhD study at Utrecht University and the USDA-National Animal Diseases Center, Ames, IA, US. In 1996 he started his research group at the Central Veterinary Institute (now: Wageningen Bioveterinary Research) in Lelystad, the Netherlands, on food safety and in particular on Campylobacter. From 2004-2006 he worked with WHO (Headquarters, Geneva, Switzerland, and for the Tsunami-relief operations with WHO Indonesia), the Centers for Disease Control and Prevention (Atlanta, US) and the USDA Western Regional Research Center (Albany, Ca, US).

In 2006 he was appointed as chair in Clinical Infectious Diseases at the Faculty of Veterinary Medicine, Utrecht University. His research group is focussing on Campylobacter and antimicrobial resistance. He was coordinator of a large EU-project on antimicrobial resistance (EFFORT) (2013-2018). He is member of the WHO-AGISAR-group (Advisory Group on Integrated Surveillance of Antimicrobial Resistance) and WHO-Global Foodborne Infections Network, a global capacity building network. He is member of the scientific panel of the Netherlands Veterinary Medicines Institute (SDa) and involved in the major reduction of antimicrobial use in livestock. He is member of the Technical Advisory Group of the Fleming Fund. He is director of the WHO Collaborating Center for Campylobacter and of the OIE-reference laboratory for Campylobacteriosis, and is acting frequently as expert for WHO, FAO and OIE.

ANDREAS PALZER

Thursday May 23, 2019 / 09h00 – 09h30  Grote Zaal

“AM reduction in practice”

Dr Andreas Palzer is partner and director of the Scheidegg Veterinary Practice in Bavaria, Germany, within which ten veterinarians treat all animals. Dr Palzer specialises in pigs; his wife Dr Brenda Babel-Palzer is a leading vet in the small animals section. Dr Palzer also lectures as associate professor in the veterinary faculty of the Ludwig Maximillian University (LMU) in Munich. He is a member of the presidium of the Federal Association of Practicing Veterinarians (bpt) in Germany and president of the European Association of Porcine Health management (EAPHM). EAPHM is a community of specialist pig veterinarians in Europe with the aim of providing European practitioners with a platform for sharing information and works closely with the FVE (the Federation of Veterinarians in Europe) and Union of European Veterinary Practitioners (UEVP).

DESMOND MAGUIRE

Thursday May 23, 2019 / 13h30 – 14h00  Grote Zaal

“Pigs with long tails, the EU perspective”

Senior administrator working at the European Commission’s Directorate General for Health and Food Safety in the Directorate of Health, Food, Audits and Analysis. Project Leader of European Commission’s three year project to reduce the systematic tail docking of piglets in the EU. Working for 11 years in the field of animal welfare on farm, during transport, and at slaughter: primarily as an auditor but also as a desk officer leading campaigns on animal welfare during transport and now on pig welfare. I believe it is extremely important to bring enthusiasm and clarity to communicating the Commission’s goals and in achieving tangible outcomes for its ambitions............
NICOLE KEMPER
Thursday May 23, 2019 / 14h00 – 14h30  Grote Zaal
“Keeping pigs with long tails is possible”

Nicole Kemper, Prof. Dr. med. vet., is director of the Institute for Animal Hygiene, Animal Welfare and Farm Animal Behaviour at the Veterinary University of Hannover (TiHo) since August 2013. She achieved her license to practice in 2001 in Leipzig and obtained her doctoral degree in 2004. For the following years, she worked as PostDoc at the Institute of Animal Breeding and Husbandry, University Kiel, involved in many projects concerning Animal Health and Hygiene. She achieved her Habilitation in 2009 and was announced as Professor of Hygiene and Reproduction Physiology of Farm Animals at the Institute of Agricultural and Nutritional Science, University Halle in 2010.

Nicole is Certified Veterinary Specialist in Microbiology and in Animal Hygiene and Diplomate of the European College of Porcine Health. Nicole is co-author of more than 90 scientific publications in international peer reviewed journals.

PHILIPPE HOUDART
Friday May 24, 2019 / 08h30 – 09h00  Grote Zaal
“ASF updates and review of applied measures; practical experiences”

ANDREA GAVINELLI
Friday May 24, 2019 / 09h00 – 09h30  Grote Zaal
“ASF political experiences”

PhD in Veterinary Medicine at the University of Milan. Andrea has been dealing with several policy initiatives in the veterinary field and in particular in relation to animal health and welfare in the EU Commission since 1999. After serving 5 years as veterinary official in the Italian Ministry of Health, Andrea has been responsible in the Commission for EU policies on animal welfare where he contributed to the major international achievements in this policy area. Since 2016, he is responsible for Unit G3 that is in charge of the implementation of the new Regulation on official controls in the Food and Feed Safety area and to coordinate the control and eradication of infectious diseases in animals including the management of emergencies.

Andrea has been actively collaborating with a vast stakeholders’ network in the AGRI Food sector. The network includes public and private institutions and international organisations such as the Council of Europe, the World Animal Health Organization (OIE) and the Food and Agriculture Organization of the United Nations (FAO).

Andrea has been member of several international working groups and co-chair of technical working groups with EU trading partners in the framework of bilateral veterinary trade or cooperation agreements such as Chile, Canada, Brazil, New Zealand. He also contributed to technical working groups at international level in relation to the application and the mutual understanding of regionalization measures for the control and eradication of animal diseases.

At present, he is coordinating the main EU actions in relation to the control of major animal diseases such as African swine fever or Avian influenza but also dealing with new emerging diseases. In the area of Official Controls he coordinated the preparatory work for all the derived legislation in particular in relation to the legislation concerning the imports in the European Union. In relation to e-commerce in 2017 Andrea coordinated the first EU Control plan on the commerce of food supplements. He has contributed to several articles and publications on EU policies and animal health and welfare and in relation to the sustainability of livestock farming. He attended several international conferences and seminars to present the EU policies. In the last years he has been lecturing on animal health and welfare in postgraduate courses both in the EU (Milan, Barcelona) and abroad. In 2015 Andrea has been awarded with the Royal Society for the Prevention of Cruelty to Animals (RSPCA) European Animal Welfare Award for outstanding service in this area.
Speakers are requested to bring their presentation files on a flash drive (USB memory stick) to the Speaker Ready Room at least 4 hours in advance of your scheduled presentation, or the day before if the presentation is in one of the morning sessions. All presentations will be sent directly to the correct lecture room through the internal computer network by specialized technicians. We kindly ask all authors not to come with their own computers into the lecture room at the last minute.

Please note that use of your own computer is not possible. All presentations must be downloaded in the Speaker Ready Room beforehand.

Speakers are entirely responsible for the presentation content (order, graphics etc). All presentations and questions must be delivered in English, as English is the official language of the symposium. Time reserved for scientific presentation is 20 minutes, 15 minutes presentation followed by 5 minutes of discussion. Speakers are requested not to exceed the allocated time. The time schedule will be strictly followed due to the nature of the symposium program.

Presentation format
All presentations should meet commonly compatible format, preferably using PowerPoint version 2010 or higher in 16:9 aspect ratio.

Supported file types
- Presentation: PPT, PPA, PPTA, PPTX, PDF
- Video: AVI, MPG, MKV, MOV, MP4, WMV
- Audio: WMA, MP3, WAV
- Pictures: JPG, GIF, BMP, TIF

If the presentation includes audio (sound or voice), animation or short movie file(s), speakers are advised to save each file separately and provide it to the technical staff of the Speaker Ready Room for testing, together with your presentation file. If you have any special requirements, please make sure to get in contact with the technical staff at the Speaker Ready Room in advance, ideally 1 day before.

Opening hours of the Speaker Ready Room
- Wednesday May 22, 2019: 09h00 – 18h00
- Thursday May 23, 2019: 08h00 – 18h30
- Friday May 24, 2019: 08h00 – 10h30
In the lecture room
A lectern with microphone, beamer, screen and sound system will be available for all speakers. Using own computers in the lecture room is not supported to avoid delays during sessions.

POSTER PRESENTATIONS

Poster format
The poster boards will be set up by the organization. The poster boards surface will be 100 x 125 cm (portrait format). The recommended size of the poster is A0 format.

The presentation number assigned to your poster should not be placed on your poster. The poster boards will be numbered by the organization.

Set-up and dismantling schedule
Poster presenting authors are responsible for setting-up and taking down their poster. Pushpins will be provided by the organization. Setting up and taking down the posters will take place as following:

Set-up: Wednesday May 22, 2019: 11h00 - 14h30
Dismantling: Friday May 24, 2019: 11h00 - 13h00

Posters which have not been removed before the due time shall be detached and dumped after the corresponding session. Unclaimed posters are not the responsibility of the symposium organizers and will be disposed.
11:00 – 17:00 Registration and Poster Display

13:00 – 13:30 Welcome and Opening

Grote Zaal

- Welcome Note
- Pork Production in The Netherlands - Anton Pijpers

13:30 – 15:00 Keynote Session: Pig Health Management 4.0

Grote Zaal

Chaired by Heiko Nathues and Tineke van de Veerdonk

- Big data in pig epidemiology - John Berezowski
- Smart date in health management - Daniel Berckmans
- Round table discussion

15:00 – 15:30 Coffee Break and Poster Viewing

Coffee break: Grote zaal foyer, Plein 5 & 6, Pandora and Pandora foyer
Poster viewing: Balkon 1 and Pandora

15:30 – 17:30 Parallel Session: Herd Health Management & Economy

Grote Zaal

Chaired by Arjan Stegeman and Kazimierz Tarasiuk

HHM-OP-01
Applications of Population-Based Methods for PRRS Monitoring and Surveillance in Breeding Herds Undergoing Virus Elimination

Giovani Trevisan1, Marcelo Almeida1, Will Alberto Lopez2, Daniel Linhares3

1 Iowa State University
HHM-OP-02
DEVELOPMENT AND INITIAL EVALUATION OF AN INTEGRATED SYSTEM UTILIZING LOW POWER BLUETOOTH BEACONS, SENSORS AND A CLOUD-BASED PLATFORM TO CONCURRENTLY MEASURE NEAR-REAL TIME MOVEMENT OF PIGS, SEMEN, FEED, SUPPLIES, ASSETS AND PERSONNEL THROUGHOUT A LARGE PIG PRODUCTION NETWORK IN THE UNITED STATES
Dale Polson1, Tyler Bates1, Greg Hartsook1, Erin Lowe1, Xavier de Paz Solanes2
1 Boehringer Ingelheim Vetmedica Inc.
2 Boehringer Ingelheim Vetmedica GmbH

HHM-OP-03
DIFFERENCES BETWEEN DUTCH AND BELGIAN PIG FARMERS WITH RESPECT TO THEIR BIOSECURITY LEVEL AND ANTIMICROBIAL USAGE WITHIN THE I-4-1-HEALTH PROJECT
Nele Caekebeke1, Angelique van den Hoogen1, Moniek Ringenier1, Franca J. Jonquiere1, Tijs J. Tobias2, Merel Postma1, Manon Houben3, Francisca C. Velkers2, Nathalie Sleeckaert1, J. Arjan Stegeman1, Jeroen Dewulf1
1 Faculty of Veterinary Medicine, Ghent University, Belgium
2 Faculty of Veterinary Medicine, Utrecht University, the Netherlands
3 GD Animal Health, the Netherlands

HHM-OP-04
MEASURING THE RESPIRATORY PATHOGEN BURDEN IN GROWING PIGS TO ESTIMATE THE IMPACT OF DISEASE
Rachel Stika1, Christa Goodell2, Erin Lowe2, Ed Kluber3, David Baum1, Jeremy Maurer3, Min Zhang1, Ran Bi1, Chong Wang1, Jeffrey Zimmerman1, Luis Gimenez-Lirola1, Christopher Rademacher1, Seth Playter2, Ethan Schmaling2, Derald Holtkamp1
1 Iowa State University College of Veterinary Medicine
2 Boehringer Ingelheim Vetmedica, Inc.
3 Smithfield Farms, LLC

HHM-OP-05
MODELLING THE EFFECT OF RESPIRATORY DISEASE ON PRODUCTION PERFORMANCE OF FARROW-TO-FINISH PIG HERDS
Maria Rodrigues da Costa1,2,3, Albert Rovira1, Montserrat Torremorell1, Rose Fitzgerald1, Josep Gasà Gasò1, Helen O’Shea1, Edgar Garcia Manzanilla1,2
1 Pig Development Department, Teagasc - Animal & Grassland Research and Innovation Centre, Moorepark, Fermoy, Co. Cork, Ireland
2 Departament de Ciencia Animal i dels Aliments, Facultat de Veterinaria, Universitat Autònoma de Barcelona, Bellaterra 08193, Barcelona, Spain
3 School of Veterinary Medicine, University College Dublin, Belfield, Dublin 4, Ireland

HHM-OP-06
COLOSTRUM INTAKE IN PIGS: ANALYSIS OF THE VARYING FACTORS IN 10 COMMERCIAL FARMS
Philippe Leneveu1, Benoit Launay2, Agnès Jardin1, Paul Creach1, Verena Schuler1, Anne Lehebel1, Milly Leblanc-Maridor1, Catherine Belloc2
1 IDT Biologika, 17 Rue du Sabot, 22 440 Ploufragan, France
2 BIOEPAR, INRA, Oniris, Université Bretagne Loire, 44 307 Nantes, France
3 IDT-Biologika GmbH

RES-OP-01
THE SUCCESSFUL ERADICATION OF MYCOPLASMA HYOPNEUMONIAE FROM NORWEGIAN PIG HERDS – 10 YEARS LATER
Stine Margrethe Gulliksen1,2, Bjørn Lium3, Tore Framstad4, Anne Jørgensen5, Audun Skomsøy5, Mona Gjestvang3, Oddbjørn Kjelvik7, Carl Andreas Grøntvedt8
1 Animalia
2 Norwegian Pig Health Service
3 Prev. Norwegian Pig Health Service
4 Norwegian University of Life Sciences
5 Prev. Norwegian Pig Health Service
6 Nortura
7 Prev. Nortura
8 The Norwegian Veterinary Institute

RES-OP-02
UNDER THE SHADOW OF AFRICAN SWINE FEVER: A COLLECTION OF CASES OF PIGLETS WITH HAEMORRHAGES
Lucia Dieste-Perez1, Linda Peeters1, Theo Geudeke1, Karin Junker1
1 GD Animal Health, Deventer, The Netherlands

RES-OP-03
IMPACT OF WASHING AND DISINFECTION OF MAMMARY GLANDS ON SOW AND PIGLET HEALTH AND PERFORMANCE
Alexandra Schoos1, Annelies Michiels1, Laura Stroobants1, Charlotte Brossé2, Jeroen Dewulf2, Dominiek Maes1
RES-OP-04
EDEMA DISEASE VACCINATION AS A TOOL FOR REDUCING ANTIBIOTIC USE AFTER WEANING IN A SHIGATOXIN 2E POSITIVE FARM
Susana Mesonero-Escuredo1, Joaquín Morales2, Carlos Casanovas1, Sergio Barrabés1, Joaquim Segalés3,4
1IDT Biologika SL, Gran Via Carles III, 84, 3º, 08028 Barcelona, Spain.
2PigCHAMP Pro Europa, Calle Santa Catalina, 10, 40003 Segovia, Spain.
3Departament de Sanitat i Anatomia Animals, Universitat Autònoma de Barcelona (UAB), 08193 Bellaterra, Barcelona, Spain.
4UAB, Centre de Recerca en Sanitat Animal (CReSA, IRTA-UAB), Campus de la Universitat Autònoma de Barcelona, 08193 Bellaterra, Barcelona, Spain.

RES-OP-05
CASE OF LISTERIOSIS IN FATTENING PIGS WITH HEMORRHAGIC DIARRHEA AND SUDDEN DEATH
Heiko Stein1,2, Beatrix Stessl3, Rene Brunthaler1, Igor Loncaric1, Herbert Weissenböck1, Ursula Ruczizka1, Andrea Ladinig1, Lukas Schwarz1
1University Clinic for Swine, Department of Farm Animals and Veterinary Public Health, University of Veterinary Medicine Vienna, Austria
2Vetpraxis Hegerberg, Kasten, Austria
3Institute of Milk Hygiene, Milk Technology and Food Science, Department of Farm Animals and Veterinary Public Health, University of Veterinary Medicine, Vienna, Austria.
4Institute of Pathology, Department of Pathobiology, University of Veterinary Medicine, Vienna, Austria.
5Institute of Microbiology, Department of Pathobiology, University of Veterinary Medicine, Vienna, Austria.

17H40 – 18H40 ECPHM ANNUAL GENERAL MEETING
HERTZ
Diplomates and Residents only

18H00 – 19H30 WELCOME RECEPTION
PLEIN 5 & 6

© 20H00 – 23H00 PUB CRAWL
THURSDAY 23 MAY 2019

08H00 REGISTRATION DESK OPENS

08H30 – 10H00 KEYNOTE SESSION: ANTIMICROBIAL STEWARDSHIP IN PIG HEALTH MANAGEMENT
GROTE ZAAL

Chaired by Hetty Schreurs and Giovanbattista Guadagnini

- Antimicrobial Stewardship in pig health management - Jaap Wagenaar
- AM reduction in practice - Andreas Palzer
- Round table discussion

10H00 – 10H30 COFFEEBREAK AND POSTER VIEWING

Coffeebreak: Grote Zaal foyer, Plein 5 & 6, Pandora and Pandora foyer
Poster viewing: Balkon 1 and Pandora

10H30 – 12H30 PARALLEL SESSION: VIRAL DISEASES
GROTE ZAAL

Chaired by Javier Martinez Lobo and Andreas Palzer

VVD-OP-01
FREQUENCY OF PORCINE CIRCOVIRUS 3 DETECTION IN SERUM OF PIGS WITH RESPIRATORY AND DIGESTIVE DISORDERS
Viviane Saporiti1, Tais F. Cruz2, Florencia Correa-Fiz2, José I. Núñez1, Marina Sibila1, Joaquim Segalés1,4

1 IRTA, Centre de Recerca en Sanitat Animal (CReSA, IRTA-UAB), Campus de la Universitat Autònoma de Barcelona, 08193 Bellaterra, Spain
2 Department of Immunology and Microbiology, Institute of Biosciences, College of Veterinary Medicine, São Paulo State University (UNESP), Botucatu, SP18618-000, Brazil
3 Departament de Sanitat i Anatomia Animals, Universitat Autònoma de Barcelona (UAB), 08193 Bellaterra, Barcelona, Spain.
4 IRTA, Centre de Recerca en Sanitat Animal (CReSA, IRTA-UAB), Campus de la Universitat Autònoma de Barcelona, 08193 Bellaterra, Barcelona, Spain.
VVD-OP-02
MUTATIONS IN ANTIGENIC SITES OF THE HEMAGGLUTININ PROTEIN FOLLOWING INFLUENZA VACCINATION
Pia Ryt-Hansen1, Inge Larsen2, Jesper Schak Krog3, Charlotte Sonne Kristensen4, Lars Erik Larsen5
1 National Veterinary Institute, Technical University of Denmark
2 University of Copenhagen, Dpt. of Veterinary and Animal Sciences
3 Statens Serum Institut
4 SEGES Pig Research Centre

VVD-OP-03
IMPACT OF PCV2 CO-INFECTION ON REPLICATION LEVEL OF A FIELD VACCINE-LIKE PRRSV-1 STRAIN
Julie Eclercy1, Frédéric Paboeuf1, Lionel Bigaulet1, Cécilia Bernard1, Béatrice Grasland1, Patricia Renson1, Nicolas Rose1, Olivier Bourry1
1 Anses, Ploufragan-Plouzané Nior Laboratory
2 IFIP, France

VVD-OP-04
MULTISYSTEMIC INFLAMMATION IN PIGLETS IN A HERD WITH CONGENITAL TREMOR AND CONCURRENT DEFORMITIES
Susanna Williamson1, Laura Wilson2, Rachael Collins2, Toby Floyd2, Sylvia Grierson2, Akbar Dastjerdi2
1 Animal and Plant Health Agency (APHA)
2 APHA

VVD-OP-05
IS ORF5 NUCLEOTIDE SEQUENCE ANALYSIS SUFFICIENT FOR TRACING PRRSV-1 STRAINS?
Jos Dortmans1, Rianne Buter1, Tom Duinhof1, Tomasz Stadejek2
1 GD Animal Health
2 Department of Pathology and Veterinary Diagnostics, Faculty of Veterinary Medicine, Warsaw University of Life Sciences, Warsaw, Poland

VVD-OP-06
ANALYSIS OF RESILIENCE MARKERS IN RELATION TO ABORTION RATE IN PIGS
Romi Pena1, Carlos Fernández2, María Blasco-Felip3, Lorenzo Fraile1, Joan Estany1
1 University of Lleida, Lleida, Spain
2 INZAR SL, Zaragoza, Spain
3 Free-lance veterinarian, Zaragoza, Spain
THURSDAY 23 MAY 2019

15H00 – 15H20 EAPHM, PETER HØGEDAL AWARD AND JPHM PRESENTATION
GROTE ZAAL

15H20 – 16H20 PARALLEL SESSION: BACTERIAL DISEASES
GROTE ZAAL
Chaired by Dominiek Maes and Isabel Hennig-Pauka

VPH-OP-04
UNDERSTANDING HEPATITIS E VIRUS (HEV) DYNAMICS IN A FARROW-TO-FINISH PIG FARM USING EXPERIMENTAL, FIELD AND MODELLING DATA
Morgane Salines1, Mathieu Andraud2, Nicolas Rose1
1 Anses Ploufragan-Plouzané-Niort Laboratory, Epidemiology, Health and welfare unit, PO Box 53, 22440 Ploufragan FRANCE

VPH-OP-05
APPLYING SALMONELLA VACCINATION AT THE TOP OF A UK PIG PRODUCTION PYRAMID
Judy Bettridge1, Martina Velasova1, Francesca Martelli1, Becky Gosling2, Rob Davies1, Richard Smith1
1 APHA - Weybridge

VPH-OP-06
TRENDS IN ANTIMICROBIAL CONSUMPTION IN DANISH PIG PRODUCTION IN 2014-2017 AND THE FIRST SIX MONTHS OF 2018
Nicolai Weber1, Jan Dahl2
1 SEGES Pig Research Centre
2 Danish Agriculture and Food Council

12H30 – 13H30 LUNCH BREAK AND POSTER VIEWING
Lunch break: Grote Zaal foyer, Plein 5 & 6, Pandora, Pandora foyer, Balkon 1
Poster viewing: Balkon 1 and Pandora

13H30 – 15H00 KEYNOTE SESSION: PIGS WITH LONG TAILS
GROTE ZAAL
Chaired by Theo Geudeke and Thomas Würth
- Pigs with long tails, the EU perspective - Desmond Maguire
- Keeping pigs with long tails is possible - Nicole Kemper
- Round table discussion

BBD-OP-01
SPATIAL SPREAD OF M. HYOPNEUMONIAE IN A WEAN-TO-FINISH BARN
Maria Jose Clavijo1,2, Seth Krantz3, Marissa Rotolo1, Alexandra Henao-Diaz2, Thaire Marostica1, Alexander Tucker1, Eduardo Fano5, Dale Polson5, Deanne Hemker2, Robert Fitzgerald5, Edgar Tapia6, Silvia Zimmerman6, Jean Paul Cano2, Jeffrey Zimmerman1
1 Iowa State University College of Veterinary Medicine
2 PIC North America
3 Tosh Farms
4 University of Cambridge
5 Boehringer Ingelheim Vetmedica Inc.
6 IDEXX

BBD-OP-02
EVALUATION OF THE EXTENT OF MYCOPLASMA HYOPNEUMONIAE (MHYO) SHEDDING FROM GILTS TO THEIR PROGENY IN SEVEN MHYO ENDEMIC PIGGERSIES IN AUSTRALIA
Ruel Pagoto1, Hugo Dunlop2, Trish Holyoake1, Bernie Gleeson1, Tom Harrison2, Mark Eastaugh1, Tony Fahy3
1 Boehringer Ingelheim Animal Health - Australia
2 Apiam Animal Health
3 Holyoake Veterinary Consulting
4 SunPork Solutions
5 Arrow Animal Health Advisory

BBD-OP-03
PREVALENCE OF POST-WEANING DIARRHOEA IN DANISH HERDS NOT USING MEDICINAL ZINC AND ANTIMICROBIAL BATCH TREATMENT AT WEANING
Malene Kjelin Morsing1, Ken Steen Pedersen2, Inge Larsen1, Nicolai Rosager Weber1, Jens Peter Nielsen1
1 Department of Veterinary and Animal Sciences, University of Copenhagen, Grennegårdsvej 2, 1870 Frederiksberg C, Denmark
2 Ø-vet A/S, Køberupvej 33, 4700 Næstved, Denmark
3 SEGES livestock Innovation, Axeltorv 3, 1609 Copenhagen V, Denmark
THURSDAY 23 MAY 2019

BBD-OP-04
OUTBREAK OF “NEW” NEONATAL DIARRHEA IN A NORWEGIAN SWINE HERD - A CASE REPORT
Helene Wisløff1, Bjarne Bergsje2,3, Marianne Gilhuus1, Stine Margrethe Gulliksen1
1 Norwegian Veterinary Institute
2 Animalia
3 Norwegian Pig Health Service

BBD-OP-05
DEVELOPMENT OF A STREPTOCOCCUS SUIS SEROTYPE 9 ANIMAL MODEL – DOSE FINDING STUDY
Jobke van Hout1, Erik van Engelen1, Manon Houben1, Karin Junker1, Ton Jacobs2
1 GD Animal Health, Deventer, The Netherlands
2 MSD Animal Health, Boxmeer, The Netherlands

BBD-OP-06
ASSESSMENT OF THE SALMONELLA STATUS IN 118 FARMS IN GERMANY FROM JANUARY 2015 TO JULY 2018
Kathrin Lillie-Jaschniski1, Judith Rohde1, Nicolas Mertens1, Monika Köchling1
1 IDT Biologika GmbH, Dessau-Roßlau, Germany
2 Institute for Microbiology, University of Veterinary Medicine, Foundation, Hannover, Germany

BBD-OP-07
FIRST DESCRIPTION OF CO-INFECTION WITH BRACHYSPIRA HYODYSENTERIAE AND ENTAMOEBA POLECKI IN A FATTENING PIG WITH SEVERE DIARRHEA
Maria Cuvertoret1, Christiane Weissenbacher-Lang2, Madeleine Lunardi2, René Brunthaler2, Mònica Coma3, Herbert Weissendörfer2, Joaquim Segalès4,5
1 Servei de Diagnòstic de Patologia Veterinaria (SDPV), Departament de Sanitat i d’Anatomia Animals, Universitat Autònoma de Barcelona
2 Institute of Pathology, University of Veterinary Medicine Vienna, Vienna, Austria
3 Cooperativa Plan de Vic, Barcelona, Spain
4 Departament de Sanitat i Anatomia Animals, Universitat Autònoma de Barcelona (UAB), 08193 Bellaterra, Barcelona, Spain.
5 UAB, Centre de Recerca en Sanitat Animal (CReSA, IRITA-UAB), Campus de la Universitat Autònoma de Barcelona, 08193 Bellaterra, Barcelona, Spain.

16H20 – 16H20 PARALLEL SESSION: WELFARE AND NUTRITION
HERTZ
Chaired by Leo van Leengoed and Marco Terreni

AWN-OP-01
TAIL BITES IN FREE-RANGE BASED FINISHER PIG SYSTEMS – PREVALENCE AND RISK FACTORS.
Hanne Kongsted1, Leslie Foldager1,2, Jan Tind Sorensen1
1 Department of Animal Science, Aarhus University
2 Bioinformatics Research Centre, Aarhus University

AWN-OP-02
THE INFLUENCE OF A 16-HOUR DELAY IN SOLID FEED PROVISIONING ON THE FEED INTAKE AND PERFORMANCE OF WEANLING PIGLETS
Sam MILlet1,2, Hubert van Hees3,4, Marijke Aluwe5, Geert P.J. Janssens2, Sam De Campe-neere6, Sarah De Smet7
1 ILVO (Flanders research institute for Agriculture, Fisheries and Food)
2 Laboratory of Animal Nutrition, Ghent University, Ghent, Belgium
3 Trouw Nutrition Research and Development
4 Pig Information Center, Melle, Belgium

AWN-OP-03
DO WEANERS HAVE GASTRIC ULCERS?
Juan Miguel Peralvo Vidal1, Anni Øyan Pedersen1, Jens Peter Nielsen1, Svend Haugegaard1, Nicolai Weber2
1 University of Copenhagen
2 SEGES Pig Research Centre

16H20 – 16H40 COFFEE BREAK AND POSTER VIEWING
Coffee break: Grote zaal foyer, Plein 5 & 6, Pandora and Pandora foyer
Poster viewing: Balkon 1 and Pandora

16H40 – 18H00 PARALLEL SESSION: BACTERIAL DISEASES II
GROTE ZAAL
Chaired by Dominiek Maes and Isabel Hennig-Pauka

16H40 – 18H00 PARALLEL SESSION: MISCELLANEOUS
HERTZ
Chaired by Leo van Leengoed and Marco Terreni
MIS-OP-01
DENTAL AND PERIODONTAL DISEASE IN SOWS EUTHANISED OR FOUND DEAD ON CONVENTIONAL FINNISH FARMS
Camilla Munsterhjelm1, Eve Ala-Kurikka1, Paula Bergman1, Taina Laine2, Henna Pekkarinen3, Olli Peltoniem1, Anna Vairaos1, Mari Heinonen1
1 University of Helsinki
2 Finnish Food Safety Authority EVIRA

MIS-OP-02
NETWORK ANALYSIS OF PIGS MOVEMENTS IN ARGENTINA: BASIC REPRODUCTION RATE IN RELATION WITH FARMS BIOSECURITY
Laura Valeria Alarcón1, Pablo Ariel Cipriotti1, Mariela Monterubbianesi4, Carlos Perfumo5, Enric Mateu6, Alberto Allepuz4
1 Department of Swine Medicine, La Plata National University
2 Departament of Quantitative Methods and Information Systems, School of Agriculture, University of Buenos Aires
4 National Food Safety Service
5 Laboratory of Special Pathology, La Plata National University
6 Centre de Recerca en Sanitat Animal, Universitat Autònoma de Barcelona

MIS-OP-03
ECONOMIC IMPACT OF SWIAV OUTBREAK IN A 1000 SOW HERD
EVELYNE GAILLARD1, PAUL CREACH2, Philippe LENEVEU2, SILKE WACHECK3, Agnès JARDIN2
1 Cabinet vétérinaire de Pontrieux – Vetarmor, Rue de Briantel, 22 260 Ploëzal, France
2 IDT Biologika, 17 Rue du Sabot, 22 440 Ploufragan, France
3 IDT Biologika, Am Pharmapark, 06861 Dessau-Roßlau, Germany

MIS-OP-04
ACTIVE SURVEILLANCE OF PRRSV IN BREEDING, NURSERY AND FINISHING FARMS FROM CARCASSES
Jordi baiellas1, Elena Novell1, Vicens Tarancon1, Carles Vilalta2, Lorenzo Fraile3
1 Grup de Sanejament Porci, Lleida, Spain
2 Swine Health Monitoring Project, University of Minnesota, USA
3 University of Lleida, Lleida, Spain

NOTES

THURSDAY 23 MAY 2019

THURSDAY 23 MAY 2019

18H10 – 19H10 EAPHM ANNUAL GENERAL MEETING
HERTZ
Open for all interested delegates
08H00 REGISTRATION DESK OPENS

08H30H – 10H00 KEYNOTE SESSION: ASF IN EUROPE

GROTE ZAAL

Chaired by Alex Eggen and Rick Janssen

- ASF updates and review of applied measures; practical experiences - Philippe Houdart
- ASF political experiences - Andrea Gavinelli
- Round table discussion

10H00 – 10H30 COFFEE BREAK AND POSTER VIEWING

Coffee break: Grote Zaal foyer, Plein 5 & 6, Pandora and Pandora foyer

Poster viewing: Balkon 1 and Pandora

10H30 – 12H30 PARALLEL SESSION: IMMUNOLOGY AND VACCINOLOGY

GROTE ZAAL

Chaired by Paolo Martelli and Joaquim Segalés

IMM-OP-01

CONTAMINATION LEVEL OF SYRINGES USED TO ADMINISTER PORCINE VACCINES IN BELGIUM AND THE NETHERLANDS

Sjouke Van Poucke1, Annelies Michiels1, Denise Meijer1, Daniel Angelats2, Lorena Nodar2

1 HIPRA Benelux
2 HIPRA

IMM-OP-02

PRRS POST-VACCINAL IMMUNE RESPONSE TO MLV IN PRRS MULTIVACCINATED SOWS

Christelle FABLET1, Patricia RENSON1,2, Florent EONO1, Sophie MAHE1, Eric EVENO1, Mireille LE DIMNA1, Nicolas ROSE1, Olivier BOURREY1

1 Anses, Laboratoire de Ploufragan, France
2 IFIP, France
IMM-OP-03
EFFECT OF EARLY PRRSV (PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME VIRUS) VACCINATION ON PIG HEALTH AND PERFORMANCE: THE EARLIER THE BETTER?
Michele Drigo1, Giovanni Franzo1, Claudia Maria Tucciaron1e, Andrea Manfredda2, Paola Zanardelli1, Fabrizio Solari Basano1, Roberto Nazzari1
1 Department of Animal Medicine, Production and Health (MAPS), University of Padua, Viale dell’Università 16, 35020 Legnaro (PD), Italy
2 Zoets Italia S.r.l., Via Andrea Doria, 41M, 00192, Roma, Italy
3 Arcoblu s.r.l., Via Myles 5, 20133 Milano, Italy

IMM-OP-04
HUMORAL AND CELLULAR IMMUNE RESPONSES AFTER ADMINISTRATION OF INNOVATIVE MYCOPLASMA HYOPNEUMONIAE BACTERINS IN PIGS
Anneleen Matthijs1, Gaël Auray2, Dominiek Maes3, Christophe Barnier-Quer3, Virginie Jakob1, Filip Boyen1, Annelies Michiels1, Freddy Haesebrouck1, Artur Summerfield2
1 Faculty of Veterinary Medicine, Ghent University, Belgium
2 Institute of Virology and Immunology, Switzerland
3 Department of Biochemistry, University of Lausanne, Switzerland

IMM-OP-05
COLOSTRUM IMMUNE TRANSFER EVALUATION IN PIGS BY USING FLU HI TEST AT 3 WEEKS OF AGE
Philippe LENEVEU1, Benoît LAUNAY2, Agnès JARDIN3, Paul CREACH3, Verena SCHÜLER1, Stefan PESCH1, Mily LEBLANC-MARIDOR3, Catherine BELLOC2
1 IDT Biologika, 17 Rue du Sabot, 22 440 Ploufragan, France
2 BIOEPAR, INRA, Oniris, Université Bretagne Loire, 44 307 Nantes, France
3 IDT Biologika GmbH

IMM-OP-06
ASSESSMENT OF THE REPLICACTION OF PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME MODIFIED LIVE VIRUS ATTENUATED VACCINES IN PORCINE ALVEOLAR MACROPHAGES
Monica Balasch1, Lucas Taylor1, Jay Calvert1
1 Zoetis
REP-OP-06
PRE-FARROWING SUPPLEMENT THROUGH DRINKING WATER REDUCES STILL-BIRTH
Pieter Langendijk1, Jac Bergman1, Marleen Fleuren1
1 Trouw Nutrition R&D

ięć 12H30 – 13H00 CLOSING CEREMONY/ESPHM 2020 IN BERN
iev GROTE ZAAL
SOLVE YOUR FARM’S CHALLENGES WITH TROUW NUTRITION’S FEED, FARM AND HEALTH MANAGEMENT APPROACH

THE AUDIT AT YOUR FINGER TIP

THE BIOSECURITY APP

Vet’Touch Safe

E-mail
Password
Remember me
I agree with general conditions of use
Login

Use activation code
LIST OF POSTERS

BACTERIAL DISEASES

**BBD-PP-01**
OPTIMIZATION OF ANTIMICROBIAL TREATMENTS USING PHARMACODYNAMIC PARAMETERS FOR SWINE RESPIRATORY PATHOGENS UNDER FIELD CONDITIONS
Lorenzo Fraile¹, Anna Vilaro², Elena Novell², Jordi Balielles², Vicenç Tarancón¹
¹ University of Lleida
² Grup de Sanejament Porcí (GSP)

**BBD-PP-02**
REDUCTION OF NASAL LESIONS AND PRODUCTIVE LOSSES AFTER VACCINATION AGAINST NON-PROGRESSIVE ATROPHIC RHINITIS
Almudena Sánchez Matamoros⁵, Oriol Boix Mas⁵, Joan Molist Badiola⁵, Aleg Martos Raich⁵
⁵ HIPRA

**BBD-PP-03**
STUDY OF ANTIBIOTIC RESISTANCE GENES AND VIRULENCE FACTORS IN PASTEURELLA MULTOCIDA STRAINS ISOLATED IN SPAIN
Maximo Petrocchi¹, César B. Gutiérrez Martín¹, Juan Ignacio Méndez Hernández¹, Elias F. Rodríguez Ferré¹, Sonia Martinez Martínez¹
¹ University of León

**BBD-PP-04**
ERADICATION OF TIAMULIN-RESISTANT SWINE DYSENTERY IN A 500 SOW HERD SELLING GROWERS TO FIVE HERDS
Per Wallgren¹,², Benedicta Molander³, Carl-Johan Ehlorsson¹
¹ National Veterinary Institute, SVA, Uppsala, Sweden
² Dept of Clinical Sciences, Sw Univ Agri Sci, Uppsala, Sweden
³ Farm & Animal Health, Staffanstorp, Sweden

**BBD-PP-05**
COMPARISON OF THE EFFICACY BETWEEN A ONE SHOT VACCINE AND A TWO-SHOT VACCINE AGAINST MYCOPLASMA HYOPNEUMONIAE ON THE RESPIRATORY DISORDERS AND THE GROWTH PERFORMANCES IN A FIELD TRIAL IN FRANCE.
Dominique Marchand¹, Alexis Nalovic¹, Nathalie Capdevielle³, Sophie Brillard³
¹ RESEAU CRISTAL 16 bd des pinèdes 35000 Vitré
³ CEVA SANTÉ ANIMALE 10 Avenue de la Ballastière 35101 LBOURNE CEDEX FRANCE

**BBD-PP-06**
FIELD STUDY COMPARING AVILOXIN® PREMIX WITH DENAGARD 80% IN BRAZILIAN PIGS NATURALLY INFECTED WITH MYCOPLASMA HYOPNEUMONIAE AND LAWSONIA INTRACELLULARIS.
Ronie W Pinheiro¹, Bruno Zinato Carraro¹, Jose Antonio Caon Ferreira², Jordi Mora³
¹ Integrall Soluções em Produção Animal Ltda. Rua Tenente Bino, 22 /303. Patos de Minas, MG. Brazil;
² ECO Animal Health Ltd, Southgate, London, UK
³ ECO Animal Health Ltd, Southgate, London, UK

**BBD-PP-07**
EVALUATION OF THE EFFICACY OF A PRE-FARROWING TREATMENT WITH AVILOXIN® ORAL POWDER TO PREVENT VERTICAL TRANSMISSION OF MYCOPLASMA HYOPNEUMONIAE.
Jose Antonio Pecero¹, Carlos Lasa¹, Josep Homedes², Jordi Mora³, Francisco Javier Gomez³
¹ NUGEST, Nutrición y Gestión S.L
² ECUPHAR Veterinaria S.L.U
³ ECO Animal Health Ltd, Southgate, London, UK
LIST OF POSTERS

BBD-PP-23
PREVALENCE AND GENOMIC CHARACTERISTICS OF Erysipelothrix rhusiopathiae IN HEALTHY SWEDISH PIGS
Mate Zoric1, Helena Eriksson1, Per Wallgren1, Robert Söderlund1
1 National Veterinary Institute, SE-75189 Uppsala, Sweden

BBD-PP-24
SUSCEPTIBILITY OF SRD PATHOGENS COLLECTED IN ITALY TO GAMITHROMYCIN AND OTHER ANTI-MICROBIAL SUBSTANCES
Giorgio Leotti1, Andrea Luppi1, Carlo Rosignoli2, Marianna Merenda2, Denis Vio3, Martina Ustolin3, Michele Dottori2
1 Boehringer Ingelheim Animal Health Italy
2 Izoler, Italy
3 IZS Veneto, Italy

BBD-PP-25
DEVELOPMENT ASSESSMENT OF CRANIOVENTRAL CONSOLIDATION LESIONS IN LUNGS OF PIGS EXPERIMENTALLY INFECTED WITH MYCOPLASMA HYOPNEUMONIAE STRAIN 232
Henrique Meiroz de Souza Almeida1, Marina Lopes Mechler-Dreibi1, Karina Sonálio1, Gabriel Yuri Storino1, Maria Eugênia Silveira Ferraz2, Igor Renan Honorato Gatto3, Marcela Manuca Ferreira1, Luís Guilherme de Oliveira1
1 São Paulo State University (Unesp), School of Agricultural and Veterinarian Sciences, Jaboticabal, São Paulo, Brazil

BBD-PP-26
MYCOPLASMA HYOPNEUMONIAE STRAIN GENOTYPING USING SANGER SEQUENCING OF FOUR OR TWO LOCI
Laura Garza1, Joaquim Segalés1, Virginia Aragon1, Florencia Correa-Fiz1, Marta Carmona2, Roman Krejci1, Marina Sibila1
1 IRTA, Centre de Recerca en Sanitat Animal (CReSA, IRTA-UAB), Campus de la Universitat Autònoma de Barcelona, 08193 Bellaterra, Spain
2 CEVA Salud Animal, Avenida Diagonal, 609-615, 9ª planta, Barcelona, Spain

BBD-PP-27
DETECTION OF MYCOPLASMA HYOPNEUMONIAE BY RT-PCR IN ENVIRONMENTAL SAMPLES
Laura Garza1, Carles Vilalta2, Maria Pieters2
1 IRTA, Centre de Recerca en Sanitat Animal (CReSA, IRTA-UAB), Campus de la Universitat Autònoma de Barcelona, 08193 Bellaterra, Spain
2 Department of Veterinary Population Medicine, College of Veterinary Medicine, University of Minnesota, St. Paul, MN, United States.

BBD-PP-28
TREATMENT OF CLINICAL BRACHYSPIRA HYODYSENTERIAE INFECTIONS WITH CHELATED ZINC IN A PIG INFECTION MODEL AND UNDER FIELD CONDITIONS,
Gerwyn Lammers1, Robbert van Berkel1, Daisy Roijackers1, Peter van der Wolf2, Henriette Brouwer-Middlestee1, Karin Junker1, Jobke van Hout1
1 Intracare BV
2 GD Animal Health

BBD-PP-29
COMPARISON OF LUNG LESIONS AT SLAUGHTERHOUSE USING DIFFERENT VACCINES PROTOCOLS FOR MYCOPLASMA HYOPNEUMONIAE
William Costa1, Juliana Calveyra2, Roman Krejci3
1 Ceva Animal Health Brazil
2 Ceva Animal Health Latin America
3 Ceva Animal Health France

BBD-PP-30
QUESTIONABLE DIAGNOSTIC VALUE OF CLOSTRIUM DIFFICILE TOXIN DETECTION IN NEW-BORN PIGLETS
Anna Aspax1, Sofia Lindström1, Magdalena Jacobson1, Jenny Larsson1
1 Swedish University of Agricultural Sciences
2 SVA, Uppsala, Sweden
3 Medical Products Agency, Uppsala, Sweden

BBD-PP-31
VARIATIONS IN THE ASSOCIATION OF NASAL MICROBIOTA WITH VIRULENT AND NON-VIRULENT STRAINS OF HAEMOPHILUS PARASUIS IN WEANING PIGLETS
Yasser Mahmmod1,2, Florencia Correa-Fiz1, Virginia Aragon1
1 IRTA, Centre de Recerca en Sanitat Animal (CReSA, IRTA-UAB), Campus de la Universitat Autònoma de Barcelona, 08193 Bellaterra, Spain
2 Universitat Autònoma de Barcelona, 08193-Bellaterra, Cerdanyola del Vallés, Barcelona, Spain

BBD-PP-32
POSSIBLE ASSOCIATION BETWEEN THE USE OF ZINC OXIDE ON PRE-STARTER FEED AND VERO-CHECK RESULTS IN EDEMA DISEASE CLINICAL FARMS.
Irene Galé Ansó1
1 HIPRA

BBD-PP-33
THE EFFECT OF TWO DIFFERENT COMBINATIONS OF VACCINES AGAINST MYCOPLASMA HYOPNEUMONIAE AND ACTINOBACILLUS PLEUROPNEUMONIAE IN PIGS’ LUNG HEALTH AND PRODUCTION PARAMETERS
Angeliki Katsafadou1, Lisandros Kalogeropoulos1, Aristotelis Nanos2, Roman Krejci3, Marina Lisgara1
1 Ceva Hellas, Athens, Greece
2 Evia farm, Kymi, Greece
3 Ceva, Libourne, France

BBD-PP-34
CURRENT SITUATION OF ACTINOBACILLUS PLEUROPNEUMONIA IN SPAIN ACCORDING TO LUNG LESIONS SCORED AT SLAUGHTERHOUSE USING THE CEVA LUNG PROGRAM (CLP) METHODOLOGY.
Pablo Del Carmen1, Mayte Lasierra1, Marta Carmona1, Sonia Cárceles1, Salvador Oliver-Ferrando1, David Espigares1
1 Ceva Salud Animal, Barcelona, Spain

BBD-PP-35
ERADICATION PROGRAM FOR PROGRESSIVE ATROPHIC RHINITIS (PAR) IN A SPANISH FARM
Marcial Marcos1, Jiménez Marta1, Rut Menjón1, Javi Fernández2, Quirolo 2
1 MSD Animal Health
2 AGROCESA S.A.

BBD-PP-36
ASSESSMENT OF EP-LIKE LESIONS IN SLAUGHTERED PIGS FROM FARMS WITH DIFFERENT MYCOPLASMA HYOPNEUMONIAE VACCINE PROGRAMS.
Mayte Lasierra1, Pablo Del Carmen1, Marta Carmona1, Sonia Cárceles1, Salvador Oliver-Ferrando1, David Espigares1
1 Ceva Salud Animal, Barcelona, Spain

BBD-PP-37
POSITIVE EFFECTS OF VACCINATION AGAINST ACTINOBACILLUS PLEUROPNEUMONIA (AP) AND OPTIMISED CO-INFECTION VACCINATION MEASURED ON AP RELATED LESIONS.
Eduardo Velazquez1, Christina Gale1
1 Ceva UK
HHM-PP-01
INFLUENCE OF TWO DIFFERENT AMOUNTS OF IRON INJECTIONS ON THE HEMOGLOBIN CONCENTRATION IN BLOOD IN PIGS
Gerben Hoornenborg1
1 Vet-Team ApS Holstebro, Denmark

HHM-PP-02
IMPROVED FEED CONVERSION RATIO IN FINISHERS BY VACCINATION AGAINST PCV2
Tine Frandsen1, Hasse Poulsen1
1 Danvet K/S

HHM-PP-03
ELIMINATION OF MYCOPLASMA HYOPNEUMONIA IN A SOWHERD USING ZACTRAN® (GAMITHROMYCIN) IN A SWISS-ELIMINATION MODEL
Jens Elkjaer Bach1
1 Danvet K/S

HHM-PP-04
ANALYZING THE GROWTH ON 50 FATTENING FARMS; THE ROLE OF PIGLET GROWTH, HYGIENE AND SEROLOGICAL DISEASE STATUS.
Godfried Groenland1
1 G.J.R. Groenland

HHM-PP-05
PROBIOTIC SUPPLEMENTATION (CLOSTRIDUM BUTYRICUM) VIA DRINKING WATER AS A SALMONELLA CONTROL MEASURE
Lars Kunstmann1, Leif Meedom1, Veerle Hautekiet2, Wouter Van der Veken2
1 Huvepharma N.V., Denmark
2 Huvepharma N.V., Belgium

HHM-PP-06
EV ALUATING DIFFERENT SEROLOGICAL TESTS FOR PRE-SLAUGHTER SALMONELLA SURVEILLANCE
Lars Kunstmann1, Leif Meedom1, Veerle Hautekiet1, Wouter Van der Veken1, Gerben Hoornenborg1
1 Huvepharma N.V., Denmark
2 Huvepharma N.V., Belgium
3 Vet-Team Denmark

HHM-PP-07
CASE REPORT: PIGLET PRRS-V ACCINATION IN COMBINATION WITH PIG FLOW IMPROVEMENTS GIVE BETTER FINISHING RESULTS
Valentijn Thuring1, Martijn Steenaert2
1 Coöperatie V ARKENSARTSEN, The Netherlands
2 Boehringer Ingelheim AH Netherlands bv

HHM-PP-08
IMPROVING COMPLIANCE WITH BIOSECURITY USING GEOFENCING TECHNOLOGY
Claudia Trombani1, Frédéric Colin2, Maëliss Brunon3, Jean-Pierre Vaillancourt4
1 BREIZHPIG SCOP SAS, 01 Rue Georges Gayner, 22190 Ploérmel, France
2 ZOETIS, Bâtiment VIV A, 10 Rue Raymond David, 92240 Malakoff, France
3 EVELUP, ZA du Vern, 29400 Landivisiau, France
4 Faculté de médecine vétérinaire, Université de Montréal, 3200 Sicotte, St-Hyacinthe, Québec J2S 2M2

HHM-PP-09
IMMUNOCRT ASSAY IS A TOOL TO EVALUATE THE MANAGEMENT OF MATERNALLY DERIVED IMMUNITY IN SOW FARMS
Almudena Sanchez-Matamoros1, Massimiliano Baratelli2, Ignacio Bernal Orozco1, Antonio Vela1, Luis Sangaquir, Elena Calablier, Inma Martin Gil, Lorenzo Fraile1
1 HEFRA, Amer (Girona)
2 Thinknpig, Asesorías porcina Zaragoza
3 Universitat de Lleida, Lleida, Spain
HHM-PP-10
ETIOLOGICAL CAUSE TO PLEURITIS IN HEALTHY PIG HERDS WITH HIGH INCIDENCES OF PLEURITIS RECORDED AT SLAUGHTER
Carl-Johan Ehlorsson1, Erik Nörregård2, Per Wallgren3,4
1 Farm & Animal Health, Ängelholm, Sweden
2 Farm & Animal Health, Löderup, Sweden
3 National Veterinary Institute, SV A, Uppsala, Sweden
4 Dept of Clin Sci, Sv Univ Agri Sci, Uppsala, Sweden

HHM-PP-11
A FARM CLASSIFICATION TOOL TAKING INTO ACCOUNT THE LUNG LESIONS AND THEIR EVOLUTION WITH CEVA LUNG PROGRAM
BERTRAND MAYNARD1, NATALIE CAPDEVIELLE1, SOPHIE BRILLAND1, YOHAN PIEL2
1 CEVA SANTÉ ANIMALE 30 Avenue de la Ballastière 35101 LIBOURNE CEDEX FRANCE
2 UNIVET SANTE ELEVAGE 22600 LOUDUN

HHM-PP-12
STATISTICAL ANALYSIS OF THE CORRELATION BETWEEN THE LUNG LESIONS SCORES AND SEASONALITY USING THE CLP DATABASE
NATALIE CAPDEVIELLE1, BERTRAND MAYNARD1, SOPHIE BRILLAND1
1 CEVA SANTÉ ANIMALE 30 Avenue de la Ballastière 35101 LIBOURNE CEDEX FRANCE

HHM-PP-13
TOLUFENAMIC ACID (TOLFINE®, VETOQUINOL) INCREASES THE WEIGHT GAIN OF PIGLETS BORN FROM GILTS
Juan Manuel Albáñez1, Paul Renaud2, Érik Grandemange1, Jose Luis Pablos Hach1, Silvia Elena Buntinx1
1 Vetoquinol Mexico
2 Vetoquinol N.-A. Inc. Canada
3 Vetoquinol SA France
4 Independent Statistical Consultants
5 Departamento de Nutrición Animal y Bioquímica, Facultad de Medicina Veterinaria y Zootecnia, Universidad Nacional Autónoma de México

HHM-PP-14
BIOCHECK.EU: A RISK BASED TOOL TO QUANTIFY THE LEVEL OF BIOSECURITY
Merel Postma1, Bo Vanbeselaere1,2, Nele Caekebeke1, Moniek Ringenier1, Elise Bernaerdt1, Bert Damiaans1, Philip Joosten1, Steven Sarrazin1, Jeroen Dewulf1
1 Ghent University, Faculty of Veterinary medicine, Veterinary Epidemiology Unit
2 CID Lines, Belgium

HHM-PP-15
THE IMPACT OF VACCINATION WITH INGELVAC PROVENZA™ AGAINST IAV-S ON MORTALITY IN A KNOWN PRRS-UNSTABLE POPULATION
Cara Dykhuis Haden1, Brent Sexton1, Kellie Cicconi-Hogan1, Christa Goodell2
1 Pipestone Systems
2 Boehringer Ingelheim Vetmedica, Inc.

HHM-PP-16
ASSOCIATIONS BETWEEN ANTIMICROBIAL PRESCRIPTION PATTERNS, PURCHASES OF VACCINES AND PREVALENCE OF LESIONS FOUND AT SLAUGHTER IN DANISH SOW HERDS
Amanda Brinch Kroes1, Charlotte Sonne Kristensen1, Helle Stege2
1 University of Copenhagen
2 SEGES Pig Research Centre

HHM-PP-17
EFFECT OF VACCINATION AGAINST GNRF IN DIFFERENT PRODUCTION SYSTEMS: A PRACTICAL ALTERNATIVE TO PHYSICAL CASTRATION AND ENTIRE MALE PRODUCTION IN EUROPE
Alvaro Aldaz1, Choew Kong Mah1, Ilse Van Vlaenderen2, Barbara Poulsen Nautrup3, James Allison1
1 Zoetis, Parsippany, NJ, USA
2 CHESS, Bonheiden, Belgium
3 EAH-Czentropus, Aschen, Germany

HHM-PP-18
EVOLUTION OF MEDICATION COSTS FROM 2006-2016 FROM THE FRENCH NATIONAL TECHNICAL AND ECONOMIC DATABASE
Isabelle Corrège1, Alexandre Poissonnet1, Brigitte Badouard1, Anne Hemonic1
1 IFIP , Le Rheu, France

HHM-PP-19
EFFECT OF DIFFERENT DOSES OF FLORFENICOL FOR PREGNANT SOWS
Giovani Marco Stingelin1, Diego de Ávila Martins Braga2, Marina Lopes Mechler-Dreibi1, Luis Guilherme de Oliveira1
1 São Paulo State University (Unesp), School of Agricultural and Veterinarian Sciences, Jaboticabal, São Paulo, Brazil
2 Federal University of Viçosa – UFV, Viçosa, Minas Gerais, Brazil

HHM-PP-20
EPIDEMIOLOGY OF PRRS IN THE FILTERED SOW FARM POPULATION
Carles Vilalta1, Juan Sanhueza1, Emily Geary1, Paulo Fioravante1, Cesar Corzo2
1 Veterinary Population Medicine Department, University of Minnesota, USA

HHM-PP-21
IMPROVEMENT IN HERD HEALTH AND PRODUCTIVITY IN HERDS WITH SWINE RESPIRATORY DISEASE WITH TILMICOSIN AQUEOUS CONCENTRATE IN LACTATING SOWS
J. Mark Hammer1, Emily Beyers2, Jason Bargen1, Joseph Gooding1
1 Elanco, Greenfield (IN), USA
2 Prestage Farms, Clinton (NC) USA

HHM-PP-22
USE OF ANTIBIOTICS AT EARLY AGE CAN AFFECT THE GUT MICROBIOTA COMPOSITION AND DIVERSITY IN ONE-WEEK OLD PIGLETS
Shah Hasan1,2, Olli Peltoniemi1, Juhani Vuorenmaa2, Claudio Oliviero1
1 University of Helsinki, Finland
2 Hankkija Oy, Finland

HHM-PP-23
QUANTIFICATION OF RISK FACTORS FOR SWINE DYSENTERY
Friederike Zeeh1, Rebekka S. S. Cadetg1, Beatriz Vidondo2, Gertraud Schüpbach2, Heiko Nathues1
1 Clinic for Swine, Vetsuisse Faculty, University of Bern, Switzerland
2 Veterinary Public Health Institute, University of Bern, Switzerland

HHM-PP-24
THE IMPACT OF VACCINATION WITH INGELVAC PROVENZA™ AGAINST IAV-S ON MORTALITY IN A KNOWN PRRS-UNSTABLE POPULATION
Cara Dykhuis Haden1, Brent Sexton1, Kellie Cicconi-Hogan2, Christa Goodell2
1 Pipestone Systems
2 Boehringer Ingelheim Vetmedica, Inc.

HHM-PP-25
THE IMPACT OF VACCINATION WITH INGELVAC PROVENZA™ AGAINST IAV-S ON MORTALITY IN A KNOWN PRRS-UNSTABLE POPULATION
Cara Dykhuis Haden1, Brent Sexton1, Kellie Cicconi-Hogan2, Christa Goodell2
1 Pipestone Systems
2 Boehringer Ingelheim Vetmedica, Inc.
<table>
<thead>
<tr>
<th>Poster Number</th>
<th>Title</th>
<th>Authors</th>
<th>Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHM-PP-26</td>
<td>Raising pigs without antibiotics - A Cohorte study</td>
<td>Julie Longvaag, Inge Larsen, Charlotte Amblin, Jens Peter Nielsen</td>
<td>1 Department of Veterinary and Animal Sciences, Faculty of Health and Medical Sciences, University of Copenhagen, Denmark</td>
</tr>
<tr>
<td>HHM-PP-27</td>
<td>Gastro-ULCERS IN SOWS IN DENMARK</td>
<td>Lotta Tofting, Charlotte Sonne Kristensen</td>
<td>1 SEGES Pig Research Centre</td>
</tr>
<tr>
<td>HHM-PP-28</td>
<td>Evaluation of parity as a delaying factor to reach PRRSV stability in sow farms</td>
<td>Juan Sanhueza, Cesar Corzo, Carlos Villa</td>
<td>1 Veterinary Population Medicine Department, University of Minnesota, USA</td>
</tr>
<tr>
<td>HHM-PP-29</td>
<td>Investigation of subacute edema disease in France. Sampling method and prevalence</td>
<td>Philippe Leneuve, Julien COLLET, Jean-Luc SEVIN, Anne DURAND, Thierry SOLIGNAC, Agnès JARDIN, Paul CREACHT, Pierre-Yves MOALIC, Verena SCHULER</td>
<td>1 IDT Biologika, 17 Rue du Sabot, 22 440 Ploufragan, France; 2 Socavet, 75 bis boulevard Penthièvre, 22 600 Lourdau, France; 3 Trikalia, 7 rue de la Roberdière, CS 56547, 35 065 Rennes Cedex, France; 4 Labofarm, 4 Rue Théodore Betrel, BP 351, 22 600 Lourdau, France; 5 IDT-Biologika GmbH</td>
</tr>
<tr>
<td>HHM-PP-30</td>
<td>Investigation of subacute edema disease in France. Impact on Swine performance</td>
<td>Philippe Leneuve, Julien COLLET, Jean-Luc SEVIN, Anne DURAND, Thierry SOLIGNAC, Agnès JARDIN, Paul CREACHT, Pierre-Yves MOALIC, Verena SCHULER</td>
<td>1 IDT Biologika, 17 Rue du Sabot, 22 440 Ploufragan, France; 2 Socavet, 75 bis boulevard Penthièvre, 22 600 Lourdau, France; 3 Trikalia, 7 rue de la Roberdière, CS 56547, 35 065 Rennes Cedex, France; 4 Labofarm, 4 Rue Théodore Betrel, BP 351, 22 600 Lourdau, France; 5 IDT-Biologika GmbH</td>
</tr>
<tr>
<td>HHM-PP-31</td>
<td>Environmental, Performance, Health- and Welfare-related parameters in pig barns with natural and mechanical ventilation</td>
<td>Ilias Chantziaras, Tommy Van Limbergen, Dimitri De Meyer, Carlos Pineiro, Marijln Klintenberg, Ilias Kyriazitis, Dimitri Klaes</td>
<td>1 Ghent University, Faculty of Veterinary medicine, Porcine Health Management Unit; 2 Pehestat bvba; 3 Vedanko bvba; 4 Pig Champ Pro Europa S.L; 5 Agriculture, school of natural and environmental sciences, Newcastle University</td>
</tr>
<tr>
<td>HHM-PP-32</td>
<td>Detection with thermographic degree app of vaginal temperature variations during weaning to service interval (WTSI)</td>
<td>Paula Sanchez, Guillermo Ramis</td>
<td>1 Agropro. Torres de Cotillas, Murcia, Spain; 2 Departamento Producción Animal, Facultad de Veterinaria, Universidad de Murcia, Spain; 3 Instituto Murciano de Investigación Bioanitaria (IMIB), Murcia</td>
</tr>
<tr>
<td>HHM-PP-33</td>
<td>The Influence of a respiratory disease in pigs of the same age but different weights on the development of backfat thickness and M. longissimus dorsi diameter</td>
<td>Bernd Beckers, Ute Jörbling, Sandra Schnier, Christian Vischer</td>
<td>1 University of Veterinary Medicine Hannover, Foundation</td>
</tr>
<tr>
<td>HHM-PP-34</td>
<td>PORCPROTOCT BY IFIP: AN ASSESSMENT OF THE FARM BIOSECURITY LEVEL ON-LINE</td>
<td>Isabelle Correge, IFIP Le Rheu, France</td>
<td>1 IFIP, Le Rheu, France</td>
</tr>
<tr>
<td>HHM-PP-35</td>
<td>Impact of vitality on piglet survival chances</td>
<td>Jan Jourquin, Joaquín Morales, Kodore Camara</td>
<td>1 ELANCO, Antwerpen, BELGIUM; 2 PigCHAMP Pro Europa, Segóvia, SPAIN; 3 ELANCO, Greenfield IND, USA</td>
</tr>
<tr>
<td>HHM-PP-36</td>
<td>Healthy climate: Ammonia, CO2, Relative humidity and endotoxins in Dutch pigfarms</td>
<td>Josine Gelauf, Jan van Schip, Bas Kolpa, Wikke Kuller</td>
<td>1 University Farm Animal Practice, Harmelen, The Netherlands; 2 Utrecht University, Faculty of Veterinary Medicine, The Netherlands</td>
</tr>
<tr>
<td>HHM-PP-37</td>
<td>Lung lesions evaluation of swines in Brazil using the CEVA Lung program</td>
<td>William Costa, Mauro Souza, Cristian Postal, Cinzia Sartori, Juliana Calveyra, Roman Krejci</td>
<td>1 Ceva Animal Health Brazil; 2 Ceva Animal Health Latin America; 3 Ceva Animal Health France</td>
</tr>
<tr>
<td>HHM-PP-38</td>
<td>Approaching IAV-5 control with a new unique tool</td>
<td>Jana Morgan, Enrique Mendacca, Erin Lowe, Kellie Cicioni-Hogan, Christa Goodell; Beehringer Ingelheim Vetmedica, Inc.</td>
<td></td>
</tr>
<tr>
<td>HHM-PP-39</td>
<td>Field experiences on weaning without high doses of Zinc oxide and antibiotics</td>
<td>Nicolai Weber, Paul Baekbo, Tina Soerensen</td>
<td>1 SEGES Danish Pig Research Centre</td>
</tr>
<tr>
<td>HHM-PP-40</td>
<td>Adaptation and validation of a salmonella elisa for the detection of antibodies in oral fluid samples from pigs</td>
<td>Christopher Erdmann, Astrid Tschentscher, Sabine Schütze, Jürgen Harlizius, Katrin Stratthagen-Minder</td>
<td>1 IVD Innovative Veterinary Diagnostics (IVD GmbH); 2 Landwirtschaftskammer Nordrhein-Westfalen</td>
</tr>
<tr>
<td>HHM-PP-41</td>
<td>Development of a practical protocol for colostrum intake evaluation in commercial farms</td>
<td>Philippe Leneuve, Benoit LAUNAY, Agnès JARDIN, Paul CREACHT, Verena SCHULER, Anne LEHEBEL, Mily LEBLANC-MARIDOR, Catherine BELLOC</td>
<td>1 IDT Biologika, 17 Rue du Sabot, 22 440 Ploufragan, France; 2 BIOEPAR, INRA, Oniris, Université Bretagne Loire, 44 307 Nantes, France; 3 IDT-Biologika GmbH</td>
</tr>
</tbody>
</table>
HHM-PP-42
EVALUATION OF THE EXTERNAL BIOSECURITY IN A FARM USING BIOPORTAL: CASE REPORT
Víctor Rodríguez-Vega1, Iván Hernández-Caravaca1, Sebastián Figueras1, Gloria Abella1, Eugenio Sánchez1, Antonio Callén1
1 Boehringer Ingelheim Animal Health Spain

HHM-PP-43
EPIDEMILOGICAL ANALYSIS OF THE PRRS VIRUS IN TWO FARMS IN SPAIN USING BIOPORTAL: CASE REPORT
Víctor Rodríguez-Vega1, Iván Hernández-Caravaca1, Sebastián Figueras1, Eugenio Sánchez1, Gloria Abella1, Antonio Callén1
1 Boehringer Ingelheim Animal Health Spain

HHM-PP-44
LUNG LESION SURVEY IN SLAUGHTER PIGS USING CEVA LUNG PROGRAM (CLP) IN THE NETHERLANDS
Susan Kars-Hendriksen1, Steven Van Coenen1
1 Ceva Santé Animale, Metrologielaan 6, 1130 Brussels, Belgium

HHM-PP-45
SALIVARY ANALYTIC PROFILE FOR HEALTH STATUS CHARACTERIZATION
Jorge Sánchez1, Ana Maria Monteño1, Ana Maria Gutiérrez2
1 CefuSA
2 University of Murcia

HHM-PP-46
GOOD VACCINATION PRACTICE: HOW TO INJECT GILTS IN THE PROPER WAY?
Stéphanie Dalle1, Martine Laitai1, Sjonke Van Poucke2, Annelies Michiels2
1 ULiège
2 Hipra Benelux

HHM-PP-47
ANTIBIOTIC TREATMENTS IN SWEDISH PIG HERDS AS NUMBER OF TREATED DISEASE CASES IN RELATION TO HERD PRODUCTION DATA
Håkan Clementsson Lindell1, Erik Lindahl1, Nils Lundhe1, Lena Eliasson-Selling1
1 Farm&Animal Health
2 Lund University Animal Health
3 Swedish University of Agricultural Sciences

HHM-PP-48
AVERAGE DAILY GAIN IN FINISHING HERDS INCREASED 34 G FOLLOWING PORCILIS® PCV M HYO VACCINATION
Gitte Blach Nielsen1, John Haugaard2
1 MSD Animal Health Nordic
2 MSD Animal Health Nordic

HHM-PP-49
HEMATOLOGICAL DATA OF NEONATAL PIGLETS SUBMITTED TO DIFFERENT TYPES OF DRYING AT BIRTH
Mariela Aparecida Claro Martinez1, Marina Lopes Mechler-Dreibi1, Beatriz Belloni1, Gabrieli Yuri Storino1, Marcela Manduca Ferreira1, Luis Guilherme de Oliveira1
1 São Paulo State University (Unesp), School of Agricultural and Veterinarian Sciences, Jaboticabal, São Paulo, Brazil

HHM-PP-50
EVALUATION OF ANTIMICROBIAL USE ON FRENCH PIG FARMS FROM 2010 TO 2016 THROUGH THE INAPORC PANELS
Anne HEMONIC1, Alexandre POISSONNET1, Claire CHAUVIN1
1 IFIP, Le Rheu, France
2 Arthes

HHM-PP-51
ASSESSMENT OF LUNG LESIONS IN SLAUGHTER PIGS IN BELGIUM IN 2017-2018, SCORED WITH THE CEVA LUNG PROGRAM
Eva De Jonghe1, Peggy De Backer1, Steven Van Coenen1
1 Ceva Santé Animale, Metrologielaan 6, 1130 Brussels, Belgium

HHM-PP-52
PREVALENCE AND SEVERITY OF ENZOOTIC PNEUMONIA AND PLEUROPNEUMONIA ON CZECH PIG FARMS BASED ON LUNG LESION SCORING IN 2018
ROMAN KREJCI1, Jonas Vanhara2, Daniel Sperling1
1 CEVA SANTÉ ANIMALE 10 Avenue de la Ballastière 35101 LIBOURNE CEDEX FRANCE
2 Ceva, Czech Rep
3 Ceva, France

HHM-PP-53
RESULTS OF LUNG LESION SCORING IN EUROPEAN COUNTRIES IN 2018
ROMAN KREJCI1, Philippe Mazerolles2
1 CEVA SANTÉ ANIMALE 10 Avenue de la Ballastière 35101 LIBOURNE CEDEX FRANCE
2 Ceva, France

HHM-PP-54
INFLUENZA STABILIZATION OF A COMMERCIAL SOW FARM USING HERD CLOSURE AND LAIV VACCINATION OF GILTS AND GROWING PIGS
Chris Sievers1, Jana Morgan2, Kellie Cicconi-Hogan2, Christa Goodell2
1 Swine Vet Center
2 Boehringer Ingelheim Vetmedica, Inc.

HHM-PP-55
EFFECT OF INTERNAL PERSONNEL MOVEMENTS IN SWINE PRODUCTION PARAMETERS
Andreia Arruda1, Nicholas Black1, Carlos Pineiro2
1 The Ohio State University
2 PigCHAMP Pro Europa SL

HHM-PP-56
ONLINE MONITOR OF PIG HEALTH IN THE NETHERLANDS: BENEFITS AND CONCERNS
Theo Geudeke1, Manon Houben1, Maaike Gonggrijp1
1 GD Animal Health, Deventer, The Netherlands

HHM-PP-57
THE USE OF DANBRED RESPIG-SPOTFIRE SYSTEM FOR MONITOR HEALTH STATUS AND HEALTH DECISIONS
Victor Geurts1, Luuk Kaalberg2
1 MSD-AH Nederland, Bammer, The Netherlands
2 Danbred BV, St. Oedenrode, The Netherlands

HHM-PP-58
BUSERELIN-TREATMENT OF GILTS/SOWS COMBINED WITH FTI REDUCED WEANING-TO-FARROWING INTERVAL
Michael Agerley1, Gitte Blach Nielsen2
1 Swinevet
2 Boehringer Ingelheim Vetmedica, Inc.

HHM-PP-59
EVOLUTION OF ANTIMICROBIAL USE ON FRENCH PIG FARMS FROM 2010 TO 2016 THROUGH THE INAPORC PANELS
Victor Guerri1, Luck Kalberg2
1 MSD-AH Nederland, Bammer, The Netherlands
2 Danbred BV, St. Oedenrode, The Netherlands
HHM-PP-60
PIG HEALTH LEARNING NETWORK – A CONTINUOUS PROCESS AIMING TO IMPROVE THE HYGIENE LEVEL ON FARMS
Hendrik Nienhoff1, Ines Spekermeier1, Heiko Plate1, Stephan Welp1, Lothar Kreienbrock3, Imke Traulsen4, Assem Oubary5, Hubert Gerhardy6
1 Swine Health Service, Chamber of Agriculture Lower Saxony
2 VoF GmbH, Ulzen
3 Department of Biometry, Epidemiology and Information Processing WHV Collaborating Centre for Research and Training for Health at the Human-Animal-Environment Interface University of Veterinary Medicine Hannover
4 Livestock Systems, Department of Animal Science, Georg-August-Universität Göttingen
5 Institute of Production Systems and Logistics, Leibniz Universität Hannover
6 MSG, Garbsen
HHM-PP-61
EVALUATION OF THE EFFECT OF A COMBINED M. HYOPNEUMONIAE AND PCV2 VACCINE ON TECHNICAL PERFORMANCE AND ENZOOTIC PNEUMONIA LESIONS IN SLAUGHTERHOUSE.
Anne Staadegaard-Huijbers1, Anke Verhaegen2, Tom Meyns3
1 DAC Zuidoost, Deurne, The Netherlands
2 Zoetis B.V., Capelle ad IJssel, The Netherlands.
3 ZOETIS Benelux, Mercuriusstraat 20, 1930 Zaventem, Belgium
HHM-PP-62
ORAL VACCINATION AGAINST Lawsonia intracellularis: A COST-EFFECTIVE ALTERNATIVE TO IMPROVE TECHNICAL AND ECONOMIC PARAMETERS IN A SPANISH FARM
Rafael Hervás Simón1
1 Nutrofar, S.L., Spain
HHM-PP-63
LACK OF DOCUMENTATION IN NATURAL MATING SYSTEMS CAN BE THE CAUSE OF THE OCCURRENCE OF THROMBOCYTOPENIC PURPURA
Sara Joller1, Anna Letko2, Cord Drögemüller2, Olivia Richard3, Heiko Nathues1, Alexander Grahofer1
1 Clinic for Swine, Vetsuisse Faculty, University of Bern, Switzerland
2 Institute of Genetics, Vetsuisse Faculty, University of Bern, Switzerland
3 Institute of Animal Pathology, Vetsuisse Faculty, University of Bern, Switzerland
HHM-PP-64
EFFECT OF POSITIVE HANDLING OF SOWS ON LITTER PERFORMANCE AND PRE-WEANING MORTALITY
Dimitri De Meyer1, Arthi Amalraj2, Tommy Van Limbergen2, Ilias Chantziaras3, Martin Fockedey1, Ilias Kyriazakis4, Dominiek Maes3
1 Vedanko BVBA Keukelstraat 66a, 8750 Wingene, Belgium
2 Unit of Porcine Health Management, Faculty of Veterinary Medicine, Ghent University, Belgium
3 Ghent University, Faculty of Veterinary medicine, Porcine Health Management Unit
4 Agriculture, school of natural and environmental sciences, Newcastle University
HHM-PP-65
MICROCLIMATIC MEASUREMENTS AS A TOOL FOR PRDC MANAGEMENT - A FIELD STUDY
Peter Kais1, István Makkai1, László Bíró1,2,3, László Ösvári1
1 MSD AH CEPI Swine Business Unit - HUNGARY
2 Semmel University Veterinary School
3 Hungarian Pig Health Management Association
4 University of Veterinary Medicine, Budapest

68

69
HHM-PP-72
INSTALLATION OF A DIGITAL BIOSECURITY SYSTEM ON HUNGARIAN SWINE FARMS
Csaba Tóth1, László Búza1,4, László Ózsvári1
1 University of Veterinary Medicine, Budapest
2 MSD AH CERG Swine Business Unit – HUNGARY
3 Szent István University Doctoral School
4 Hungarian Pig Health Management Association

HHM-PP-73
ENVIRONMENTAL CONDITIONS ON HUNGARIAN PIG FARMS
László Búza1,4, László Ózsvári1
1 University of Veterinary Medicine, Budapest
2 MSD AH CERG Swine Business Unit – HUNGARY
3 Szent István University Doctoral School
4 Hungarian Pig Health Management Association

HHM-PP-74
ELIMINATION OF M. HYOPNEUMONIAE IN A 1700 AN SOW NUCLEUS/MULTIPLIER FEEDER PIG FARM AND GILT FINISHING UNIT
J. Mark Hamme1, Richard Conger2, Frederic Vangaerwege3
1 Elanco, Greenfield (IN), USA
2 River Bend Swine Consulting, Goldsboro (NC) USA
3 Elanco, Antwerp, Belgium

HHM-PP-75
SURVEY ON MAJOR PRODUCTION PARAMETERS, PRDC STATUS AND VACCINATION PROTOCOLS ON PIG FATTENING FARMS
Roland Simpson1, László Búza2,3,4,1, László Ózsvári1
1 University of Veterinary Medicine, Budapest
2 MSD AH CERG Swine Business Unit – HUNGARY
3 Szent István University Doctoral School
4 Hungarian Pig Health Management Association

HHM-PP-76
SWINE DISEASE REPORTING SYSTEM – AN ONLINE DASHBOARD TO COMMUNICATE AGGREGATED DIAGNOSTIC LABORATORY RESULTS FROM US SWINE
Giovanni Trevisani1, Leticia C M Linhares1, Bret Crim1, Poornam Dubey1, Kent J Schwartz1, Eric Burrough1, Rodger Main1, Paul Sundberg1, Mary Thurn1, Paulo T Lages1, Cesar Corzo1, Jerry Torrisson1, Jamie Henningson1, Eric Herrman1, Greg Hanzlicek1, Ram Raghavan1, Douglas Marthaler1, Jon Geseth1, Travis Clement1, Jane Christopher-Hennings1, Daniel C L Linhares1
1 Iowa State University
2 Swine Health Information Center
3 University of Minnesota
4 Kansas State University
5 South Dakota State University

HHM-PP-77
ERADICATION OF PED VIRUS AND BRACHYSPIRA HYODYSENTERIA IN A SOW-FARM
Inger Morthorst Møller1, Jakob Korsgaard1, Ken Steen Pedersen1
1 Ø-vet a/s

HHM-PP-78
EMPTINESS BETWEEN FARROWING BATCHES AND SHEDDING OF ROTA VIRUS AND ISOSPORA SUIS IN PIGLETS
Emelie Pettersson1, Per Wallgren1,2
1 National Veterinary Institute
2 Swedish University of Agricultural Sciences

HHM-PP-79
SEROPREVALENCE OF PRRS IN SOUTHERN BELGIUM (WALLONIA)
Frédéric Smeets1, Jean-Yves Houtain1, Christian Quinet1, Martine Laitat2
1 ARSIA, Regional Association for Animal Identification and Health, Ciney, Belgium
2 University of Liège, Liège, Belgium

HHM-PP-80
ECONOMIC IMPACT OF AN INFLUENZA OUTBREAK IN REPLACEMENT GILTS OF A 700 SOW HERD AND RESPIPORC® FLU3 RETURN ON INVESTMENT
Valérie Normand1, Céline Chevance1, Arnaud Lebet2, Philippe Leneuve3, Silke Wackeck2, Agnès Jardin2
1 Porc Spective, ZA de Gohélève, Rue J et E Montgolfier, 56920 Noyal Pontivy, France
2 IDT Biologika, 17 Rue du Savoie, 22 440 Ploërmel, France
3 IDT Biologika, Am Pharmapark, 06861 Dessau-Roßlau, Germany

HHM-PP-81
HEMOGLOBIN CONCENTRATIONS IN SOWS: CORRELATION WITH THE NUMBER OF STILLBORN PIGS
Glen Almond1, Elizabeth Noblett1, Juliana Ferreira1, Chris Olsen2, Jens Peter Nielsen3
1 North Carolina State University
2 Pharmacosmos
3 University of Copenhagen

HHM-PP-82
B-ESECURE INTERNAL BIOSECURITY PROGRAM IMPROVES FARM STAFF BEHAVIOR, VIREMIA, HEALTH AND PRODUCTIVE PERFORMANCE IN PRRSV POSITIVE FARMS
Inmaculada Díaz1, Cristina Escudero2, Antonio Pérez2, Julian González2, Ricardo Peraza2, Carlos Pinheiro3, Maria Aparicio2
1 Pig CHAMP Pro Europa SL
2 Pig CHAMP Pro Europa SL
3 Pig CHAMP Pro Europa S.L.

HHM-PP-83
PRESENTATION OF A 4-YEAR MONITORING OBSERVATORY FOR 2424 BATCHES OF PIGS IN FATTENING FARMS AS A TOOL TO DEMONSTRATE THE TECHNICAL AND HEALTH BENEFITS OF ANTIBIOTIC DEMEDICATION FOR VETERINARIANS
Thierry Solignac1, Sylvie Chouët2, Jean-Luc Sevin1, Julien Collet1, Anne Durand3, Laurent Daluzeau2
1 Socavet, 75 bis boulevard Penthièvre, 22 600 Loudéac, France
2 MSD Santé Animale, 7 rue olivier de Serres, CS 17144, 49071 Beaucouzé cédex
3 Triskalia, ZI de lanrinou, CS 20100, 29206 Landerneau cédex

HHM-PP-84
IMPACT ON REPRODUCTION AND NURSERY PERFORMANCE OF THE IMPLEMENTATION OF THE B-ESECURE SYSTEM IN PRRSV POSITIVE FARMS
Inmaculada Díaz1, Cristina Escudero2, Antonio Pérez2, Julian González2, Ricardo Peraza2, Carlos Pinheiro3, Maria Aparicio2
1 Pig CHAMP Pro Europa SL
2 Pig CHAMP Pro Europa SL
3 Pig CHAMP Pro Europa S.L.

HHM-PP-85
USING A COUGH MONITOR FOR THE DIAGNOSTIC INVESTIGATION OF THE RESPIRATORY DISEASE COMPLEX (PRDC) IN A PIG FARM
Robert Nathalie1, Yohan Piel2, Roselyne Fleuray1
1 Boehringer Ingelheim
2 UNIVET SE
LIST OF POSTERS

HHM-PP-86
THE ECONOMICS OF IRON DEFICIENCY ANEMIA ON US SWINE PRODUCTION: AN ANNUAL IMPACT OF UP TO 335 MILLION US DOLLARS
Chris Olsen
1 Pharmacosmos Inc.

HHM-PP-87
EVALUATING A MYCOPLASMA HYOPNEUMONIAE (M.HYQ) CONTROL INTERVENTION: A CLINICAL EXPERIENCE.
Antonia Vela1, Rut Mengjan1, Marcial Marcos1, Marta Jimenes2, Juan Hernández2
1 Thinkingpig - Consulting
2 MSD Animal Health

HHM-PP-88
BREED-TO-WEAN FARM PERFORMANCE AND PRRSV RNA DETECTION IN PROCESSING FLUIDS OVER TIME ON A PRRS NAIVE HERD VACCINATED WITH MLV VACCINE
Clayton Johnson1, Giovani de Cezaro1, Daniel Linhares2
1 Carthage Veterinary Service
2 Iowa State University
3 Iowa State University, Ames (IA), USA

HHM-PP-89
NITRATE POISONING IN WEANED PIGLETS
Tineke van de Voordouw1, Rutger Jansen1
1 De Varkenspraktijk
2 Boehringer Ingelheim AH NL

HHM-PP-90
THE ADKAR® CHANGE MANAGEMENT MODEL AS TOOL FOR REDUCING ANTIMICROBIAL USE BY PIG FARMERS.
Maarten Hoppen1, Nele Caetebeel1, Angelique van den Hoogen1, Tijn J. Tobias1, J. Arjan Stegeman1, Francisca C. Velders1, Franca J. Jorquiere1, Nathalie Sreeckx1, Moniek Ringsman1, Jeroen Dewulf1, Merel Postma1
1 GD Animal Health, Deventer, The Netherlands
2 Ghent University, Faculty of Veterinary medicine, Veterinary Epidemiology Unit
3 Faculty of Veterinary Medicine, Utrecht University, the Netherlands
4 Experimental Poultry Centre, Belgium

HHM-PP-91
PROFITABILITY AND ECONOMIC IMPACT OF TOLTRAZURIL ADMINISTRATION PROTOCOL IN NATURALLY INFECTED PIGLETS IN BRAZIL
Giovani Marco Stingelin1, Marcela Cristina de Cezaro2, Raphaela Moreira Oliveira2, Reinaldo Fernandes Cooke1, Marina Lopes Mischler-Drebit2, Elisabeth Moreira De Santos Schmidt1
1 São Paulo State University (Unesp), School of Veterinary Medicine and Zootechny, Botucatu, São Paulo, Brazil
2 Eastern Oregon Agricultural Research Center, Oregon State University, 67826-A Hwy 205, Burns, OR 97720, USA

HHM-PP-92
MYCOPLASMA Suis ASSOCIATED WITH DYSGALACTIA AND ANEMIA IN A SOW HERD
Martine Lait1, Jurgen Vandebroeke2, Stephanie Dalle1, Philip Vyt3
1 University of Liège, Liège, Belgium
2 DAP Mervet, Merksplas, Belgium
3 Dialah, Behbeheh, Belgium

HHM-PP-93
A COMPARISON OF TRACHEO-BRONCHIAL SWABS (TBS) AND ORAL FLUIDS (OF) IN A LONGITUDINAL FIELDSTUDY ON A FARM WITH PRDC HISTORY SUPPORTED BY CONTINUOUS COUGH MONITORING WITH SOUND MONITOR (SOMO)
Tim van Sprang1, Frédéric Vangroenweghe2, Nico Wertensbroek3
1 Stingeland Dierenartsen
2 BE Food Animals, Elanco Animal Health Benelux
3 Boehringer Ingelheim Animal Health

HHM-PP-94
PATHOLOGICAL-ANATOMICAL FINDINGS OF THE LOCOMOTOR SYSTEM IN SOWS FOUND DEAD OR EUTHANIZED
Eve Ala-Kurikka1, Camilla Munsterhjelm2, Paula Bergman2, Taina Laine3, Henna Pekkarinen4, Olli Peltoniemi2, Anna Valros2, Mari Heinonen2,5
1 Helsinki University
2 University of Helsinki
3 Finnish Food Safety Authority Evira
4 Finnish Food Safety Authority EVIRA
5 Department of Production Animal Medicine

IMMUNOLOGY AND VACCINOLOGY

IMM-PP-01
RESULTS FROM 14 FARROW-TO-FINISH FRENCH FARMS BEFORE AND AFTER IMPLEMENTATION OF COLIPROTEC F4/F18
Bernard Fily1, Fabrice Boutin1, Vincent Burlot1, Nicolas Geffroy1, Thomas Gin1
1 Elanco

IMM-PP-02
IMPLEMENTATION OF COLIPROTEC F4/F18 AND A NEW FEED PROGRAM IN A FRENCH FARROW-TO-FINISH FARM TO CONTROL POST-WEANING DIARRHEA AND IMPROVE PERFORMANCES
Christine Meymerit1, Daniel Ferreira1, Vincent Burlot2, Thomas Gin2
1 Interface
2 Elanco

IMM-PP-03
IN-USE STABILITY OF COLIPROTEC F4/F18, A LIVE E. COLI VACCINE FOR ORAL SUSPENSION, IN WATER ACIDIFIER AT DIFFERENT PH VALUES
Cindy-Love Tremblay1, Louise Bélanger1, Danielle Tremblay1, Eric Nadeau1
1 Prevetc Microbica Inc., 3995 Casavant blvd. West, Saint-Hyacinthe, Québec, Canada

IMM-PP-04
PRRS CONTROL: A FIELD CASE REPORT OF INTRADERMAL VACCINATION WITH TWO M.HYQ AND PRRS VACCINES COMBINED
Pascal Hourcq1
1 SCOP de Vétérinaires BREIZHPIG

IMM-PP-05
DIETARY ALGAL β-(1,3)-GLUCAN, MODULATING INFLAMMATION AND CELL-MEDIATED IMMUNE RESPONSES IN PIIGLETS THROUGH THEIR MOTHER SOW
Natasja Smeets1, Valentine Van Hamme2
1 femin europa nv
<table>
<thead>
<tr>
<th>Poster ID</th>
<th>Title</th>
<th>Authors</th>
<th>Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMM-PP-20</td>
<td>SAFETY OF A NEW OCTAVALENT VACCINE AGAINST ERISIPELAS, PARVOVIRUS AND LEPTOSPIRA (PORCILIS® ERY+PARVO+LEPTO) IN GilTS AND SOWS</td>
<td>Jiménez Marta, Rut Menjón, César Lorente, Marcial Marcos</td>
<td>MSD Animal Health</td>
</tr>
<tr>
<td>IMM-PP-21</td>
<td>COMPARISON OF TWO DIFFERENT VACCINATION SCHEMES AGAINST PCV2 AND M. HYOPNEUMONIAE</td>
<td>Gloria Abella, Ivan Hernández, Sebastián Figueras, Antonio Callén, Víctor Rodríguez, Eugenio Sánchez</td>
<td>Boehringer Ingelheim Animal Health España, Spain</td>
</tr>
</tbody>
</table>
| IMM-PP-22 | EFFECTS ON ACUTE PHASE PROTEINS IN IBERIAN BREED PIGLETS OF TWO DIFFERENT CIRCOVIRUS TYPE 2 AND 2 MYCOPLASMA HYOPNEUMONIAE VACCINE PROTOCOLS | Tomás Fernández-Aguilar, Damian Escrivan, Víctor Rodríguez-Vega, Sebastián Figueras-Gourgue, Iván Hernández-Caravaca, Gloria Abella, Antonio Callén, Eugenio Sánchez-Tarifa | 1: Casa de San Pedro Sivire FARM, Spain  
2: Department of Animal and Food Science, UAB, Spain  
3: Boehringer Ingelheim España, S.A., Spain |
| IMM-PP-23 | RETURN TO BASELINE PRODUCTION AFTER A CHANGE OF VACCINATION SUBSEQUENT TO A HIGH VIBULENT PRRS VIRUS STRAIN OUTBREAK | Javier Díaz, Antonio Callén, Eugenio Sánchez, Gloria Abella, Iván Hernández-Caravaca, Sebastián Figueras, Víctor Rodríguez-Vega | Inga Food, Almendralejo, Spain  
1: Boehringer Ingelheim Animal Health España |
| IMM-PP-24 | PORCINE PLEUROPNEUMONIA CONTROL WITH COGLAPIX® VACCINATION UNDER FIELD CONDITIONS | Sonia Cárceles, Pablo Del Carmen, Mayte Lasierra, Marta Carmona, Salvador Oliver-Ferrando, Florentina del Carmen Cuestas, Sergio Celma, David Espigares | 1: Cevo Salud Animal, Barcelona, Spain  
2: Ingafood, Spain |
| IMM-PP-25 | SOWS AND PIGLETS VACCINATION AGAINST PCV2 WITH CIRCOVAC® IN A CASE OF EARLY PRRSV INFECTION | Sonia Cárceles, Florentina del Carmen Cuestas, Sergio Celma, Salvador Oliver-Ferrando, Pablo Del Carmen, Marta Carmona, Mayte Lasierra, David Espigares | 1: Cevo Salud Animal, Barcelona, Spain  
2: Ingafood, Spain |
| IMM-PP-26 | MYCOPLASMA HYOPNEUMONIAE (MHYO) SEROCONVERSION STUDY IN A LOW-LEVEL MDA FARM DUE TO A BIVALENT VACCINE COMBINING PCV2 AND MHYO | Marcial Marcos, Marta Jiménez, Rut Menjón, Rosa García Gállo, Jesús Bolo | 1: MSD Animal Health  
2: CANPORK S.A. |
| IMM-PP-27 | SAFETY OF PORCILIS® ERY+PARVO+LEPTO VACCINE AT FARM LEVEL | Marcial Marcos, Marta Jiménez, Rut Menjón, Alfredo Romero, Jose Maria Ordóñez, Javier Llamazares | MSD Animal Health  
1: PROGATECSA S.A. |
| IMM-PP-28 | EFFICACY OF PORCILIS® GLASSER IN THE CONTROL OF HAEMOPHILUS PARASUS INFECTION AT FARM LEVEL | Marcial Marcos, Marta Jiménez, Rut Menjón, Andrés de las Heras | 1: MSD Animal Health  
2: ATP (Asesoria Técnica Porcina) |
| IMM-PP-29 | SEROCONVERSION STUDY OF PORCILIS® GLASSER AT FARM LEVEL | Marcial Marcos, Marta Jiménez, Rut Menjón, Andrés de las Heras, Alfredo Romero | 1: MSD Animal Health  
2: ATP (Asesoria Técnica Porcina) |
| IMM-PP-30 | NEUTRALIZING ANTIBODIES AGAINST PRRS VIRUS IN BREEDING PIGS VACCINATED WITH THE COMBINED ADMINISTRATION OF UNISTRAIN® PRRS AND ERYSENG® PARVO | Joel Miranda, Almudena Sánchez Matamoros, Enric Mateu, Ivan Diaz Luque | 1: IFAPA  
2: Centre de Recerca en Sanitat Animal, Universitat Autónoma de Barcelona |
| IMM-PP-31 | COMPARATIVE STUDY TO EVALUATE IMMUNITY INDUCED BY ACTINOBACILLUS PLEUROPNEUMONIAE VACCINES | José López, Almudena Sánchez Matamoros, Enric Mateu, Ivan Diaz Luque | 1: HIPRA  
2: MSD Animal Health  
3: Agropecuaria Casas Nuevas  
4: Boehringer Ingelheim España, S.A.  
5: Boehringer Ingelheim Animal Health España |
| IMM-PP-32 | WEANING DID NOT AFFECT THE SEROLOGICAL RESPONSE TO INTRADERMAL PCV2 VACCINATION IN PIGLETS | Lea Rentsch, Sanna Nikunen, Gitte Blach Nielsen, Mari Heinonen, Fredéric Vangroenweghe | 1: University of Helsinki  
2: Department of Veterinary Biosciences  
3: MSD Animal Health  
4: Department of Production Animal Medicine  
5: BU Food Animals, Elanco Animal Health Benelux |
| IMM-PP-33 | HOW TO COACH THE SWINE FARMERS TO OMIT ANTIBIOTIC TREATMENT IN PIGLETS VACCINATED AGAINST POST-WEANING DIARRHEA: THE EXAMPLE OF THE FECAL SCORECARD | Frédéric Vangroenweghe | 1: BU Food Animals, Elanco Animal Health Benelux |
| IMM-PP-34 | EFFICACY OF COLIPROTEC® F4/F18 IN PIGLETS WITH POST-WEANING DIARRHEA DUE TO F18-ETEC | Mariavittoria Gibellini, Paolo Ferro | 1: Elanco Italia Spa |
| IMM-PP-35 | CHARACTERIZATION OF MACROPHAGE POPULATION OF THE THYMUS IN PIGS AFTER INFECTION WITH PRRSV STRAINS OF DIFFERENT IN VIVO VIRULENCE | Giulia Ogno, Irene Magdalena Rodríguez Gómez, Elena Canelli, Inês Ruedas Torresi, Belén Alvarez, Javier Dominguez, Paolo Borghetti, Paolo Martelli, Jaime Gómez Laguna | 1: Department of Veterinary Science, University of Parma, Strada del Taglio, 10 – 43126, Parma, Italy  
2: Department of Anatomy and Comparative Pathology, Faculty of Veterinary Medicine, University of Cordoba, Spain  
3: Department of Biotechnology, National Institute for Agricultural and Food Research and Technology (INIA), Madrid, Spain |
MIS-PP-01
ANTHELMINTIC EFFICACY OF A NEW FENBENDAZOLE NANOSUSPENSION FOR PIGS
Lieven Claerhout1, Wouter Depondt1
1 Huvepharma NV

MIS-PP-02
MICROGRANULATED PREMIXES IMPROVE SAFETY OF MEDICATED FEED BY LESS DUST CONTENT
Lieven Claerhout1, Wouter Depondt1
1 Huvepharma NV

MIS-PP-03
MICROBES ARE MORE THAN JUST PATHOGENS
Lisanne Verschuren1, Dirkjan Schokker2, Egbert Knol1, Marc Martens1, Rob Bergsma1, Mario Calus1
1 Topigs Norsvin Research BV
2 Wageningen University & Research

MIS-PP-04
NO EVIDENCE OF MASTITIS IN SOWS WITH POSTPARTUM DYSGALACTIA SYNDROME
Marianne Kaiser1, Magdalena Jacobson1, Poul Bækbo1, Jan Dahl1, Stine Jacobsen2, Yongzhi Guo2, Torben Larsen1, Pia Haubro Andersen1
1 Copenhagen University
2 Swedish University of Agricultural Sciences
3 SEGES, Danish Pig Research Centre
4 Danish Agriculture and Food Council
5 Aarhus University

MIS-PP-05
HORMONAL AND METABOLIC CHANGES IN SOWS WITH POSTPARTUM DYSGALACTIA SYNDROME
Marianne Kaiser1, Stine Jacobsen1, Pia Haubro Andersen1, Poul Bækbo1, José Joaquin Cerón1, Jan Dahl1, Damián Escribano1, Peter Kappel Theil1, Magdalena Jacobson1
1 Copenhagen University, Denmark
2 Swedish University of Agricultural Sciences, Sweden
3 SEGES Danish Pig Research Centre, Denmark
4 University of Murcia, Spain
5 Danish Agriculture and Food Council, Denmark
6 Aarhus University, Denmark

MIS-PP-06
EVALUATION OF DRINKING BEHAVIOR OF NURSERY PIGLETS TO ASSESS FEASIBILITY OF USING FEEDING BOWLS FOR ORAL ADMINISTRATION OF ILEITIS VACCINE
Rutger Jansen1, Herjan Klein Leetink2, Rita Schuttert3
1 Boehringer Ingelheim AH NL
2 ForFarmers
3 DeOosthof

MIS-PP-07
HIGH PREVALENCE OF ANEMIA IN DANISH PIGLETS AT WEANING
Inger Morthorst Møller1, Ken Steen Pedersen1
1 Ø-vet a/s

MIS-PP-08
UNUSUAL HISTOPATHOLOGICAL FEATURES OF THE TYMUS IN PORCINE PERIWEANING FAILURE-TO-THRIVE SYNDROME
Francisco José Pallares1,2, Serafín Gómez1
1 Dpto. Anatomía y Anatomía Patológica Comparada. Facultad de Veterinaria. Universidad de Murcia. Spain

MIS-PP-09
THE CAUSE OF CONGENITAL WARTS IN PIGS
Alexander Grahofer1, Anna Letko2, Irene Häfliger2, Paolo Ciaramella3, Cord Drögemüller2
1 Clinic for Swine, Vetsuisse Faculty, University of Bern, Switzerland
2 Institute of Genetics, Vetsuisse Faculty, University of Bern, Switzerland
3 University of Naples Federico II, Department of Veterinary Medicine and Animal Production Veterinary, Naples, Italy

MIS-PP-10
MORPHOMETRIC DIFFERENCES IN THE UMBILICAL CORD OF IUGR AND NORMALLY DEVELOPED PIGLETS
Charlotte Amdi1, Olga F. Nielsen1, Christian F. Hansen1, Jens Peter Nielsen1
1 Department of Veterinary and Animal Sciences, Faculty of Health and Medical Sciences, University of Copenhagen, Denmark

MIS-PP-11
REVEALING THE UNSEEN: USE OF 24 H CAMERA SURVEILLANCE DIAGNOSED SEVERE MANAGEMENT PROBLEMS AND NOT SOW HEALTH OR PARTURITION PROBLEMS
Wiktoria Koltun1, Tom Verbruggen2, Josine Gelauf1, Bas Kolpa1
1 University Farm Animal Practice, Harmelen, The Netherlands
2 Department of Animal Science, University of Guelph, Canada

MIS-PP-12
COMPARISON OF PROPOSED NATIONAL DEFINED COURSE DOSES TO PREVIOUSLY ESTABLISHED EUROPEAN COURSE DOSES FOR QUANTIFYING ANTIBIOTIC USE IN PIGS
Marie Sjölund1, Kerstin Annér2, Elin Karlsson2, Maria Lindberg2
1 National Veterinary Institute SV A
2 Farm & Animal Health
MIS-PP-14
PLASMA DISPOSITION KINETICS AND DISTRIBUTION OF TOLTRAZURIL AND ITS MAIN METABOLITE IN INTESTINAL TISSUES AND CONTENTS OF PIGLETS AFTER ORAL AND INTRAMUSCULAR ADMINISTRATIONS
Hamadi Karembe1, Reynald Magnier2, Mathieu Peyrrou Peyrrou3, Nicolas Guerra4, Jan Vasek5, Jiri Smola6, Anja Joachim7, Daniel Sperling7
1 Ceva, France
2 VFU Brno
3 Vetmeduni, Vienna

MIS-PP-15
DIAGNOSIS OF CYSTOSISPORIS SUIS OOCYSTS IN STEATORRHOEIC PIGLET SAMPLES
Anja Joachim1, Baerbel Ruthkowskii1, Daniel Sperling2
1 Vetmeduni, Vienna
2 Ceva, France

MIS-PP-16
ANALYSIS OF TONSILLAR MICROBIOME IN PRRSV VACCINATED VS. NON-VACCINATED GILTS AFTER EXPERIMENTAL INFECTION WITH TWO DIFFERENT PRRSV-1 FIELD ISOLATES
Ursula Rucziszka1, Barbara Ulrike Metzler-Zebeli2, Christian Knecht1, Lisa Reiter1, Till Rümenapf3, Andrea Ladinig1
1 University Clinic for Swine, Department for Farm Animals and Veterinary Public Health, University of Veterinary Medicine Vienna, Vienna, Austria
2 Institute of Animal Nutrition and Functional Plant Compounds, Department for Farm Animals and Veterinary Public Health, University of Veterinary Medicine Vienna, Vienna, Austria
3 Institute of Virology, Department for Pathobiology, University of Veterinary Medicine Vienna, Vienna, Austria

MIS-PP-17
FIELD EVALUATION OF HAEMOGLOBIN (HB) LEVEL AND INFLUENCING FACTORS AT WEANING ON FRENCH FARMS
Sophie Brilland1, Nathalie Capdevielle2, Paloma Suarez2, Hamadi Karembe2, Nicolas Guerra2, Daniel Sperling2
1 CEV A 10 Avenue de la Ballastière 35010 LIBOURNE CEDEX FRANCE
2 CEVA SANTE ANIMALE 10 Avenue de la Ballastière 35010 LIBOURNE CEDEX FRANCE

MIS-PP-18
THE ROLE OF EVIDENCE BASED VETERINARY MEDICINE (EBVM) IN THE DUTCH SWINE INDUSTRY: POINTS OF FRICITION AND SOLUTIONS
Victor Geurts1, Theo Geudeke2, John Vonk3
1 MSD-AH Nederland, Boxmeer, The Netherlands
2 Specialist Animal Health Service (GD), Deventer, The Netherlands
3 Chairman VGV KNMvD, Veterinary Clinic de Varkenspraktijk, Oss, The Netherlands

MIS-PP-19
FIELD EVALUATION OF HAEMOGLOBIN (HB) LEVEL AND FACTORS INFLUENCING HB STATUS IN PIGLETS AT WEANING ON NETHERLANDS FARMS
Susan Karst Hendriksen1, Paloma Suarez2, Nicolas Guerra2, Hamadi Karembe2, Daniel Sperling2
1 Ceva Santé Animale B.V., Naaldwijk, The Netherlands
2 CEVA SANTE ANIMALE 10 Avenue de la Ballastière 35010 LIBOURNE CEDEX FRANCE

MIS-PP-20
DIAGNOSIS IN ADULT PIGS 2008 TO 2018 IN ENGLAND AND WALES FROM ANALYSIS OF LABORATORY CARCASS SUBMISSIONS
Cornelia Bidwell1, Camilla Brena2, Livio Pittalis1, Edward Fullick1, Susanna Williamson1
1 Animal and Plant Health Agency
REP-PP-07
CAN HYDATID CYSTS OF MORGAGNI CAUSE INFERTILITY IN SOWS?
Alexander Grabhofer1, Gaby Hirshbrunner2
1 Clinic for Swine, Vetsuisse Faculty, University of Bern, Switzerland
2 Clinic for Ruminants, Vetsuisse Faculty, University of Bern, Switzerland

REP-PP-08
THE EFFECT OF ALTRENOSTTREATMENT ON INCIDENCE AND PREVENTION OF EARLY PARTU-RI
ON SOWS
Vazul Fulop1, Tamas Revesz2, Jana Blahova3, Daniel Spoerle4
1 Agro-Feed Ltd, Hungary
2 Ceva, Hungary
3 Department of Animal Protection, Welfare and Ecology, VFU Brno, Czech Republic
4 Ceva, France

REP-PP-09
EFFECT OF HYPOSPADIAS IN A CROSSBRED BOAR ON REPRODUCTION
Alexander Grabhofer1, Heiko Nathues1
1 Clinic for Swine, Vetsuisse Faculty, University of Bern, Switzerland

REP-PP-10
WHY DID THE FARROWING RATE DECREASE IN A HUNGARIAN SOW FARM? - A FIELD STUDY
László Búza1,2,3, Péter Máté1, István Makka1, László Öszvári1
1 MSD AH CERG Swine Business Unit - HUNGARY
2 Szent István University Doctorial School
3 Hungarian Pig Health Management Association

REP-PP-11
TRANSABDOMINAL ULTRASOUND EXAMINATION OF THE OVARIES OF CULLED SOWS TO DETECT
THE REASON OF THE CULLING - A FIELD STUDY
Peter Máté1, István Makka1, László Búza1,2,3, László Öszvári1
1 MSD AH CERG Swine Business Unit - HUNGARY
2 Szent István University Doctorial School
3 Hungarian Pig Health Management Association

REP-PP-12
INFLUENCE OF POLYPHENOLS (HYDROXYTYROSOL AND CARNOSIC ACID) SUPPLEMENTATION ON
REPRODUCTIVE PERFORMANCE OF SOWS
JUAN CANETE GONZALEZ1, PEDRO GONZALEZ ANOVER2, MARIA JOSE LOPEZ ANDREO3, GUILLERMO RAMIS VIDAL4
1 Mivit Nutrición Animal S.L. Tarragona, Spain
2 Cuarte S.A. Zaragoza, Spain
3 Molecular Biology Section. University of Murcia, Spain
4 Department of Animal Production, Faculty of Veterinary Sciences. University of Murcia, Spain.

REP-PP-13
MACHINE LEARNING CAN PREDICT WEANING TO ESTRUS INTERVAL BASED IN LACTATION INTAKE
OF SOWS
Diocleciano Gayubo1, CARLOS PINCERO1, Celia Santiago1, M Angel de Andres1, Inmaculada Díaz1, María Aparicio1
1 Pig Champ Pro Europa SL

REP-PP-14
EVOLUTION OF REPRODUCTIVE PERFORMANCE IN SPANISH FARMS IN THE LAST 10 YEARS. IMPACT
OF FARMS’ SIZE
M Ángel de Andres1, Armando Occón1, Celia Santiago1, Inmaculada Díaz1, Carlos Pincero1, María Aparicio1
1 Pig Champ Pro Europa SL

REP-PP-15
EVOLUTION OF REPRODUCTIVE PERFORMANCE IN SPANISH FARMS IN THE LAST 10 YEARS. IMPACT
OF FARMS’ PERFORMANCE (I)
M Ángel de Andres1, Armando Occón1, Celia Santiago1, Inmaculada Díaz1, Carlos Pincero1, María Aparicio1
1 Pig Champ Pro Europa SL

REP-PP-16
EVOLUTION OF REPRODUCTIVE PERFORMANCE IN SPANISH FARMS IN THE LAST 10 YEARS. IMPACT
OF FARMS’ PERFORMANCE (II)
M Ángel de Andres1, Armando Occón1, Celia Santiago1, Inmaculada Díaz1, Carlos Pincero1, María Aparicio1
1 Pig Champ Pro Europa SL

VETERINARY PUBLIC HEALTH

VPHP-PP-01
REDUCTION OF SALMONELLA SEROTITERS BY CLOSTRIDIUM BUTYRICUM IN A COMMERCIAL TRIAL
Lars Kunstmann1, Leif Meedom1, Veerle Hautekiet2, Wouter Van der Veken2, Anni Arvad Andersen3
1 Huvepharma N.V., Denmark
2 Huvepharma N.V., Belgium
3 Vet-Team Denmark

VPHP-PP-02
NO EFFECT OF A BICOIDE ON THE PREVALENCE AND AMOUNT OF LA-MRSA IN A PIG FARM
Poul Baekbo1, Helle Sommer1, Karl Pedersen2, Carmen Espinosa-Gongora2
1 SEGES Danish Pig Research Centre
2 Technical University of Denmark

VPHP-PP-03
TOWARDS ANTIBIOTIC-FREE PRODUCTION IN BELGIAN PIG HERDS THROUGH COACHING AND BIOS-
ECURITY MEASURES
Elise Bernaerdt1,2, Tommy Van Limbergen1, Karl Pedersen1, Carmen Espinosa-Gongora2
1 Ghent University, Faculty of Veterinary medicine, Veterinary Epidemiology Unit
2 Ghent University, Faculty of Veterinary medicine, Porcine Health Management Unit

VPHP-PP-04
REDDUCING ANTIMICROBIAL USE IN PORK PRODUCTION: IS IMPROVED ANIMAL HEALTH THE ANSWER?
Gertraud Schüpbach-Regula1, Myriam Harisberger2, Luis Gomes do Carmo1
1 Veterinary Public Health Institute, University of Bern, Switzerland
2 SUISAG, Division Swine Health Service, Sempach, Switzerland

VPHP-PP-05
ANTIMICROBIAL RESISTANCE IN COMMENSAL E. COLI ISOLATES RECOVERED FROM DIFFERENT
SWINE PRODUCTION SYSTEMS
Oscar Mencía-Ares1, Rubén Miranda-Hervia1, Manuel Gómez-Garcia1, Héctor Puente-Fernández1, Pedro José
Gómez de Novoa1, Ana Carvajal-Urueña1, Pedro Rubio-Nistal1
1 University of León
VPH-PP-06
CORRELATION OF NATIONAL AND INTERNATIONAL DEFINED DAILY AND COURSE DOES FOR ANTIMICROBIAL DRUG USAGE IN PIGS
Thomas Echtermann1, Cedric Muenterman1, Xaver Sidler2, Dolf Kueemrerlen1
1 Division of Swine Medicine, Department for Farm Animals, Vetsuisse Faculty, University of Zurich
2 Institute of Veterinary Pharmacology and Toxicology, Vetsuisse Faculty, University of Zurich

VPH-PP-07
FUNGI DERIVED FEED ADDITIVES BIND SALMONELLA TYPHI-MURUM AND ESCHERICHIA COLI AND INDUCE MACROPHAGE ACTIVATION.
Janneke Allart1, Petra Rouko2, Ralf Litjens3, Celina Silva4
1 Faculty of veterinary medicine, Utrecht University, Utrecht, The Netherlands
2 Trouw Nutrition R&D
3 Trouw Nutrition

VPH-PP-08
ON FARM INTERVENTIONS TO REDUCE THE USE OF ANTIMICROBIALS IN PIG FARMS, A PRACTICAL APPROACH
Manon Houben1, Claire Chauvin2, Pascal Sanders3, Angelique Van den Hoogen4
1 GD Animal Health, Deventer, The Netherlands
2 PorQ, the Netherlands
3 PorQ, The Netherlands

VPH-PP-09
ANTIBIOTIC RESISTANCE AND GENETIC PROFILE OF KLEBSIELLA PNEUMONIAE FROM CLINICALLY DISEASED PIGLETS
Johannes van Hoof1, Tom Duinhof1, Linda Peeters1, Rianne Buter1, Annet Heuvelink1, Manon Houben1
1 GD Animal Health, Deventer, The Netherlands

VIRAL DISEASES

VVD-PP-01
CASE REPORT OF TRANSMISSIBLE GASTROENTERITIS CORONA VIRUS INFECTION ASSOCIATED WITH SMALL INTESTINE AND BRAIN LESIONS
Vasileios Papatsiros1, Ioanna Stylianaki2, Georgios Papakonstantinou3, Nikolao Papadiontou3, Georgios Christodosopolou3
1 Clinic of Medicine, Faculty of Veterinary Medicine, School of Health Sciences, University of Thessaly
2 Laboratory of Pathology, School of Veterinary Medicine, Faculty of Health Sciences, Aristote University of Thessaloniki
3 Clinic of Medicine, Faculty of Veterinary Medicine, School of Health Sciences, University of Thessaly

VVD-PP-02
PREVALENCE OF PCV2 GENOTYPES IN ORAL FLUID SAMPLES ORIGINATING FROM GERMAN AND AUSTRIAN PIG FATTENING FARMS
Vojislav Cvjetkovic1, Carina Antonczyk1, Christoph Waehner1, Maxi Harzer2, Kristin Heenemann2, Dr. Antje Rucker1, Michael Sieg1, Bernd-Andreas Schwarz1, Thomas Vahlenkamp1
1 Ceva Tiergesundheit GmbH, Düsseldorf
2 Center for Infectious Diseases, Institute of Virology, Faculty of Veterinary Medicine, University of Leipzig, An den Tierkliniken 29, 04103 Leipzig, Germany
3 Vaxxinova GmbH, Leipzig

VVD-PP-03
CLINICAL AND VIRAL CHARACTERISTICS OF RECENT PRRS OUTBREAKS ON SOW FARMS IN THE NETHERLANDS
Tom Duinhof1, Jos Dortmans1, Manon Houben1
1 GD Animal Health, Deventer, The Netherlands

VVD-PP-04
A SYSTEMATIC APPROACH TO PRRS CONTROL IN 35 BREEDING HERDS IN THE NETHERLANDS
Karlien Koenders1, Eveline Willems2, Marc Martens2
1 Topigs Norsvin Nederland B.V.
2 Topigs Norsvin International B.V.

VVD-PP-05
A PHENOTYPING METHOD TO IDENTIFY PRRSV-RESILIENT SOWS IN PRRSV-INFECTED FARMS UNDER EPIDEMIC AND ENDEMIC SCENARIOS
Gloria Abella1, Elena Novell2, Vicens Tarancon2, Romi Pena1, Joan Estany1, Lorenzo Fraile1
1 University of Lleida, Lleida, Spain
2 Grup de Sanejament Porci, Lleida, Spain

VVD-PP-06
EVALUATING THE OUTCOME OF ADVANCING PIGLET VACCINATION WITH SU Vaughn® PRRS TO 8 DAYS OF AGE ON A FRENCH FARM
Benoit Boivent1, Anne-Laure Ledoux2, Francois Bled3, Elise Capron2, Françoise Per3, Frédéric Colin3
1 UNIVET SANTÉ ÉLEVAGE, rue Monge, 22600 Lourdes, France
2 ZOETIS, Bâtiment VIVA, 10, Rue Raymond David, 92240 Malakoff, France
3 BIEFARLAB, 27 chemin des peupliers, 69570 Dardilly, France

VVD-PP-07
RESULTS OF THE SEROLOGICAL INVESTIGATION OF AUJESZKY’S DISEASE AMONG SWINE IN UKRAINE.
Vitaliy Ukhovsky1, Oleksandr Romanov2, Irina Sobko3, Iryna Sobko3
1 Institute of Veterinary Medicine of National Academy of Agrarian Sciences, Kyiv, Ukraine
2 Independent expert health and welfare of pigs, Ukraine
3 Center of Veterinary Diagnostics, Kyiv, Ukraine

VVD-PP-08
INFECTION PRESSURE OF PCV2 IN 20 FRENCH FARMS AND IMPACT OF THE VACCINATION ON THE EXCRETION.
Sophie Brilland1, Nathalie Capdevielle1, Roman Krejci1, Andrea Luppi2, Coralie Defontaine3, Myl Leblanc-Mardor2
1 CEVA SANTÉ ANIMALE 10 Avenue de la Ballastière, 35101 LIGNIÈRE CEDEX FRANCE
2 IZLER, Reggio Emilia, Italy
3 BIOEPAR, INRA, Oniris, Université Bretagne Loire, 44 307 Nantes, France
VVD-PP-10
ANTIBODY RESPONSES TO INFLUENZA VIRUS TYPE A (IVA) FROM WEANING UP TO MARKETING IN PIGS IN ONTARIO, CANADA
Vahab Frazan1, Elana Raaphorst1, Robert M Friendship1, Brandon N Lillie1
1 University of Guelph

VVD-PP-11
ECONOMIC BENEFIT OF AN INCREASE IN PIGLETS WEANED AFTER ACHIEVING PRRS STABILITY IN A LARGE INTEGRATED PIG PRODUCTION SYSTEM IN EUROPE
Daniel Torrents1, Joel Miranda1, Rafael Pedrazuela1, Daniel Linhares1, Alex Ramirez2
1 Laboratorios HBPIRA S.A. Amer, Spain
2 Iowa State University, Ames (IA), USA

VVD-PP-12
TIME TO STABILIZATION IN 9 SPANISH FARMS EXPERIENCING PRRS OUTBREAKS BY VACCINATING PIGLETS AT PROCESSING
Javier Abadías1, Jonás Hernández1, Clara Farre1, Ester Maïques1
1 Zoetis Spain

VVD-PP-13
PRRSV MOLECULAR EPIDEMIOLOGY IS ABLE TO AUDIT BIOSECURITY IN PIG PRODUCTION COMPANIES
Jordi baliellas1, Elena Novell1, Vicens Tarancón1, Carles Vilalta2, Lorenzo Fraile3
1 Grup de Sanejament Porci, Lleida, Spain
2 Swine Health Monitoring Project, University of Minnesota, USA
3 University of Lleida, Lleida, Spain

VVD-PP-14
CO-INFECTION BY PORCINE CIRCOVIRUS TYPE 2 (PCV2) AND PORCINE PARVOVIRUSES 1-7 (PPV1-7) IN SERUM OF PIGS
Dagmara Milek1, Aleksandra Wozniak1, Tomasz Stadejek1
1 Department of Pathology and Veterinary Diagnostics, Faculty of Veterinary Medicine, Warsaw University of Life Sciences, Warsaw, Poland

VVD-PP-15
MACROSCOPIC AND MICROSCOPIC EVALUATION OF CENTRAL NERVOUS SYSTEM OF PIGLETS EXPERIMENTALLY INOCULATED WITH BOVINE VIRAL DIARRHEA VIRUS DURING FOETAL PERIOD
Marina Lopes Mechler-Dreibi1, Felipe dos Santos Gomes1, Igor Renan Honorato Gatto1, Gabriel Yuri Storino1, Felipe Ferreira Barbosa Pires1, Luis Guilherme de Oliveira1
1 São Paulo State University (Unesp), School of Agricultural and Veterinary Sciences, Jaboticabal, São Paulo, Brazil

VVD-PP-16
EXPERIMENTAL INOCULATION OF BOVINE VIRAL DIARRHEA VIRUS IN PREGNANT GILTS DID NOT INDUCE CONGENITAL PERSISTENT INFECTION IN PIGLETS
Felipe dos Santos Gomes1, Marina Lopes Mechler-Dreibi1, Igor Renan Honorato Gatto1, Gabriel Yuri Storino1, Felipe Ferreira Barbosa Pires1, Luis Guilherme de Oliveira1
1 São Paulo State University (Unesp), School of Agricultural and Veterinary Sciences, Jaboticabal, São Paulo, Brazil

VVD-PP-17
DETECTION OF PORCINE CIRCOVIRUS TYPE 2 (PCV2) IN DIFFERENT DIAGNOSTIC MATERIALS
Aleksandra Wozniak1, Dagmara Milek1, Tomasz Stadejek1
1 Department of Pathology and Veterinary Diagnostics, Faculty of Veterinary Medicine, Warsaw University of Life Sciences, Warsaw, Poland

VVD-PP-18
RESULTS OF DIAGNOSTIC SAMPLES FROM SWINE FOR SWINE INFLUENZA A VIRUS IN THE NETHERLANDS AND BELGIUM IN 2018
Peter van der Wolf1, Verena Schulers1, Emile Libbrecht2, Marlies Olde Munnikhof1, Katrin Strutzberg-Minderer3
1 IDT-Biologika Benelux
2 IDT-Biologika GmbH
3 VDV Innovative Veterinary Diagnostics (IVD GmbH)

VVD-PP-19
SUCCESS OF A NEW PRRS CONTROL PROGRAM, INCLUDING ROUTINE EARLY PIGLET VACCINATION, IN A PERSISTENTLY AFFECTED SPANISH FARM
Juan Rodríguez1
1 Agropormanso

VVD-PP-20
PREVALENCE OF PRRS VIRUS IN NURSERY PIGS IN DUTCH FARMS IN BETWEEN OCTOBER 2017 AND MARCH 2018
Anke Verhaegen1, Tom Meyns2, An Vanderzeypen2
1 ZOETIS B.V., Rivium Westlaan 74, Capelle ad Ijssel, The Netherlands
2 ZOETIS Benelux, Mercuriusstraat 20, 1930 Zaventem, Belgium

VVD-PP-21
EVALUATION OF SERUM PORCINE TESCHOVIRUS TITER IN GROWER PIGS WITH NEUROLOGICAL SIGNS – A LONGITUDINAL STUDY
Niels Grützner1,2, Maike Walther1, Sven Reiche3, Katja Goller3, Christina Bredtmann4, Corinne Gurtner4, Kerstin Albrecht5, Patricia Scheer6, Heiko Nathues2
1 IAEW, Martin Luther University, Halle-Wittenberg, Germany
2 Clinic for Swine, Vetsuisse Faculty, University of Bern, Switzerland
3 Department of Experimental Animal Facilities and Biorisk Management, Friedrich-Loeffler-Institute, Riems Island, Germany
4 Institute of Animal Pathology, Department of Infectious Diseases and Pathobiology, Vetsuisse Faculty, University of Bern, Switzerland
5 State Institute for Consumer Protection of Saxony-Anhalt, Department of Veterinary Medicine, Stendal, Germany
6 SUISAG, Division: Pig Health Service, Bern, Switzerland

VVD-PP-22
MONITORING THE EFFICACY OF A NEW PRRS VACCINATION PROGRAM IN A FARM EXPERIENCING AN OUTBREAK USING A NEW DIVA PCR PRRS TEST
Juan Grandía1, Teresa Montull1, Rocío Sarasa2, Beatriz Aznar2, Javier Abadías3
1 Agro-Test-Control, S.L
2 Inbiotic-Esmedagro, S.L
3 Zoetis Spain, S.L

VVD-PP-23
ABSENCE OF BOVINE VIRAL DIARRHEA VIRUS EFFECT ON THE SEMINAL QUALITY OF EXPERIMENTALLY INFECTED BOARS
Gabriel Yuri Storino1, Marina Lopes Mechler-Dreibi1, Eduarda Bellini Xavier1, Artur Simonatto Fioroto1, Igor Renan Honorato Gatto1, Maria Emilia Franco Oliveira1, Luis Guilherme de Oliveira1
1 São Paulo State University (Unesp), School of Agricultural and Veterinary Sciences, Jaboticabal, São Paulo, Brazil

VVD-PP-24
SAFETY AND EFFICACY OF PRRS VACCINATION IN PIGLETS AT 1 TO 4 DAYS OF AGE IN A FLEMISH FARM
Stefan De Groote1, Patrick Rabaeys1, An Vanderzeypen2, Anke Verhaegen1, Tom Meyns3
VVD-PP-25
DIAGNOSIS OF PORCINE CYTOMEGALOVIRUS BY QPCR
Lola Toledano1, Charlotte Kristiane Hjulsgaard1, Lars Erik Larsen1, Svend Haugegaard1, Tim Kær Jensen1,
Mette Sil Hansen1, Charlotte Sonne Kristensen1
1 SEGES Pig Research Center
2 National Veterinary Institute
3 SEGES Pig Research Centre

VVD-PP-26
PRRS 'PIGLET MONITOR' IN NORTHERN BELGIUM
Tamara Vandermeiren1, Willem Van Praet1, Caroline Bonckaert1, Marylène Tignon1, Herman Deschuytère1
1 Animal Health Care Flanders, Lier, Belgium
2 Scimenvo, Brussels, Belgium

VVD-PP-27
EVALUATION OF PCV2-VACCINATION IN A SOW FARM AND EFFECTS ON VIRUS LOAD IN BLOOD
AND SALIVA SAMPLES
Annette Gass-Coëf1, Astrid Pausenberger2, Katharina Schlessmann1, Robert Tabeling1
1 vet practice
2 MSD Animal Health

VVD-PP-28
DIAGNOSIS OF PORCINE CYTOMEGALOVIRUS BY QPCR
Lola Tolstrup1, Charlotte Kristiane Hjulsgaard1, Lars Erik Larsen1, Svend Haugegaard1, Tim Kær Jensen1,
Mette Sil Hansen1, Charlotte Sonne Kristensen1
1 SEGES Pig Research Center
2 National Veterinary Institute
3 SEGES Pig Research Centre

VVD-PP-29
EVALUATION OF PORCINE EPIDEMIC DIARRHEA VIRUS (PEDV) SEROPREVALENCE IN FRANCE IN 2018
Isabelle Corréa1, Roxanne Rossel1, Béatrice Grassland1, Nicolas Rose1
1 ANSP – 5 rue Lespagnol, 75020 Paris
2 Arses Laboratoire de Ploufragan-Plouzané-Niort, 22440 Ploufragan

VVD-PP-30
DISCOVERING THE DOOR OPENER FOR PRRS IN TWO NEGATIVE FARMS WITH BIOPORTAL: CASE
REPORT
Ivia Hernández-Cazavaca1, Sebastián Figueras-Gourgues1, Víctor Rodríguez-Vega1, Eugenio Sánchez Tarifa1,
Glòria Abella1
1 Boehringer Ingelheim Animal Health España

VVD-PP-31
OVERCOMING THE PRACTICAL LIMITATIONS OF PRRS ORF5 SEQUENCING
Laura Vallet1, Alba Sánchez1, Elena Navas1, Jaime Maldonado2
1 HBPR, Amer (Girona), Spain
2 HBPR

VVD-PP-32
USE OF OROPHARYNGEAL SWABS FOR PORCINE RESPIRATORY AND REPRODUCTIVE SYNDROME
VIRUS DIAGNOSTICS AND SURVEILLANCE
Carles Vilalta1, Jorge Garrido1, Juan Sanhueza1, Montserrat Torremorell1, Cesar Corzo1
1 Veterinary Population Medicine Department, University of Minnesota, USA
2 garr1099@umn.edu

VVD-PP-33
CHARACTERISTICS OF PCV2 INFECTION DYNAMIC RELATIVE TO THE AGE OF PIGS IN THREE EU
COUNTRIES
Roman Krejci1, Sophie Brilland1, David Espigares1, Michael Albin1, Andrea Luppi1, Vilmos Palya1, Zalan
Homonnay1
1 Ceva, Ceva, France
2 Ceva, Spain
3 Ceva, Denmark
4 IZSLE, Regio Emilia, Italy
5 Ceva Phylosis, Budapest, Hungary

VVD-PP-34
PCV2D-2 VIRUS DETECTED IN THE NETHERLANDS
Susan Kars-Hendriksen1, Zalan Homonnay2, Manon Houben3, Karin Junker3, Han Smits2
1 Ceva Santé Animale B.V., Naaldwijk, The Netherlands
2 Ceva Phylaxia, Budapest, Hungary
3 GD Animal Health, Deventer, The Netherlands

VVD-PP-35
EPIDEMIOLOGICAL SURVEILLANCE AND CHARACTERIZATION OF INFLUENZA A VIRUSES (IAV) IN
SPANISH AND PORTUGUESE PIG FARMS
Silvana Sosa1, Martí Cortey1, Carlos Casanovas2, Sergio Barrabés2, Susana Mesonero-Escuredo2, Montserrat
Tello1, Enric Mateu1, Gerard Martín-Valls1
1 Departament de Sanitat i Anatomia animals, Universitat Autònoma de Barcelona (UAB), 08193, Barcelona
2 IDT Biogalca SL, Gran Via Carles III, 84, 3º, 08028 Barcelona

VVD-PP-36
DETECTION AND GENOTYPING OF PCV-2 AND DETECTION OF PCV-3 IN SERUM SAMPLES FROM DIF-
FERENT EUROPEAN FARMS
Viviane Gass-Coëf1, Astrid Pausenberger2, Katharina Schlessmann1, Robert Tabeling1
1 vet practice
2 MSD Animal Health

VVD-PP-37
USE OF BIOPORTAL IN A PRRSV OUTBREAK IN A SPANISH FARM
Roberto Bautista1, Alberto García1, Sebastián Figueras-Gourgues1, Victor Rodríguez-Vega1, Eugenio Sánchez
1 Boehringer Ingelheim Animal Health España

VVD-PP-38
MOLECULAR CHARACTERIZATION OF ROTAVIRUS B AND ROTAVIRUS C STRAINS ISOLATED FROM
NEONATAL DIARRHEA OUTBREAKS IN CATALONIA.
Anna Vidal1, Margarita Martín1, Laila Darwich2, Martí Cortey1
1 Departament de Sanitat i Anatomia animals, Universitat Autònoma de Barcelona (UAB), 08193, Cerdanyola del
Vallés, Spain.
2 Centre de Recerca en Sanitat Animal (CRsSA), UAB-IRTA, Campus de la Universitat Autònoma de Barcelona,
08193, Cerdanyola del Vallés, Spain.
VVD-PP-52
CASE STUDY OF PRRSV ERADICATION BY COMBINING A MLV AND KV PRRS VACCINE ON A HUN- 
GARIAN SWINE FARM
Gabor Schindler1, Tamas Revesz1, Han Smits1, Preben Mortensen1
1 Ceva Hungary & EU zone, Budapest, Hungary

VVD-PP-53
PORCINE RESPIRATORY AND REPRODUCTIVE SYNDROME (PRRS) CONTROL IN 6 FATTENING TO FIN-
ISH (FF) HERDS: BENEFIT OF A WHOLE HERD APPROACH
Ingrid Masse1, Aline Lefévre2, Rémy Jazy1
1 Boehringer Ingelheim
2 SELAS vétérinaire HYVET

VVD-PP-54
PRRSV INFECTION IMPACT IN THE INTESTINAL MICROBIOME COMPOSITION: A COMPARATIVE 
STUDY WITH STRAINS OF DIFFERENT VIRULENCE
HECTOR ARGUELLO1, Irene Magdalena Rodríguez-Gómez1, Jose Maria Sánchez-Carvajal2, Francisco José 
Pallares1, Fiona Crispie1, Raúl Cabrera2, Enric Mateu2, Gerard Martín-Valis3, Librado Carrasco1, Jaimie 
Gómez-Laguna2
1 Grupo genómica y mejora animal. Departamento de Genética. Universidad de Córdoba.
2 Department of Anatomy and Comparative Pathology, Faculty of Veterinary Medicine, University of Cordoba, 
Cordoba, Spain
3 Dpto. Anatomía y Anatomía Patológica Comparada. Facultad de Veterinaria. Universidad de Murcia. Spain

A WN-PP-01
IN VIVO EFFECT OF A COMPOUND FEED THAT IS BENEFICIAL FOR INTESTINAL HEALTH AND 
GROWTH IN WEANING PIGLETS IS PREDICTED BY IN VITRO ANALYSES
Yvonne Schilder1, Bart Engelen1, Daniëlle Flechter1, Stefano Vaessens2, Rob Bleumink1, Robert Jan Veldman1, 
Bert Meijer1, Raymond Pieters2
1 Dopharma Research BV
2 Hogeschool Utrecht

A WN-PP-02
POSITIVE EFFECT OF PORCESTIN ON ZOOTECNICAL PARAMETERS (AVERAGE DAILY FEED INTAKE 
AND GROWTH) AND GUT HEALTH PARAMETERS (ILEAL VILLI LENGTH AND TOTAL ANTIOXIDANT 
CAPACITY) OF WEANED PIGLETS
Silvia Giorgi1, Marcello Comi1, Matteo Ghiringhelli2, Angelo Lauwaerts2, Tim Vandecasteele2, Valentino 
Bontemps3
1 Department of Health, Animal Science and Food Safety, Università degli Studi di Milano, Via Celoria 10, 20133 
Milan, Italy
2 Proviron Industries n.v., G. Gilliotstnaat 60, 2620 Hemiksem, Belgium

A WN-PP-03
IN VITRO PROBIOTIC PROPERTIES OF ARABINOXYLAN-RICH INGREDIENTS IN THE GASTROINTESTI-
NAL TRACT OF WEANED PIGLETS
Julie Uerlings1, Martine Schroyen1, Elsa Willems1, Geert Bruggeman2, Jérôme Bindelle1, Nadia Everaert1
1 Precision livestock and Nutrition Unit, TERRA teaching and research centre, Gembloux Agro-Bio Tech, ULiège, 
Passage des Déportés 2, 5030 Gembloux, BE
2 Royal Agrifirm Group, Landgoedlaan 20, 7325 AW Apeldoorn, NL

A WN-PP-04
EFFECTS OF DIETARY VITAMIN PREMIX LEVELS ON PHYSIOLOGICAL RESPONSES, BLOOD PROFILES 
AND REPRODUCTIVE PERFORMANCE IN GESTATING SOWS DIET
Hong Jun Kim1
1 Seoul National University

A WN-PP-05
EFFECTS OF DIETARY HY-D® ON PHYSIOLOGICAL RESPONSES, BLOOD PROFILES, REPRODUCTIVE 
PERFORMANCE AND THEIR PROGENY IN GESTATING SOWS DIET
Hong Jun Kim1, Sung Min Yoo1
1 Seoul National University

A WN-PP-06
CAN DIETARY FIBRE LEVEL AND A SINGLE ENRICHMENT TYPE REDUCE THE RISK OF TAIL BITING IN 
UNDOCKED PIGS?
Jen-Yun Chou1,2,3, Rick B. D’Eath2, Dale A. Sandercock2, Keelin O’Driscoll1
1 Teagasc
2 SRUC
3 University of Edinburgh

A WN-PP-07
EFFECT OF A NEW PROBIOTIC COMPOSITION (AQ02) ON NEWBORN PIGLETS
MARTA GARCIA-DIEZ1, HECTOR ARGUELLO2, JOAN MARCA1, ANA CARVAJAL1, PEDRO RUBIO1, ED-
GAR G. MANZANILLA4
1 Grupo genómica y mejora animal. Departamento de Genética. Universidad de Córdoba.
2 Grupo genómica y mejora animal. Departamento de Genética. Universidad de Córdoba.
3 Dpto. Anatomía y Anatomía Patológica Comparada. Facultad de Veterinaria. Universidad de Murcia. Spain

A WN-PP-08
MODELLING THE EFFECT OF BIOSECURITY PRACTICES ON KEY PIG WELFARE INDICATORS 
Maria Rodrigues da Costa1,2, Nienke van Staaveren3, Julia Calderón Díaz1, Gerard McCutcheon4, Edgar Gar-
cia Manzanilla1,2, Laura Boyle1
1 Pig Development Department, Teagasc - Animal & Grassland Research and Innovation Centre, Moorepark, 
Fermoy, Co. Cork, Ireland
2 School of Veterinary Medicine, University College Dublin, Belfield, Dublin 4, Ireland
3 School of Animal Biosciences, University of Guelph, Guelph, N1G 2W1, Canada
4 Pig Development Department, Teagasc Oak Park, Co. Carlow, Ireland.

A WN-PP-09
BACILLUS-BASED PROBIOTIC REDUCES FAECAL EXCRETION OF CLOSTRIDIUM PERFRINGENS IN 
SOWS AROUND FARROWING
Antonia Schulte1, Birgit Keimer1, Carina Helmer2
1 Biochem Zusatzstoffe GmbH, Germany
2 AnCon Labor GmbH, Germany
AWN-PP-10
COMBINATION OF A BACILLUS-BASED PROBIOTIC AND YEAST-BASED PREBIOTIC IMPROVES FAECAL CONSISTENCY AND REDUCES INDIVIDUAL ANTIBIOTIC TREATMENT IN EARLY WEANED PIGLETS
Birgit Keimer1, Antonia Schulte1
1 Biochem Zusatzstoffe GmbH, Germany

AWN-PP-11
EFFECT OF A COMMERCIAL ORGANIC ACID BLEND ON GROWTH PERFORMANCE, GUT MORPHOLOGY, MICROBIOTA COMPOSITION AND METABOLIC FUNCTION IN NURSERY PIGS UNDER DIETARY AND ENVIRONMENTAL CHALLENGES
Ping Ren1, Juxing Chen1, Mercedes Vazquez-Anon1
1 Novus International, Inc., St. Charles, Missouri, USA

AWN-PP-12
COLLECTION AND COMPOSITION OF SALIVA FROM SUCKLING PIGLETS
Eva de Gooede1, Floris Blikker1, Tje J. Tobias1
1 Academic Centrum Tandheelkunde Amsterdam
2 Faculty of Veterinary Medicine, Utrecht University, the Netherlands

AWN-PP-13
PORK PRODUCER OUTREACH: COULD WE BE DOING BETTER? RESULTS OF A NORTH AMERICAN SURVEY
Sarah H Ison1,2, Ronald O Bates3, Juan P Steibel4, Catherine W Ernst1, Janice M Siegford1
1 World Animal Protection
2 Michigan State University

AWN-PP-14
CHARACTERIZATION OF DEPOSITS IN DRINKING WATER PIPES IN PIGLET NURSERIES
Johanna Vogel1, Jost Wingender1, Jaqueline Uphoff1, Kai Aumann1, Gabriela Schaul1, Diana Meemken1, Isabel Henning-Pauka1
1 Field Station for Epidemiology, University of Veterinary Medicine Hannover, Bakum, Germany
2 Biofilm Centre, Aquatic Microbiology, University of Duisburg-Essen, Essen, Germany
3 Aumann Hygienetechnik, Vechta, Germany
4 IWW Water Centre, Mülheim, Germany
5 Institute for Food Safety and Food Hygiene, Freie Universität Berlin, Berlin, Germany

AWN-PP-15
NORTH AMERICAN STAKEHOLDER PERCEPTIONS OF ISSUES AFFECTING THE MANAGEMENT, PERFORMANCE, AND WELFARE OF PIGS
Sarah H Ison1,2, Kaitlin E Wurtz2, Carly I O'Malley2, Janice M Siegford2
1 World Animal Protection
2 Michigan State University

AWN-PP-16
EFFECTS OF OIL ADMINISTRATION ON ENDOTOXIN TRANSLOCATION IN WEANING PIGLETS
Nicole Reisinger1, Barbara Doupovec1, Caroline Ensenhuber1, Elisabeth Mayer1, Gerd Schatzmayr1
1 BIOMIN Research Center

AWN-PP-17
COMPARATIVE EFFICACY OF ORAL MELOXICAM (METACAM® 15 MG/ML ORAL SUSPENSION FOR PIGS) AND INJECTABLE KEToprofen AS METAPHYLAXIS TREATMENT IN POST-PARTUM SOWS
Ivan Galiano1, Paula Sánchez1, Sebastián Figueras2, Antonio Callén2, Gloria Abella2, Ivan Hernández1, Victor Rodriguez1, Eugenio Sánchez2
1 Agproar S.L., Murcia, Spain
2 Boehringer Ingelheim Animal Health España, Spain.

AWN-PP-18
SCORING CLAW LESIONS ON A DUTCH SOW HERD: USING INTERDISCIPLINARY KNOWLEDGE IN YOUR PRACTICE
Aron Coenders1, Willeke Kuller1, Josine Gelauf1, Bas Kolpa1
1 University Farm Animal Practice, Harmelen, The Netherlands

AWN-PP-19
RELATIONSHIP BETWEEN SKIN LESION SEVERITY AND PHYSIOLOGICAL STRESS INDICATORS, CARCASS AND MEAT QUALITY OF SLAUGHTER PIGS
Nikola βobanović1, Nedjeljko Karabasil1
1 Department of Food Hygiene and Technology, Faculty of Veterinary Medicine, University of Belgrade

AWN-PP-20
FUNGAL FERMENTED PRODUCTS INCREASE GROWTH AND SLAUGHTER WEIGHT OF FATTENERS.
Sara Sancho Knapik1, Juan Antonio Mesonero Escuredo2, Janneke Allaart3, Petra Roubos3, Nienke de Groot2
1 Inga Food I + D
2 Trouw Nutrition
3 Trouw Nutrition R&D

AWN-PP-21
USE OF BONE BIOMARKERS OSTEOCALCIN AND C-TELOPEPTIDE TO DIAGNOSE METABOLIC BONE DISORDERS IN PIGS
Theo Geudeke1, Godfried Groenland2, Sylvia Greijdanus1, Kikianne Kroeske1, Guillaume Counotte1
1 GD Animal Health, Deventer, The Netherlands
2 De Heus Animal Nutrition, The Netherlands

AWN-PP-22
POST OPERATIVE INTRANASAL PAIN TREATMENT IN A MINIATURE PIG
Alexander Grahofer1, Alessandro Mirra2
1 Clinic for Swine, Vetsuisse Faculty, University of Bern, Switzerland
2 Clinical Anesthesiology, Vetsuisse Faculty, University of Bern, Switzerland

AWN-PP-23
SPECIFIC DIETARY AMINOACIDIC PROFILE MIGHT IMPROVE GROWTH PERFORMANCE OF PIGLETS FROM GILTS IN THE POST WEANING PHASE
Carlos Pineiro1, Joaquín Morales1, Gema Montalvo1
1 PigCHAMP Pro Europa. C/Dámaso Alonso 14, 40006, Segovia, Spain

AWN-PP-24
INFLUENCE OF LIVE WEIGHT OF GROW-FINISH PIGS ON THE FEED INTAKE FED VIA A LIQUID FEEDING SYSTEM WITH DIFFERENT GROUP SIZE AND WITH A DIFFERENT PIG-TO-FEEDER RATIO.
Martin Ziron1, Julia Aschebrenner1
1 FH SWF Soest

AWN-PP-25
ANIMAL WELFARE ASSESSMENT IN GERMAN FATTENING PIG UNITS – CLINICAL EVALUATIONS (PART OF THE MUITIVIS-PROJECT)
Ines Spiekermeier1, Birte Wegner2, Julia Grosse-Kleimann3, Henning Meyer4, Heiko Plate2, Hendrik Nienhoff1, Michaela Felb1, Elisabeth grosse Beilage5, Luis Kreienbrock6, Hubert Gerhardy6
1 Swine Health Service, Chamber of Agriculture Lower Saxony, Oldenburg, Germany
2 Institute for Animal Hygiene, Animal Welfare and Farm Animal Behaviour, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany
3 Department of Veterinary Medicine, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany
4 VfS GmbH Erfolg mit Schwein, Uelzen, Germany
5 Field Station for Epidemiology, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany
6 Marketing Service Gerhardy, Garbsen, Germany
AWN-PP-26
STATUS QUO ANALYSES OF NOISE LEVEL IN PIG FATTENING UNITS IN GERMANY
Birte Wegner1, Ines Spiekermeier1, Hendrik Nienhoff1, Julia Grosse-Kleinmann1, Karl Rohn1, Henning Meyer1, Helko Plate1, Hubert Gerhardy1, Lothar Kreienbrock1, Elisabeth grosse Beilage1, Nicole Kemper1, Michaela Fels1
1 Institute for Animal Hygiene, Animal Welfare and Farm Animal Behaviour, University of Veterinary Medicine Hanover, Foundation, Germany

AWN-PP-27
IRON DEFICIENCY IN NEWLY WEANED PIGS
Robert Friendship1
1 University of Guelph

AWN-PP-28
USE OF ANTIPYRETIC, ANTI-INFLAMMATORY AND ANALGESIC MEDICATION IN BELGIAN SWINE INDUSTRY
Alexandra Schoon1, Eva De Jonghe1, Peggy De Backer1, Dominiek Maes1
1 Ghent University, Faculty of Veterinary medicine, Porcine Health Management Unit
2 Ceva Santé Animale, Metrologielaan 6, 1130 Brussels, Belgium

AWN-PP-29
MICROBIOTA REGULATION IN INTESTINE OF PIGLETS FED DIFFERENT COPPER SOURCES AND DOSES
Carmen Ambrosio1, Hauke Smidt1, Jurgen van Baal1, Rudi Forier1, Agathe Romeo2, Paul Bikkes1
1 Wageningen University & Research, 6708 PB Wageningen, The Netherlands
2 Animine, 74330 Sillingsy, France
Shigatoxin/Edema Disease:
Still walking on a tight rope?

Eliminate the threat completely. Tread on solid ground.

IDT Biologika  Am Pharmapark  06861 Dessau-Rosslau, Germany
+49 34901 885 5000  www.idt-animal-health.com

Ecoporc SHIGA suspension for injection for pigs. Qualitative and quantitative composition: Each dose of 1 ml contains: Active substance: Genetically modified recombinant Stx2e antigen: ≥ 3.2 x 10^6 ELISA units. Adjuvant: Aluminium (as hydroxide) max. 3.5 mg. Excipient: Thiomersal max. 0.115 mg.

Indications for use: Active immunisation of piglets from the age of 4 days, to reduce the mortality and clinical signs of oedema disease caused by Stx2e toxin produced by E. coli (STEC). Onset of immunity: 21 days after vaccination. Duration of immunity: 105 days after vaccination.

Contraindications: Do not use in case of hypersensitivity to the active substance, to the adjuvant or to any of the excipients.

Adverse reactions: Commonly very small local reactions such as mild swelling at the injection site (maximum of 5 mm) may be observed, but these reactions are transient and subside within a short time (up to seven days) without treatment. Clinical signs such as temporary mild behavioural disturbances can uncommonly be observed after application of Ecoporc SHIGA. Commonly a slight rise in body temperature (maximum of 1.7 °C) may occur after injection. But these reactions subside within a short time (maximum of two days) without treatment. Withdrawal period: Zero days.


WELCOME RECEPTION
The Welcome Reception takes place in Tivoli-Vredenburg on Floor 5 and 6 on Wednesday 22 May, 18h00, after the scientific programme.
Tivoli-Vredenburg has been striving to be as open as possible since its opening. A low-threshold and accessible place, from and for the city, for young and old. The wide programme attracts many different audiences to the different halls, but there is also room for meetings and liveliness in the spaces between them. The K.F. Hein Foyer and Plein 6 are such examples of how Tivoli-Vredenburg wants to implement this.
Join us for a drink and food bites on the first symposium day of the 11th ESPHM and take this opportunity to socialize with colleagues, friends and make new contacts in an informal environment.

PUB CRAWL
After the Welcome Reception we invite you to discover the beauty of Utrecht with a Pub Crawl along different Pubs, hosted by official sponsors of the ESPHM2019.
Some of the sponsors have fully adopted a Pub in the heart of the city center. It is up to you to discover the city and find the Pubs (with guidance) to join them for a drink and some food bites. We will provide you with a map of the city center, some coins for your drinks and guidance along the way.

SYMPOSIUM FAREWELL DINNER
The Farewell Dinner takes place in the Ronda, which is one of the unique halls of Tivoli-Vredenburg, on Thursday 23 May from 20h00.
The name Ronda comes from the round shape of the hall and the fact that the hall hangs like a house in the building; just like the houses on the mountain ridge of the Spanish city of Ronda.
The Boston Tea Party will join us for musical entertainment. They are, according to insiders, Dutch best and especially most fun music band with well-known hits and many mash-ups of delicious old and new party classics.
**PRRS VACCINATION**

**FROM 1 DAY OLD**

**RELEASE NEXT GENERATION PRRS CONTROL:**
- Flexibility to use from 1 day old
- Earliest immunity for finishing pigs
- Protection right through to slaughter
- Protects piglets, gilts and sows

**SUVAXYN. PRRS MLV**

**PROTECTS PIGLETS, GILTS AND SOWS**

Further information is also available from the Summary of Product Characteristics or please contact your veterinary surgeon, or Zoetis UK Ltd, Walton Oaks, Dorking Road, Tadworth, Surrey KT20 7NS. Customer Support: 0845 300 8034. Suvaxyn PRRS MLV contains Modified Live PRRS, strain 96V198. Use medicines responsibly (www.noah.co.uk/responsible). Date of preparation March 2019. MM-04822

---

**GOLD SPONSORS**

**BOEHRINGER INGELHEIM ANIMAL HEALTH**
www.boehringer-ingelheim.com

Boehringer Ingelheim is the second largest animal health business in the world. We are committed to creating animal wellbeing through our large portfolio of advanced, preventive healthcare products and services. With net sales of 3.9 billion euros (2017) and around 10,000 employees worldwide, we are present in more than 150 markets. We believe that the value of an animal health company goes beyond the products they sell. It's the industry knowledge, technical support and customized solutions they bring that really help improve your overall production and profitability.

Prevention Works is a holistic approach to swine health built on our range of innovative world-class vaccines complemented by:
- Professional people with a passion for pigs
- State-of-the-art diagnostics and support from global research facilities
- Tools to evaluate the success of prevention

Ultimately, we are committed to providing the unique knowledge, products and support services producers and veterinarians need to minimize disease transmission, maximize immune response and optimize profitability.

Our goal is to shape the future of Swine Health and help you take pig production to the next level.

For more information visit www.preventionworks.info

---

**CEVA SANTÉ ANIMALE**
www.ceva.com

Driven to innovate and with a proven record of double-digit growth, Ceva is one of the fastest growing top 10 animal healthcare companies. Our vision reaches far beyond animal health and welfare.

We're truly global, based in 45 countries and working across more than 110. We have 12 R&D centres, 25 production sites and more than 5000 employees worldwide.

Ceva is a key partner for the swine sector, thanks to a broad range of veterinary products providing the right responses to the sanitary and zootechnical objectives of modern swine farming. The Group has invested heavily, especially in R&D, to offer the right products to meet the needs of professionals, notably in vaccines, reproduction and anti-infectives.
On 25th April 2019, Ceva Santé Animale announced the launch of Forceris, the first approved injectable combination of gleptoferron and toltrazuril in Europe.

For more information, please come and visit us on our booth #8

Ceva Santé Animale – France
10 av. de la Ballastière
33500 Libourne - France
www.ceva.com

DOPHARMA
www.dopharma.com

Dopharma is a family owned veterinary pharmaceutical company with its headquarters in the Netherlands. Dopharma delivers high quality veterinary pharmaceuticals for livestock since 1969. Dopharma’s products are sold in over 50 countries by 4 local subsidiaries and approximately 40 distribution partners. Dopharma produces antibacterial, antiparasitic and anti-inflammatory products as well as hormone preparations, corrective preparations and complementary feed.

GD ANIMAL HEALTH
www.gdanimalhealth.com

Teaming up for animal health, in the interest of animals, their owners and society at large. For one hundred years, that has been the mission for which we stand at GD.

Approximately 500 employees innovatively work on the health of farmed animals and companion animals every day together with farmers, veterinarians, governments and the industry. GD is mainly active on the Dutch market, but is nowadays undertaking increasingly more international activities. In 2018, GD recorded a turnover of 60 million euros.

We own one of the largest veterinary laboratories in the world, in which we perform over 5 million laboratory analyses annually. GD employs a team of veterinarians, specialists and scientists who execute animal health monitoring, conduct practical research and develop programmes for animal disease prevention and control.

The combination of diagnostics and animal health expertise is what makes GD so unique. This enables us to offer products and services that not only improve animal health, but are also convenient for our customers and generate good financial returns.

Our laboratory is equipped with state-of-the-art appliances. Approximately 1,000 different analyses are performed routinely, varying from post mortem research (dissection) to executing molecular diagnostic tests.

GD has a good international reputation as a contract research organisation for applied research, education and consultancy. Our ‘GD Academy’ education and training institute organises training sessions about animal health for farmers and their veterinarians and for the pharmaceutical and feed industries. The courses comprise both theory and practice of veterinarian diagnostics and laboratory research.

HIPRA
www.hipra.com

HIPRA is a veterinary pharmaceutical company dedicated to the research, production and marketing of products for Animal Health. At HIPRA we are convinced that the future lies in prevention. We are specialists in developing innovative preventive solutions. We have a broad range of highly innovative Biological products, an advanced diagnostic service and our own line of Diagnostic kits. HIPRA has a great potential for growth and the most products launched in recent years, and this line will continue in the coming years. This enables us to continue our international expansion, while always maintaining the independence that we are characterized by and the entire dedication to the world of animal health and serving our customers.

IDT BIOLOGIKA
www.idt-biologika.com

The IDT Animal Health (a division of IDT Biologika) develops, produces and markets high-quality animal vaccines and pharmaceuticals to be used in veterinary practice, with a particular focus on livestock, especially swine. However, vaccines are also produced for cattle, rabbits, pigeons and poultry.

With its rabies vaccines for the oral immunisation of foxes, IDT Animal Health has been crucial to the successful eradication of rabies in Germany as well as in other European countries and beyond. Therefore, IDT Animal Health is a respected partner for the research and control of wild and domestic animal rabies worldwide.

Moreover, IDT Animal Health offers solutions for problems for which there are no commercial vaccines available as yet. The vaccines of the BESTVAC brand are manufactured in an outstanding quality for which they are known for in all of Europe.
IDT Animal Health operates its own modern research facility for the development of innovative animal vaccines.

At IDT Biologika, we are an international leader in the field of biotechnology, a key global technology for the 21st century. An almost 100-year tradition of manufacturing vaccines and pharmaceuticals motivates and obligates us to continue our work in improving the health of humans and animals.

The headquarters of the company are in Dessau, Germany. IDT Biologika also operates worldwide through subsidiaries.

IDT Biologika
Am Pharmapark
06861 Dessau-Roßlau, Germany
Phone: +49 (0)34901 8850

MSD ANIMAL HEALTH
www.msd-animal-health.com

As a global healthcare leader, MSD works to help the world be well. MSD Animal Health, known as Merck Animal Health in the United States and Canada, is the global animal health business unit of MSD. We offer one of the industry's most innovative portfolios – not only of products, but also of services and technologies – to prevent, treat and control diseases across all major farm and companion animal species. Our mission – The Science of Healthier Animals – guides all of our work. Healthier animals mean a sustainable food supply, protection for humans against diseases passed from animals, and longer, healthier lives for pets.

Our products fight diseases that can devastate animals, threaten human health, and disrupt the supply of food. We continually introduce new technologies to help our customers maximize their efficiency while improving animal wellbeing, such as the world's first non-parasiticide cattle product with a transdermal route of administration. Finally, we keep people happy by caring for their family pets with innovative products including the first chewable tablet for dogs effective against fleas and certain tick species for up to 12 weeks.

MSD Animal Health’s robust R&D pipeline spans key therapeutic areas, providing a solid platform for further advances in veterinary medicine. Our customers expect more from us than just medicines, and we continue to deliver the information, technologies and veterinary services to meet their needs around the world. As a multi-species global company operating in more than 150 markets, we respond readily to the demands of our dynamic industry.

For more information, visit www.msd-animal-health.com or connect with us on LinkedIn and Twitter.

TROUW NUTRITION
www.trouwnutrition.com

Trouw Nutrition, a Nutreco company, is a global leader in innovative feed, farm and health management solutions for animal production, offering a range of products, models and services to boost productivity and support animal health through each life stage. With our unique, science-based solutions, Trouw Nutrition has been meeting the needs of farmers and home-mixers, feed producers, integrators and distributors since 1931. Headquartered in the Netherlands, our company has locations in 28 countries, employing approximately 8,000 people.

Trouw Nutrition is committed to sustainably feeding the world's growing population with healthier and safer foods of animal origin by driving the transition from current animal nutrition practices to new, sustainable, integrated farming solutions. Trouw Nutrition's key innovation focus areas are Early Life Nutrition, Healthy Life, Precision Farming and Feed Safety & Quality. We conduct more than 70 global R&D studies annually at our in-house research facilities to develop nutritional products, models and services, and to explore their mode of action. Located in Canada, the Netherlands and Spain, these high-tech facilities include specialist electronic feeding and water stations that allow our researchers to individually monitor the feeding behaviour of animals in group-housed facilities. In addition, we employ metabolism facilities for health-related, physiological and digestibility research.

Passion and science are our core drivers. By providing knowledge-based solutions suited to today's ever-changing and increasingly connected world, we are able to ensure the profitability of our customers and business partners around the world. Our unique, integrated approach delivers the highest quality of feed, best farm-management practices, and optimal animal health and performance.
VETOQUINOL
www.vetoquinol.com

VETOQUINOL, YOUR TRUSTED ANIMAL HEALTH PARTNER

Founded in 1933, Vetoquinol is a leading international player in animal health. Vetoquinol innovates, develops, manufactures and sells medicines and non-medicinal products for food-producing animals (cattle & pigs) and pets (dogs & cats).

With a presence amongst the top 10 global veterinary pharmaceutical laboratories, Vetoquinol combines durability, development and responsibility, while continuing to pursue its personal adventure.

Vetoquinol develops sustainable links based on trusted relationships, with veterinarians, breeders and pet owners alike. In constant contact with customers, Vetoquinol works to continuously adapt its products and services to their needs.

Partners and customers who trust us. In the world of the pharmaceutical industry, Vetoquinol stands apart due to its position as a company that’s firmly dedicated to animal health and a trusted partner. Whether supporting a veterinarian who is developing a new clinic, helping a producer get the most out of their farm, or helping an animal lover maintain their pet’s well-being by providing high-quality products, Vetoquinol’s commitment remains focused on the same promise made over 85 years ago: achieve more together.

By the side of professionals: In addition to its widely-recognized high-quality products, Vetoquinol is going even further by designing value-adding services alongside veterinarians for use in their daily practice with their customers and breeders, including digital tools to improve observations and technical and scientific training, for example. Veterinarians represent the essential link in the world of animal health. The company focuses on building quality relationships with veterinarians and customers, listening carefully and responding to their needs.

ZOETIS
www.zoetis.com

At Zoetis, we discover, develop, manufacture and market veterinary medicines, vaccines and diagnostics, complemented by genetic tests, biodevices and a range of services. We work to help meet the growing worldwide demand for meat, poultry, fish, eggs and dairy foods and to care for the increasing number of pets. We support those who raise and care for farm animals with a range of products and services that offer tangible solutions to the many health and productivity challenges they face every day. Zoetis is working to develop a next generation of animal health solutions that will help farmers and veterinarians produce a safe, affordable and sustainable supply of animal protein despite finite natural resources and other constraints. We are proud of our six-decade commitment to the veterinary profession. For practicing professionals, we provide technical support and continuing education. We partner with veterinary professional associations and institutions to provide scholarships, career development programs and research fellowships for veterinary students. In developing countries, we participate in collaborations with veterinary colleges and associations to elevate standards of veterinary education, modernize treatment and standards of care, and grant wider access to care. With our singular focus on animal health, we strive to make our products, services and people the most valued by veterinarians and livestock farmers around the world.
Henke-Sass, Wolf GmbH is a leader in the concept, design, production, sales & service of a range of needles, syringes and injection systems. HSW quality products are innovative, user-friendly and are specifically designed for use in the veterinary field.

Pharmacosmos markets its world leading injectable iron brand Uniferon® through dedicated partners in more than 20 countries. Our injectable iron is a proprietary Pharmacosmos product optimized for use in veterinary medicine and it is supported by a strong brand platform and farm-level anaemia management service program. The optimal partner are companies with a full sales coverage of their local market, strong competencies in veterinary medicine, and a dedication to bring optimal iron care to their local veterinarians and farmers.

We collaborate with leading medical experts in driving research to uncover new clinical insights of iron metabolism and iron deficiency that have the potential to change the way iron deficiency is prevented and treated in humans. We are actively seeking opportunities to collaborate on investigator sponsored studies.

Across the world, more than 1 billion people live with iron deficiency anaemia, making it one of the largest global health challenges of our time. At Pharmacosmos, we want to change the way iron deficiency is prevented and treated in humans and animals.

We are inspired by one central question: How can we continue to improve patient safety, recovery and convenience and thereby achieve better outcomes?

We seek the answer by staying at the scientific forefront of iron and carbohydrate technology - partnering with dedicated people and leading organisations to deliver the best possible treatments for human and veterinary use. In this way, we improve more than iron complexes and carbohydrates, we improve the quality of lives.

Lanxess is a global leader in the research, development and manufacture of advanced Biosolve™ cleaning and Virkon™ disinfection biosecurity products, for livestock production, aquaculture and emergency disease control.

Committed to delivering science-based, sustainable chemistries which are easy to use and proven effective against disease-causing organism that affect farm productivity.

Pig genetics company Topigs Norsvin is renowned for its innovative approach to implementing new technologies and a continuous focus on cost-efficient and sustainable pig production. Research, innovation, and dissemination of genetic improvement are the cornerstones of the company. Continuous and strong product improvement will enable clients to achieve significant added value in their production. We are more than happy to tell you more. Please visit www.topigsnorsvin.com or connect with Ton van de Goor, Director Marketing & Communication via ton.van.de.goor@topigsnorsvin.com
PRACTICAL INFORMATION

CONFERENCE VENUE

The 11th European Symposium of Porcine Health Management (ESPHM) is held at Tivoli-Vredenburg in Utrecht, The Netherlands.

TIVOLI-VREDENBURG
Vredenburgkade 11
3511 WC Utrecht
The Netherlands

SYMPOSIUM SECRETARIAT

Klinkhamer Group | conferences & events
Duboisdomein 5D 01
6229 GT Maastricht
The Netherlands

T: +31(0)43-3627008
E: helpdesk@klinkhamergroup.com

REGISTRATION DESK OPENING HOURS

Wednesday May 22nd: from 11:00h to 17:00h
Thursday May 23rd: from 08:00h to 18:00h
Friday May 24th: from 08:00h to 13:00h

Please go to the registration desk upon arrival to collect your symposium documents.

WARDROBE TIVOLI-VREDENBURG OPENING HOURS

Wednesday May 22nd: 10h00 to 20h00
Thursday May 23rd: 07h30 to 19h30
Friday May 24th: 07h30 to 14h00

All items have to be picked up before closing. If not picked up, Tivoli-Vredenburg staff will bring it to the artists’ reception at the end of the day.

WIFI

The WiFi access is free for all the attendants to the symposium. This network will be broadcasted to all symposium venue areas. Access to this WiFi network is through the following network (no password needed):

Network: ESPHM2019 (sponsored by FORCERIS by CEVA)

APP

Stay tuned by downloading the App!
Search for the App ESPHM2019 in the Apple store or Google Play, download and you’re ready!

PUBLIC TRANSPORT

For up to date schedule information about trains and buses, we advise you to visit www.9292.nl/en. This is the most common public transport planner in the Netherlands.

MEDICAL ASSISTANCE AND INSURANCE

In emergency situations, you can contact the local police, ambulance service, fire department and other emergency services by calling 112.

Participants are advised to make their own arrangements regarding travel insurance and medical assistance during the symposium. Neither the Organization nor the Secretariat are able to accept any responsibility whatsoever for damage or injury to persons or their belongings during the symposium.

BADGES AND SECURITY

It is essential that you wear your personal badge at all times while in the symposium venue.

ATTENDANCE CERTIFICATE

Attendance Certificates will be issued by the Symposium Secretariat and can be downloaded after the symposium through your personal ESPHM2019 account.
**Live vaccine, Porcine Reproductive and Respiratory Syndrome (PRRS)**

**UNISTRAIN® PRRS. Composition per dose:** Live attenuated Porcine reproductive and respiratory syndrome virus (PRRSV), strain VP-046 BIS 103.5-105.5 CCID50 (cell culture infectious dose). Phosphate buffer solution.

**Indications:**
- **Breeding females:** For active immunisation of breeding females from farms affected with European PRRS virus to reduce reproductive disorders, incidence and duration of viraemia, transplacental virus transmission, virus tissue load and clinical signs associated with infection with strains of PRRS virus. Under laboratory conditions, vaccination of females reduced the negative impact of PRRS virus infection on piglet performance (mortality and weight gain) within the first 28 days of life. **Onset of immunity:** 30 days after vaccination. **Duration of immunity:** 16 weeks demonstrated by challenge. Pigs from herds vaccinated with UNISTRAIN® PRRS can develop classical signs associated with PRRS, but the incidence and duration of viraemia and the duration of virus shedding by PRRS-affected pigs is lower and under experimental conditions, where a PRRS infection occurred during the fattening period, a reduction in mortality and the negative effects of infection on daily weight gain was demonstrated. **Onset of immunity:** 4 weeks after vaccination. **Duration of immunity:** 24 weeks. [more details on administration and use]
- **Piglets:** For active immunisation of pigs from farms affected with European PRRS virus to reduce clinical signs associated with a PRRS virus infection, the incidence and duration of viraemia and the duration of virus shedding by infected animals. Under experimental conditions, where a PRRS infection occurred during the fattening period, a reduction in mortality and in the negative effects of infection on daily weight gain was demonstrated.

**Dosage:** 2 ml intramuscular injection or 0.2 ml via intradermal administration.

**Side effects & Contraindications:** Do not use in case of hypersensitivity to the active ingredient or to any of the excipients. Do not use in naïve breeding herds in which the presence of European PRRSV has not been established through reliable diagnostic virological methods. **Withdrawal period:** Zero days.

**Packaging:** IM: vials of 10, 25, 50, 100 and 125 doses plus solvent. ID: vials 50, 100, 125 doses plus solvent.

**Special storage precautions:** Lyophilisate: store and transport refrigerated (2º-8º). Solvent: store and transport below 25ºC. Do not freeze. Protect from light.

**Marketing Authorisation Holder:** LABORATORIOS HIPRA, S.A. Avda. la Selva, 135. 17170 Amer (Girona) SPAIN. **Marketing Authorization Number:** 2738 ESP. Under veterinary prescription. Use medicines responsibly.
BRINGING PIGLETS TO A HIGHER LEVEL

A single action for a healthy start

• In one single injection, Forceris™ prevents iron deficiency anaemia and controls coccidiosis.
• Forceris™ is the combination of 2 best in class products:
  - Gleptoferron, a high performance injectable iron
  - Toltrazuril, the well-known anticoccidiosis.
• Forceris™ is the indispensable single injection for a healthy start in piglets to optimize their performances and insure your profitability.
OUTSTANDING RESPIRATORY DISEASE TREATMENT

World class activity against mycoplasma¹

Anti-inflammatory action²

Immunomodulating³

References: