

# **PROGRAMME BOOK**

BUDAPEST May 11-13, 2022

HARTER AND A DECEMBER OF A DEC



ESPHM 2022 II PROGRAMME BOOK



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# WELCOME MESSAGE



Dear ESPHM Delegates, Ladies and Gentlemen,

On behalf of the organizing committees of the 13<sup>th</sup> European Symposium of Porcine Health Management, it is my greatest pleasure to welcome you to Budapest. This symposium is a very special event because it has been a long time, three years, elapsed since the latest personal meeting of the European pig professionals and it is an extraordinary occasion for the veterinarians in Hungary: we have never hosted such a large-scale swine health and management conference, even though the Hungarian veterinary scientists have recognized traditions in that field.

Our profession is the reaction: we always have to find a proper answer to the challenges given by the highly variable circumstances. 'Crisis management' is probably the best expression describing the circumstances of the recent years. Beside the 'A' acronyms like ASF, AMR which have become the part of our everyday life, the covid pandemic and the most recent extremely sad and regretful war crisis in Ukraine, all have a huge impact on the pig and porkindustry. So, we react: the title of the first keynote session of this symposium is the crisis management. You can also follow the most recent scientific news in the keynote topics of sustainable pig production (i.e. trends of the pork consumption and consumer expectations, how to

make the pig farms more 'green'), the relationship between the swine and human health through potentially zoonotic diseases and the eradication of some economically important pig diseases. I am grateful to our outstanding keynote speakers, to the ECPHM Board and the Veterinary Practitioners Council for organizing and performing such a great and up-to-date scientific programme. A large conference with many attendees requires a solid technical organization background: thanks to Vet International we do have got it here. Implementing such an event without generous support of sponsors is certainly impossible. We gratefully appreciate our sponsors' contribution. One should never forget: crisis is a possibility for a new development. I wish to all of you an interesting, fruitful and inspiring symposium, a start of new developments, meetings, discussions. Last but not least: do not fail to discover and enjoy

the marvellous city of Budapest. Hungary is friendly welcoming you.

Yours Sincerely

József Földi Chair of the 13<sup>th</sup> ESPHM

# COMMITTEES

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László Búza Hungarian Association of Porcine Health Management



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Adél Orosz Bonafarm Group, Bóly Zrt.



Tim van Sprang Swine veterinarian at Royal Agrifirm Group

### **ECPHM** THE EUROPEAN COLLEGE OF PORCINE HEALTH MANAGEMENT LTD.



www.ecphm.org

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

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

EBVS encourages and promotes the enhanced utilization and availability of veterinary specialist services to the public and the veterinary profession.

The ECPHM works for the advancement of health and welfare oriented porcine production management in the herd context in Europe, and the increase of the competency of those who practice in this field.

The major objectives of the ECPHM include:

- Establishing guidelines and standards of training for postgraduate education and experience prerequisite to become a veterinary specialist in the specialty of porcine health management.
- Examining and authenticating veterinarians as specialists in porcine herd health management to serve health and welfare of the animals, the economic outcome of the herd, and the production of safe quality product for consumers in a sustainable animal production by providing expert care for pigs.
- Encouraging research and other contributions to the science and practice of porcine herd health management including husbandry, reproduction, epidemiology, pathogenesis, diagnosis, therapy, prevention, and control of diseases directly or indirectly affecting pigs and the maintenance of healthy and productive pig herds. Porcine health management also includes the impact on quality and safety of pork and gives special consideration to herd health and production, production systems and targets, and the management of pig populations.
- Promoting communication and dissemination of knowledge.

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

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





www.esphm2022.org

The first ESPHM was organized by the ECPHM 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 2010 Hannover (Germany) ESPHM 2011 Helsinki (Finland) ESPHM 2012 Bruges (Belgium) ESPHM 2013 Edinburgh (United Kingdom) ESPHM 2013 Edinburgh (United Kingdom) ESPHM 2014 Sorrento (Italy) ESPHM 2015 Nantes (France) ESPHM 2015 Nantes (France) ESPHM 2016 Dublin (Ireland) ESPHM 2017 Prague (Czech Republic) ESPHM 2018 Barcelona (Spain) ESPHM 2019 Utrecht (The Netherlands)

In 2020, due to the SARS-CoV-2 pandemic, the annual congress could not be organized and was postponed to 2021 when the ESPHM 2020+1 was jointly organized by the European College of Porcine Health Management (ECPHM) that further engaged outstanding European pig practitioners (Veterinary Practitioner Council, VPC) and a Local Organizing Committee (LOC). However, the situation regarding the SARS-CoV-2 pandemic did not allow to organize an on-site event and the physical meeting was substituted by an online event.

By means of this organizational formula, the ESPHM has been held so far in various European Countries. The 13<sup>th</sup> edition will be held in 2022 in Budapest (Hungary) and is jointly organized by the European College of Porcine Health Management (ECPHM), a renewed council of European pig practitioners (Veterinary Practitioner Council, VPC) and the Local Organizing Committee (LOC).

The symposium philosophy consists of mounting a sound program, with cutting-edge scientifictechnical 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, posters and flash talks. 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 the ECPHM are organized within the program of the symposium, and facilitate that the critical mass of the college can join together once a year.



www.porcinehealthmanagement.biomedcentral.com

Porcine Health Management (PHM) is an open access peer-reviewed journal that aims to publish relevant, novel and revised information regarding all aspects of 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 **Paolo Martelli** (University of Parma, Italy) and **Joaquim Segalés** (Universitat Autònoma de Barcelona and CReSA-IRTA, Spain).

PHM published a total of 62 articles in 2021, reflecting an overall growth trend for the journal in recent years. The journal has been publishing since 2015, and is now indexed in different databases, including MedLine (PubMed) and, more recently, Clarivate's Web of Science. PHM got its first Impact Factor in 2020 (2.190), and in 2021 the Impact Factor increased to 3.042, maintaining the journal's rank in the first quartile of the Veterinary Sciences category. The journal also continues to maintain a fast turnaround time for authors of nearly 90 days for accepted manuscripts. Articles now collectively receive well over 100,000 unique views by readers per year. A great achievement for a young journal like PHM!

Please use the online submission system to submit your manuscript. For all enquiries about the journal, technical issues, payment of article processing 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 colour illustrations and moving pictures, etc.
- Promotion and press coverage / Articles published in PHM are included in article alerts and regular email updates.
- Copyright / Authors of articles published in PHM retain the copyright of their articles and are free to reproduce and disseminate their work.



# SPONSORS AND PARTNERS

# **ACKNOWLEDGEMENT OF PARTNERS**





# **ACKNOWLEDGEMENT OF PARTNERS**

# **OTHER SPONSORS**











# **MEDIA PARTNERS**





# **GOLD SPONSORS**

### **BOEHRINGER INGELHEIM**

The lives of animals and humans are interconnected in deep and complex ways. We know that when animals are healthy, humans are healthier too. Across the globe, our 9,700 employees are dedicated to delivering value through innovation, thus enhancing the well-being of both.

Respect for animals, humans and the environment is at the heart of what we do. We develop solutions and provide services to protect animals from disease and pain. We support our customers in taking care of the health of their animals and protect our communities against life- and society-threatening diseases.

Boehringer Ingelheim Animal Health is the second largest animal health business in the world, with net sales of 4.1 billion euros in 2020 and presence in more than 150 countries. For more information visit: <u>www.boehringer-ingelheim.com/animalhealth/overview</u>

# **CEVA SANTE ANIMALE**

A research-driven global animal health company, we have been helping veterinary professionals and those who look after animals all around the world to reach far beyond animal health and welfare.

We're truly global, based in 46 countries and working across more than 110. We have 13 R&D centers, 26 production sites and more than 6000 employees worldwide.

Ceva's innovative health solutions include products, equipment, training, technical support, data analysis and specialized services to ensure their optimal use.

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.

Ceva, as a gold Sponsor at ESPHM 2022 is taking the opportunity to communicate the strength in SW vaccines in Europe, being 3<sup>rd</sup> in the SW biologicals ranking and present the Ceva Lung Program, our exclusive tool to monitor PRDC (Porcine Respiratory Disease Complex) problems.

=>For more information, please come and visit us on our booth #9





# **GOLD SPONSORS**

## CHR. HANSEN

Chr. Hansen A/S was founded in 1874 by the Danish pharmacist Christian Ditlev Ammentorp Hansen. Since then, Chr. Hansen has continued to revolutionize and set the standards for the manufacture of microbial products. We believe that microbial challenges require microbial solutions.

With that in mind, we are the owner of one of the world's largest commercial collections of bacteria, with around 40,000 strains.

The company goal is to improve food, health, and productivity for a sustainable future. Being a purpose-led company with a technology platform that can both help our planet and tackle societal challenges also comes with a great responsibility to do well by doing good.

Chr. Hansen has supplied live probiotic bacterial solutions to the livestock production industry since the initial introduction of those tools to the market.

Our strains and products are the outcome of rigorous science-based research and their benefits are among the best proven and documented in the industry.

The search for a beneficial strain starts in our labs in Hørsholm, Denmark. At Chr. Hansen, we continuously build and expand our strain library with strains from around the world sourced from animals, soils, feeds, plants and food. We have over 28,000 strains in our growing collection and access to thousands more through our partnerships.

### **HIPRA**

HIPRA is a biotechnological pharmaceutical company focused on prevention for animal and human health, with a broad range of highly innovative vaccines. With its claim "Building immunity for a healthier world", HIPRA affirms its commitment to contributing with solutions that improve world health.

HIPRA has a solid international presence in more than 40 countries, with its own subsidiaries, 11 diagnostic centres, and 6 production centres strategically located in Europe (Spain) and America (Brazil).

Moreover, its extensive international distribution network keeps open marketing channels with nearly 100 other countries, thereby covering the 5 continents.

Research and Development constitute the core of its knowledge. HIPRA dedicates 10% of its annual turnover to R&D activities that concentrate on the creation and application of the latest scientific advances to the development of the highest quality innovative vaccines. To give added value to its vaccination experience, the company also develops medical devices and traceability services.

HIPRA performs and monitors all the production stages of its services and biological products in its facilities, which are equipped with the latest technological advances. HIPRA is the company that has launched the most biotech vaccines in the last 10 years, with a total of 22 vaccines.

HIPRA is ranked 6<sup>th</sup> of the global leaders in the veterinary industry developing vaccines for Animal Health.

CHR\_HANSEN

Improving food & health

### HIPRA

# **GOLD SPONSORS**

### **KEMIN**

As the world's population continues to grow, the demand for protein soars. Kemin is dedicated to developing ingredients that help producers raise healthy livestock and poultry. We offer the most comprehensive portfolio of high-quality and science-based- services and solutions. Our nutritional ingredients and vaccines proactively address bacterial, viral, parasitic, as well as toxic challenges for a profitable preventive strategy while committing to responsible use of medicines. Our solutions are backed by a team of experts, as well as rigorous quality and safety standards, to ensure our customers get the most out of every product. In this way, we strengthen animals and foster a healthy and sustainable business for you – our customers.

### MSD ANIMAL HEALTH

For over 130 years, MSD has been inventing for life, bringing forward medicines and vaccines for many of the world's most challenging diseases. MSD Animal Health, a division of Merck & Co., Inc., Kenilworth, N.J., USA, is the global animal health business unit of MSD. Through its commitment to The Science of Healthier Animals®, MSD Animal Health offers veterinarians, farmers, pet owners and governments one of the widest ranges of veterinary pharmaceuticals, vaccines and health management solutions and services as well as an extensive suite of connected technology that includes identification, traceability and monitoring products. MSD Animal Health is dedicated to preserving and improving the health, well-being and performance of animals and the people who care for them. It invests extensively in dynamic and comprehensive R&D resources and a modern, global supply chain. MSD Animal Health is present in more than 50 countries, while its products are available in some 150 markets. For more information, visit www. msd-animal-health.com and connect with us on LinkedIn <u>www.linkedin.com/</u> <u>showcase/msd-animal-health</u> and Twitter <u>www.twitter.com/msdanimalhealth</u>.

### PHARMACOSMOS

At Pharmacosmos, we are specialists in iron therapy. We develop, manufacture and market medicines for the treatment of iron deficiency anaemia in humans and animals. We are furthermore specialists in developing and producing advanced carbohydrates for pharmaceutical and technical uses. We are a family owned company during three generations and have our headquarters in Holbæk, Denmark and affiliates in the US, China, UK, Ireland, Germany, Sweden and Norway. We have grown considerably over the past several years and are at present more than 475 people working with all aspects of a fully integrated pharmaceutical company.

Approved by health authorities in Asia, the EU and by FDA in the USA and distributed in more than 45 countries, Uniferon® is the worldwide leading injectable iron brand for prevention and treatment of iron deficiency anaemia in piglets. Every second, every day, about 15 piglets are injected with our product





#### PHARMACOSMOS

# **GOLD SPONSORS**

### **TROUW NUTRITION**

Trouw Nutrition, Nutreco's livestock feed business line, is a global leader in sciencebased nutritional solutions for animals. We have a 90-year history of developing innovative feed products and more sustainable ways of raising healthy farm and companion animals. With a presence in 105 countries and 22 manufacturing plants, we are a one-stop-shop for feed specialities, feed additives, premixes, nutritional models and customised, integrated services. We are everywhere farmers and home-mixers, feed producers, integrators and distributors need us to be. Animal nutrition and good farm management have the power to transform our industry and even our planet. To solve the challenges facing our feed-tofood chain, Trouw Nutrition attracts the smartest minds. We have a dedicated team of 8,300 people and a global network to help our customers feed the future. Our global brands include LifeStart, NutriOpt, Milkiwean, Gestawean, ChickCare, Maxcare, Sprayfo and Selko.

For more information, please go to www.trouwnutrition.com or follow us on LinkedIn www.linkedin.com/company/trouw-nutrition.

### VETOQUINOL

Vetoquinol is a leading global animal health company that supplies drugs and non-medicinal products for the livestock (cattle and pigs) and pet (dogs and cats) markets. As an independent pure player, Vetoquinol designs, develops and sells veterinary drugs and non-medicinal products in Europe, the Americas and the Asia Pacific region. Since its foundation in 1933, Vetoquinol has been pursuing a strategy combining innovation with geographical diversification. The Group's hybrid growth is driven by the reinforcement of its product portfolio coupled with acquisitions in high potential growth markets.

# ZOETIS

As the world's leading animal health company, we are driven by a singular purpose: to nurture our world and humankind by advancing care for animals. After 70 years innovating ways to predict, prevent, detect, and treat animal illness, we continue to stand by those raising and caring for animals worldwide. We serve veterinarians, livestock producers and people who raise and care for farm animals, helping to meet the growing demand for animal derived foods.

Zoetis provides numerous health and wellness products and services for pigs. Our experts work with swine producers and veterinarians to help them make informed decisions to produce safe, high-quality pork. Our porcine products include the vaccines: CircoMax® Myco – for broader coverage against PCV2 (includes two PCV2 genotypes combined with Mycoplasma); Suvaxyn® PRRS – PPRS protection for sows, gilts and piglets from 1 day old; Draxxin® – a single dose for full treatment and control of respiratory disease; and Improvac® – to manage boar taint, replacing physical castration, and to suppress ovarian activity and oestrus in gilts intended for market. We also offer comprehensive education and training to those who work directly with pigs or supervise pig caregivers. In 2021, we generated \$7.8 billion with 12,100 colleagues.







# **SILVER SPONSORS**

### HENKE SASS WOLF

Henke Sass Wolf is one of the leading manufacturers of high quality, durable and reliable application and injection systems. The HSW products are innovative, userfriendly and especially designed for their intended application. To ensure easy and gentle treatment of the animals and economic and safe work conditions for the user, HSW presents among many other new developments and innovations: EPIG® – The device replaces conventional needle vaccination, ensuring smooth and painless needle-free intramuscular injections of 1 or 2 ml, with low noise level, direct feedback for the user through LED alerts, as well as data capture and transfer, to improve the experience for both the pig and the operator. More information: www.henkesasswolf.de

Inquiries: stefan.knefel@henkesasswolf.de

# THERMO FISHER SCIENTIFIC

Thermo Fisher Scientific is the world leader in serving science. Customers worldwide trust our tools, services and solutions to help them accelerate innovation and enhance productivity. Together, we are making advancements that make a real difference. We do that by providing an unmatched combination of innovative technologies, purchasing convenience, and comprehensive support through product and service brands that include Thermo Scientific, Applied Biosystems, Invitrogen, Fisher Scientific and Unity Lab Services.

Our Mission is to enable our customers to make the world healthier, cleaner and safer.

# **TOPIGS NORSVIN**

Topigs Norsvin is the leading swine genetics company renowned for its innovative genetic solutions for cost-efficient pig production.

Research, innovation and fast dissemination of genetic progress are cornerstones of our company. We are committed to help our customers to be successful in terms of production efficiency, meat quality, animal robustness and healthy, high productivity. Thermo Fisher SCIENTIFIC





# **BRONZE SPONSORS**

# EXOPOL

Exopol is a veterinary diagnostic company with almost 30 years of history, currently holding a leadership position in Spain. Exopol is strategically located in the region with the highest pig production in Spain and therefore in Europe. Thanks to the years of offering quality diagnostics services to our customers, we have increased our capacity to produce autovaccines and qPCR kits, of which we have an almost unrivalled portfolio.

We have also experienced significant growth in the last 2 years, allowing us to diversify our offerings, expand our work to multiple species and further strengthen our R&D.

# **ROYAL GD**

Teaming up for animal health, in the interest of animals, their owners and society at large. Since our foundation in 1919 that has been the mission for which we stand at Royal GD. Every day we work innovatively on the health of farm animals and companion animals. We own one of the largest veterinary laboratories in the world. GD employs a team of veterinarians, specialists and scientists who conduct practical research, develop programmes for animal disease control and provide training and consultancy sessions. The combination of diagnostics and animal health expertise is what makes GD 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.

# GENIA

With 75 years of experience, Genia is a French manufacturer of equipment for veterinarians and pharmaceutical companies. Genia's DNA is based on innovation, quality and proximity to animal health professionals. Our R&D teams are available to design and create taylor-made, customized equipment for all of your projects.

# **IMV IMAGING**

IMV imaging, an IMV Technologies company.

IMV imaging has over 35 years' experience in providing cutting edge imaging technology to the veterinary market.

All of our equipment is designed and manufactured in-house or sourced from the world's leading healthcare and imaging providers. We are specialists in veterinary imaging – ultrasound, X-ray, CT, MRI and PACS. Whatever the species, small animal, equine and farm animals, we can help.

Together with IMV Technologies, we can support the entire reproduction cycle on a swine farm from semen collection to pregnancy confirmation.



exopol





génia

# **BRONZE SPONSORS**

### MAGAPOR

With over 30 years of experience, at Magapor we are specialists in swine reproduction thanks to our exclusive dedication to the design, manufacture and distribution of the technology necessary for artificial insemination in the swine sector.

Another of Magapor's fundamental strenghts is its clear commitment to R+D+I. Thanks to our research work, we also look for new solutions to present and future problems that our customers may need. In addition, we have a great technical service available to our customers.

At Magapor we are committed to our customers by helping them throughout the process and, therefore, we are proud to be their trustworthy technological partner.

# MEDI NOVA

Established in 1997, Medi Nova is today one of the world's leading manufacturer of solutions for swine artificial insemination that has made an impact on the world-wide market with Italian products renowned for innovation and quality.

Thanks to continuous investment in R&D activities and development of collaborations with universities and research centers Medi Nova constantly formulate and produce latest generation swine semen extenders.

Medi Nova offers farmers, producers, genetic companies and artificial insemination centres one of the widest ranges of top quality products related to swine reproduction.

# VETIQO

Vetiqo's innovative simulators make the unique combination of practical teaching and animal welfare possible! Our models are used in training veterinarians, farmers and veterinary technicians as well as in experimental animal science. In our pig product line we currently have 2 simulators for stress-free training of

handling and invasive skills available. CASTRO the piglet, enables the lifelike training of first week skills like surgical castration, i.m. injection and handling. With WEANY, a 9 kg weaner pig, blood sampling from the vena cava, intracardiac injections, i.m. injections and the surgical castration can be trained.









medi<sup>(</sup>nova

# **PROGRAMME AT A GLANCE**

# Wednesday, May 11

	PÁTRIA HALL	BARTÓK ROOM
11.00 – 13.00	Registrations	
13.00 - 13.30	Welcome & Opening	
13.30 - 15.00	Keynote Session HOW TO DEAL WITH LARGE CRISIS?	
15.00 - 15.30	Coffee break & Poster viewing	
15.30 – 17.30	<b>Parallel Session</b> Herd Health Management & Economy	Parallel Session Resident Session
17.40 - 18.40		ECPHM Annual General Meeting Diplomates and Residents only
18.00 - 19.30	Welcome Reception	

# Thursday, May 12

	PÁTRIA HALL	BARTÓK ROOM
8.30 - 10.00	Keynote Session ERADICATION OF INFECTIOUS DISEASES: THE PRRS EXAMPLE	
10.00 - 10.30	Coffee break & Poster viewing	
10.30 - 12.30	<b>Parallel Session</b> Viral Diseases	Parallel Session Veterinary Public Health
12.30 - 13.30	Lunch & Poster viewing	
13.30 - 15.00	Keynote Session HEALTHY PIGS, HEALTHY HUMANS	
15.00 - 16.20	Parallel Session Flash Talks incl. PHM Journal presentation	Parallel Session Bacterial Diseases I
16.20 - 16.40	Coffee break & Poster viewing	
16.40 - 18.00	<b>Parallel Session</b> Immunology & Vaccinology	Parallel Session Bacterial Diseases II
19.30 - 23.30	Farewell Dinner	

# Friday, May 13

	PÁTRIA HALL	BARTÓK ROOM
8.30 - 10.00	Keynote Session SUSTAINABLE PIG PRODUCTION	
10.00 - 10.30	Coffee break & Poster viewing	
10.30 - 12.30	Parallel Session Welfare & Nutrition	Parallel Session Reproduction
12.30 - 13.00	Closing Ceremony	

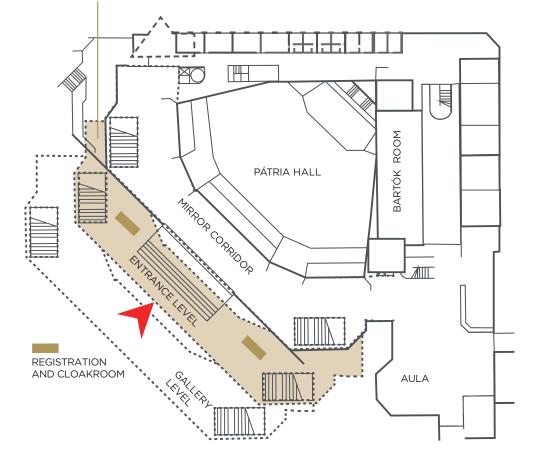


# **FLOOR PLANS**

FORTUNA ROOM SLIDE CENTRE

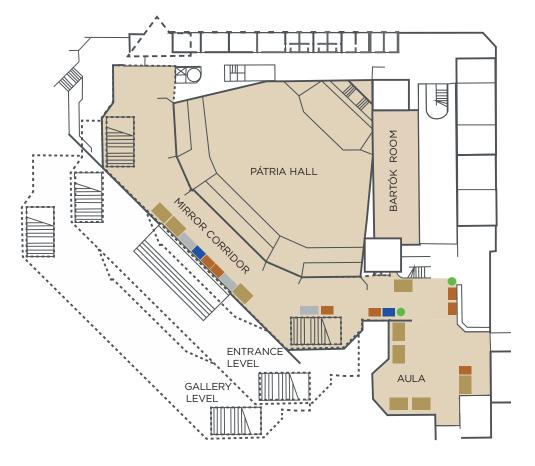
Entrance Level (Level 1)

REGISTRATION AREA CLOAKROOM SLIDE CENTRE



Ground Floor (Level 0)

MEETING ROOMS EXHIBITION AREA CATERING AREA



# **FLOOR PLANS**

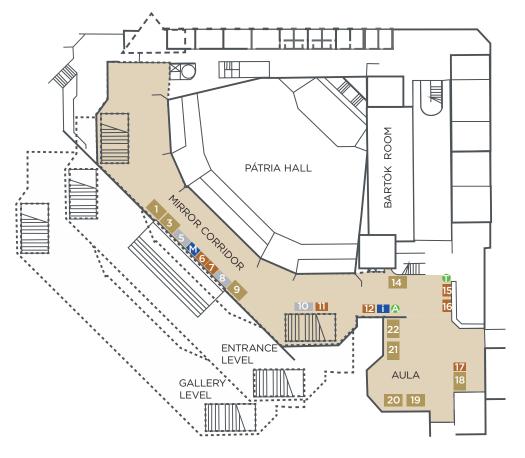
### **Exhibition Area**

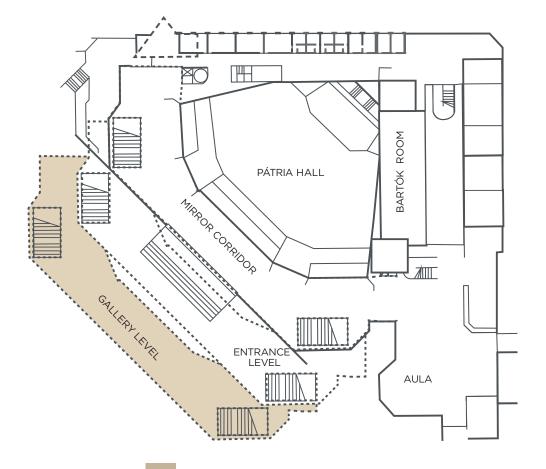
(Level 0)

- 1 HIPRA
- 3 TROUW NUTRITION
- 5 THERMO FISHER SCIENTIFIC
- 6 IMV IMAGING
- 7 MAGAPOR
- 8 TOPIGS NORSVIN
- 9 CEVA SANTE ANIMALE
- 10 HENKE SASS WOLF
- 11 ROYAL GD
- 12 VETIQO
- 14 KEMIN
- 15 MEDI NOVA
- 16 EXOPOL
- 17 GENIA
- 18 MSD ANIMAL HEALTH
- 19 ZOETIS
- 20 CHR. HANSEN
- 21 BOEHRINGER INGELHEIM
- 22 PHARMACOSMOS
- APHA SCIENTIFIC
- **TETRACORE**
- M MEDIA PARTNERS
  - ECPHM PHM ESPHM 2023

### Gallery Level (Level 2)

E-POSTER AREA CHILL-OUT AREA CATERING AREA







# **KEYNOTE LECTURES**



# **SESSION: HOW TO DEAL WITH LARGE CRISIS?**



# Impact of great crisis on the pig sector

# WEDNESDAY, MAY 11 13.30-15.00

**PROF. JAMES F. LOWE** 

#### **Biosketch**

Dr. Lowe is an educator, advisor, researcher, and farmer based in Illinois. He is a managing member of a Production Animal Consultation, LLC and is an Associate Professor and Director of the i-Learning Center in the College of Veterinary Medicine at the University of Illinois. He holds a DVM and MS from the University of Illinois and spent most of the last 27 years working in and with red meat production systems in the US and internationally.

#### Abstract

It seems that the world lurches from one crisis to the next. Unfortunately, the pig sector has not been immune from crises: disease outbreaks, low market prices, high grain costs, and labor shortages, to name a few. Why do these crises keep happening? Are they under our control? Has the pig sector brought crises on itself? Are there alternative business models that would keep us from moving from one crisis to another? This presentation explores these questions by investigating recent crises in the pig sector. Specifically, how industry structure both promoted an epidemic of PEDV in the United States and led to the most profitable year on record for U.S. pork producers, how COVID has impacted production and harvest operations, animal and human wellbeing, and profitability of the pig sector, and how bottlenecks in the market, both foreseen and unforeseen, have impacted the pork sector. The interactions between the underlying market, engineering, and human factors are explored in each example. Lessons from past crises suggest that redesigning business models to increase supply chain coordination, decrease operational interdependence, and shift measurement systems from lagging to prospective indicators would decrease the frequency and severity of crises in the pig sector.



# **SESSION: HOW TO DEAL WITH LARGE CRISIS?**



# **ASF** successful eradication stories

### WEDNESDAY, MAY 11 13.30-15.00

### **DR. PETR ŠATRÁN**

#### **Biosketch**

#### **Academic Career**

1988 – 1993 Veterinary medicine doctor, University of Veterinary and Pharmaceutical Sciences Brno, Faculty of veterinary medicine

1999 – 2003 Ph.D. Graduate in the area of Veterinary epidemiology and infectious diseases. Specialization for microbiology, immunology and veterinary epidemiology. University of Veterinary and Pharmaceutical Sciences Brno, Faculty of veterinary medicine.

2005 Attestation I. degree – general approach, Veterinary epidemiology and infection disease, Food hygiene, EU and national Legislation. State veterinary administration in cooperation with University of Veterinary and Pharmaceutical Sciences Brno

2006 Attestation II. degree – specialization in infectious diseases and epidemiology Veterinary epidemiology, Communicable disease, CR and EU Legislative in relation to Animal Health. State veterinary administration in cooperation with University of Veterinary and Pharmaceutical Sciences Brno

#### **Professional Experience**

Since 2017 State Veterinary Administration of the Czech Republic, Director of Veterinary Section and Deputy CVO 2015 – 2017 Permanent Representation of the Czech Republic on EU, Brussels

2004 – 2015 State Veterinary Administration of the Czech Republic, Head of animal health and welfare department 2001 – 2004 Lecturer at University of Veterinary and Pharmaceutical Sciences Brno, Department of infectious diseases and veterinary epidemiology.

1997 – 2000 Head of the laboratory of bacterial respiratory infections of livestock at Veterinary Research Institute, Brno 1994 – 1996 Private veterinarian

#### Abstract

Experience with eradication of African swine fever from wild boar population.

The Czech Republic detected its first occurrence of African Swine Fever virus (ASFv) after passive surveillance that started in 2014. ASFv was detected in two wild boars, which were found dead on 21 and 22 June 2017 in the cadastral territory Příluky u Zlína, Zlín District, Zlín Region. The National Reference Laboratory for ASF, the State Veterinary Institute Jihlava, confirmed the positive finding of ASFv on 26 June 2017. Since 15 April 2019 there were 230 cases of ASF registered in wild boar involving 212 cases of wild boar found dead and 18 cases of hunted wild boar. The last ASF positive cases in wild boars were detected on 8 February 2018 in hunted wild boar and on 15 April 2018 in wild boar found dead – however, these carcasses were decomposed. All positive cases were detected in a small area in the Zlín District. In domestic pigs, no outbreak of ASF was detected in the Czech Republic. There are currently no positive cases of ASF within the territory of the Czech Republic. Eradication was successful mainly due to the level of surveillance allowed early detection of the first case of ASF, the veterinary measures prevented the spread of ASF in the wild boar population and a significant reduction (almost complete depopulation) of the number of pigs in the area with ASF positive cases. the veterinary measures preventing the introduction of ASF into domestic pig holdings.

# SESSION: ERADICATION OF INFECTIOUS DISEASES: THE PRRS EXAMPLE



# How to define an eradication program?

# THURSDAY, MAY 12 08.30-10.00

#### **PROF. HEIKO NATHUES**

#### **Biosketch**

Prof. Dr. med. vet. Heiko Nathues graduated from the University of Veterinary Medicine in Hannover, Germany in 2004. He spent some month in a specialised pig & poultry practice in Northern Germany.

From late 2004 until 2011 he was employed at the Field Station for Epidemiology of the University of Veterinary Medicine Hannover in Bakum, Germany, where he also obtained his Dr. med. vet. in 2007 and his PhD in 2011. Awarded with a Marie-Curie Intra-European-Fellowship he joined the Veterinary Epidemiology, Economics and Public Health Group of the Royal Veterinary College in London, from 2011 to 2013. He also obtained a Postgraduate Certificate in Veterinary Education.

In 2013 he finalized his habilitation and received the venia legendi for 'Pig diseases and population medicine' from the University of Veterinary Medicine Hannover. Since the same year, he is a professor at the Vetsuisse Faculty of the University of Bern, Switzerland, where he is heading the clinic for swine. His primary areas of interest are diagnosis, epidemiology and control of porcine virus- and mycoplasmal-diseases.

Prof. Nathues is a Diplomate of the European College of Porcine Health Management (ECPHM), certified as EBVS™ European Veterinary Specialist of Porcine Health Management and currently the President of the ECPHM. Since April 2017 he is representing the PHM college in the EBVS, and since April 2021 he is the Vice-President of the EBVS and a member of the Executive Committee.

#### Abstract

In recent years, the eradication of infectious production diseases in pig farms has become more and more popular. This is partially based on good experiences that were made elsewhere and have been published in papers or presented in conferences. However, thorough understanding of the epidemiology of the infection in question is of utmost importance and is not the same in every individual case. An attempt to eradicate a disease from one herd might be successful, whereby the same protocol does not lead to success in another herd, region, or country. Before starting any eradication program, a spatial and socioeconomic analysis should highlight the feasibility and the monetary benefit. A partial budget analysis supports an informed decision regarding a particular eradication concept that is most applicable to the individual herd. Noteworthy, an appropriate sampling strategy being necessary to

continuously control the success of the eradication afterwards should be designed beforehand. Otherwise, farm owners might be upset about the cost of maintaining and controlling the new specific-pathogen-free status of their herd. Once the eradication has been achieved, only monitoring programs with high sensitivity will truly evidence the accomplishment and build up trust among business partners. Inadequate sampling schemes, convenience-driven sampling sites, and 'lowbudget-testing' increase the risk of false negative results and extended periods to detect breakdowns, i.e. re-infection of the herd. Summarizing all mentioned necessities for a successful eradication of an infectious production diseases in a given pig herd, it becomes obvious that tailor-made programs are required on herd level and, in case this is favored, on regional and national level.



# SESSION: ERADICATION OF INFECTIOUS DISEASES: THE PRRS EXAMPLE



The experience of the National PRRS eradication program in Hungary

THURSDAY, MAY 12 08.30-10.00

# **DR. ISTVÁN SZABÓ**

#### **Biosketch**

István Szabó DVM, PhD graduated as a veterinarian in 1976, and pstgratueted as Specialist in Veterinary Laboratory (bacteriology and serology) from the University of Veterinary Medicine Budapest. Fifteen years experience in everyday livestock veterinary practice (including swine, cattle and geese). During this period led a farm owned laboratory making bacteriological, virological, food hygiene, feed content and radioimmunoassay test for monitoring the animal health status, and productivity of farm animals. 7 years as a lecturer at the College of Animal Husbandry at Hódmezővásárhely (Hungary). 20 years experience with animal health product industry, working as country manager (in Hungary and Russia) and technical director of Northern and Central European Region of Pfizer Animal Health. 16 year experience in execution and manage of animal disease eradication program (Aujeszky disease, PRRS) at country level. Currently is member of the National PRRS Eradication Comitte of Hungary, founding member of the Hungarian Association for Porcine Health Management.

#### Abstract

Porcine reproductive and respiratory syndrome (PRRS) is an infectious disease with worldwide distribution leading currently to the highest economic losses in pig production, some of them are considered more significant than damages caused by ASP. In the EU Member States, the prevalence of PRRS infections is high.

Therefore, in Hungary -for the first time among the EU Member States-, a National PRRS Eradication Programme was introduced in order to reach a more efficient, economic and competitive international market position. The veterinary authorities carried out the implementation of the programme with the consent and continuous support and monitoring by the organizations of pig industry and scientific committee. The EU also approved the program, but the legal obligations placed a burden on Hungarian producers in addition to complying with EU competition rules.

The PRRS eradication programme in Hungary is based on the territorial principle, and it is obligatory for each swine farm.

In Hungary large fattening farms operate as all-in/ all-out or continuous flow systems. The large-scale breeding herds are predominantly farrow-to-finish types, despite the fact that more and more multi-site farms have already been established in recent years. Each PRRS infected large-scale farm had to have a unit-adapted eradication plan against the disease, including external-and internal biosecurity processes, vaccination etc. PRRS eradication was carried out mainly by the depopulation-repopulation method. Some farms used the test and removal method for eradication.

During the implementation of the program, we developed similarity network analysis of thousands of PRRSV ORF5 and ORF7 sequences to monitor the spread of the disease.

To reach the goal of PRRS eradication it was crucial to render each fattening unit free of this disease, since fattening units play a significant role in spreading the virus all over the country. As the eradication progressed over the years, the introducing of infected fattening pigs was restricted. Because of these measures, by the end of 2018, Hungarian large-scale fattening farms became free of PRRS.

Although its significance has decreased in recent decades, 20% of the Hungarian pig population is still kept on small-scale (backyard) farms (< 100 animals). As a result of the programme, PRRS-free status of the small-scale herds was achieved by the end of 2015, and this status was maintained in 2016–2021.

By 31 December 2021, all breeding pigs of large scalefarms in Hungary had become free from PRRS wild virus. By 31 March 2022, the total pig population of the country, including all fatteners, will reach this status.



# **SESSION: HEALTHY PIGS, HEALTHY HUMANS**



# Zoonotic threat: the mink experience

### THURSDAY, MAY 12 13.30-15.00

#### **PROF. TIJS TOBIAS**

#### **Biosketch**

Tijs Tobias (DVM, PhD, MSc, Dipl ECPHM) is an assistant professor in porcine health management at Utrecht University and a registered veterinary epidemiologist. His research focuses on epidemiology of infectious diseases as well as animal welfare of pigs. Dr. Tobias is involved in national and European projects regarding e.g. Hepatitis E virus and Influenza virus in pigs and serves as an expert for national and European bodies regarding pig welfare. Tijs Tobias served as secretary of the ECPHM from 2018-2021. He is a member of the Dutch Animal Welfare committee for Notifiable disease control.

#### Abstract

In the early phase of the SARS-CoV-2 pandemic, spring 2020, SARS-CoV-2 was identified as cause of disease and mortality in farmed minks. Initially, SARS-CoV-2 was first discovered on mink farms in the Netherlands and soon after similar observations were made worldwide. Upon confirmation of transmission of SARS-CoV-2 from farmed mink to humans in May 2020, it was decided to cull the mink on infected farms. During summer of 2020, enforced infection prevention measures in remaining mink farms proved to be insufficient as new cases kept emerging. End of august it was advised to bring forward the total ban on mink farming in the Netherlands from 2023 and the Dutch government decided as such based on this advice. From end of 2020, all farmed mink are extinct in the Netherlands. The operations in Dutch mink farms have come to an abrupt ending.

The potential of infection of SARS-CoV-2 in pigs has been studied and published rapidly and the findings are reassuring, so far. However, SARS-CoV-2 is evolving and validity of findings may expire upon findings of new variants of concern and also potentially in the case of finding "disease X" in pig farming. The lessons learned and the responsibility of the veterinarian on pig farms will be explored.



# **SESSION: HEALTHY PIGS, HEALTHY HUMANS**



The growing issue of influenza infections in pigs and the related zoonotic risk

THURSDAY, MAY 12 13.30-15.00

**PROF. TIMM HARDER** 

#### **Biosketch**

Timm Harder, Germany, is a virologist with a veterinary background and broad interest in influenza viruses particularly of avian and porcine hosts. Study fields range from diagnostic improvements, molecular epidemiology, and pathogenicity, to applied preventive measures and regulatory issues. He is head of the national avian influenza reference laboratory at Friedrich-Loeffler-Institute, Isle of Riems, Germany. The laboratory is an active member in international networks of the World Health Organization for Animal Health (O.I.E., OFFLU) and the Food and Agriculture Organization (FAO) of the UN for research and diagnosis on animal influenza.

#### Abstract

Swine influenza caused by influenza A viruses (IAV) directly affects respiratory health and indirectly impair reproduction rates which leads to economically tangible production losses. In Europe, the number of pigs raised has remained fairly stable over the last decade. However, production systems have intensified featuring fewer holdings but, in turn, increased breeding herd size and more piglets per litter. This seems to foster swine IAV (swIAV) infections with respect to the entrenchment within and spread between holdings in Europe.

The most recent human pandemic of 2009 has highlighted the zoonotic and reverse zoonotic potential of swIAVs. Pigs constitute a mixing vessel of influenza A viruses from different species including avian and human hosts. It should be noted that, since 1918, all human pandemic influenza viruses with the sole exception of the H2N2 virus of 1958 have been transmitted in a reverse zoonotic mode from human into swine populations. Swine populations acted as reservoirs of these viruses but also proved to be reassortment machines with IAV of other, particularly avian hosts. Pig and poultry production areas in Europe are largely overlapping. As a result, new variants of swIAV containing zoonotic components continue to be detected. This increases risks that such components might finally reassort into viruses with pandemic potential.

Disease management of swine influenza is difficult and relies on biosecurity and vaccination.

A few commercial vaccines are licensed for swIAV in Europe and all are based on inactivated, adjuvanted whole virus preparations. Recently discovered and widely proliferating forms of selfsustaining (holding-endemic) modes of swIAV infections in large swine holdings challenge these preventive concepts by generating vaccineescape mutants in rolling circles of infection. Also in light of the COVID pandemic, an infectologically safe livestock production must be secured. This task is further complicated by conflicting goals of the producers', citizens' and consumers' demands.

Here, a review of the scientific literature on zoonotic aspects of swine influenza is presented and related issues of swine production in Europe are pinpointed. Key features of future research to secure and improve pig production are introduced.



# **SESSION: SUSTAINABLE PIG PRODUCTION**



# Significant aspects of marketing pigs & pork in the near and far future

FRIDAY, MAY 13 08.30-10.00

### **DR. JÖRG ALTEMEIER**

#### **Biosketch**

Education: Veterinarian and chemist.

After completing his studies, he first worked as an assistant at the University of Veterinary Medicine Hannover, then at a private owned Institute in Hanover and at SGS.

Today Head of the Animal Welfare and Animal Health Unit of the Tönnies Group.

Managing Director of Health Analytics GmbH, an accredited laboratory company owned by the Group. Member of animal welfare and animal health-relevant committees, e.g. EU Animal Welfare Platform, Round tables animal welfare, ASP expert commissions, Zoonotic Advisory Board NRW etc.

#### Abstract

According to the food safety standard of the german Association "QS Qualität und Sicherheit GmbH" (QS Quality and Safety) pigs from certified farms are being sampled and serologically tested after being slaughtered.

Based on the lab results the farm is being sorted into one of three classes and receives an information about the coring. The higher the class, the more often antibodies have been detected.

The scoring may have an influence on acceptance, marketing and payment of the pigs and the usability of the pork.

In the first years after the monitoring has been implemented, the percentage of farms being in the worst class has become less and less. But now we observe a slight increasement.

Since a couple of years we have several animal welfare and husbandry related standards and labeling systems in the European Union. The majority of the standards is owned by associations or companies (e.g. NGOs or big food producing companies). In Germany one of the biggest retailers started a husbandry labeling system, consisting of four different levels, which became something like a national standard in the meantime. On EU-level a new animal welfare labeling is being discussed and in Germany the quite new minister for agriculture announced the introduction of a completely new developed, obligatory (!) husbandry labeling system, consisting of four levels.

At the end it must be discussed and clarified for each system, how the farmers will be motivated to invest and produce more costly the food of tomorrow.

In several member states of the EU we have reports about animal welfare violations – either on farm- but also on transport- and slaughtering-level. Most of the time those reports, covering relevant pictures or video sequences, are being published by investigative journalists or animal rights associations. Those reports do not criticize just the involved farms, haulage companies and slaughterhouses, but also the local authorities.

The credibility of those reports and their interpretations may be questionable in some cases, but in some cases not.

The short and long term effects of those reports may range from auditing and banning suppliers to improvements of processes and trainings and, finally, less acceptance of meat products.

At the end the solution can be very simple: dealing with the animals ethically and legally perfectly.



# **SESSION: SUSTAINABLE PIG PRODUCTION**



New trends in pig nutrition for future challenges in pig production

FRIDAY, MAY 13 08.30-10.00

#### **DR RICARDO NETO**

#### **Biosketch**

Ricardo Neto is a Doctor of veterinary medicine, graduated from UTAD in Portugal and he worked in specialized pig practice in England for 4 years. After this period in practice he joined the pharmaceutical industry supporting and launching the first PCV2 vaccine in the UK and Ireland and later the first Swine influenza vaccine. Following the pharmaceutical industry he joined the feed additive industry. Throughout his career, he held local, regional and global positions.

Ricardo Neto joined the Animal Nutrition & Health division of Kemin Europe as Technical Service Manager Health Western & Southern Europe to support the intestinal health portfolio.

#### Abstract

Sustainability dates back to the 18<sup>th</sup> century focusing on the management of forest resources. In 2015, the United Nations adopted 17 Sustainable Development Goals, in which pig production plays a key role.

Pig production must be sustainable, and aligned with the goals mentioned before. A sustainable action can be achieved using a triple-bottom-line approach that encompasses three overlapping areas:

- Healthy people
- Healthy planet
- Healthy businesses

The pig industry needs to embrace the One Health concept ensuring the supply of safe meat and using antibiotics responsibly without compromising welfare, contributing to the fight against antibiotic resistance. For a healthy planet, we can look at nutrient sources, and look at practices that impact the environment, the ban of high doses of ZnO for ex. aims at protecting vulnerable aquatic habitats.

The pig industry needs to remain healthy, economically viable and profitable. Strategies to reduce feed costs, improve feed efficiency and reduce waste, which can come from pig mortality and losses during processing. The three points mentioned before: healthy people, planet and businesses are interconnected and cannot be taken separately.

This makes for a significant challenge, but the pig industry has already demonstrated it is adaptable and willing to be part of the change, as shown with the ban of AGP and of high doses of ZnO post weaning). There are nutritional interventions available to support the pig producing industry through these challenging times and ensure we have a sustainable pig business fit and healthy for generations to come.

# GUIDELINES FOR PRESENTERS OF ORAL PRESENTATIONS AND FLASH TALKS

#### **SLIDE CENTRE**

The Slide Centre is located at the entrance level (Fortuna room). The room will be easily identifiable by means of specific signposts.

Speakers are requested to bring their presentation files on a flash drive (USB memory stick) to the Slide Centre at their earliest opportunity but no later than **two hours before** their session starts, or the day before if the presentation is in one of the morning sessions.

All presentations will be stored in the server, connected with all the lecture rooms, and will be projected at the due time.

Please note that the use of your own computer is not possible. All presentations must be downloaded at the Slide Centre 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.

#### **OPENING HOURS OF THE SLIDE CENTRE**

- Wednesday May 11, 2022: 11.00 18.00
- Thursday May 12, 2022: 08.00 18.00
- Friday May 13, 2022: 08.00 12.00

#### TIME RESERVED FOR PRESENTATIONS

#### Oral presentations: 20 minutes

(15 minutes per presentation and 5 minutes of discussion)

#### • Flash Talks: 5 minutes

(3 minutes per presentation and 2 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 programme.

#### **PRESENTATION FORMAT**

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

Supported file types

- Presentation: PPT, PPA, PPTA, PPTX
- 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 recommended to save each file separately and provide it to the technical staff of the Slide Centre for testing, together with the presentation file.







# PROGRAMME WEDNESDAY, MAY 11

11.00	Registrations
PÁTRIA HALL	
13.00 - 13.10	Welcome & Opening Dr. József Földi
13.10 - 13.30	Swine health management in Hungary: trends, successes, challenges Dr. Lajos Bognár PhD, Chief Veterinary Officer
13.30 - 15.00	Keynote Session: HOW TO DEAL WITH LARGE CRISIS? Chaired by Dr. Nicolas Rose and Dr. Adrian Balaban
13.30 - 14.00 14.00 - 14.30	Impact of great crisis on the pig sector, Prof. James F. Lowe ASF successful eradication stories, Dr. Petr Šatrán
14.30 - 15.00	Round table discussion

15.00 - 15.30 Coffee break & Poster viewing

#### PÁTRIA HALL • BARTÓK ROOM

15.30 – 17.30 Parallel Sessions (Oral Presentations)
 Herd Health Management & Economy
 Chaired by Dr. László Búza and Dr. Ida Friis Overgaard
 Resident Session
 Chaired by Dr. Manon Houben and Dr. Magdalena Czaplińska

#### **BARTÓK ROOM**

- 17.40 18.40 ECPHM Annual General Meeting (Diplomates and Residents only)
- 18.00 19.30 Welcome Reception



#### PÁTRIA HALL

#### Herd Health Management & Economy Chaired by Dr. László Búza and Dr. Ida Friis Overgaard

#### **BARTÓK ROOM**

**Resident Session** 

Chaired by Dr. Manon Houben and Dr. Magdalena Czaplińska

15.30-15.50	
HHM-OP-01 PRRSV INFECTION DYNAMIC AND RISK FACTORS IN GROWING PIGS IN MIDWEST US Angulo Jose, Jansen Samantha, Yang My, Rovira Albert, Davis Peter, Zimmerman Jeff, Torremorell Montserrat	RES-OP-01 BRACHYSPIRA PILOSICOLI – NEWS ON ITS GENETIC HETEROGENEITY AND ANTIMICROBIAL SUSCEPTIBILITY Arnold Mirjam, Schmitt Sarah, Collaud Alexandra, Rossano Alexandra, Huebschke Ella, Zeeh Friederike, Nathues Heiko, Perreten Vincent
15.50-	-16.10
HHM-OP-02 CLOSTRIDIUM NOVYI VACCINATION REDUCES SOW MORTALITY IN LATE GESTATION Tolstrup Lola Kathe, Bertelsen Stine, Strunz Anne Mette	<b>RES-OP-02</b> BLEEDING SKIN LESIONS IN GESTATING SOWS - COULD THE STABLE FLY BE THE CAUSE? <u>Schwarz Lukas</u> , Bernreiter-Hofer Tanja, Loncaric Igor, Arnold Mirjam, Voglmayr Thomas, Ladinig Andrea
16.10 -	16.30
HHM-OP-03 CONSTRUCTION OF A PRESCRIPTIVE MODEL TO PROPOSE PERSONALIZED IMPROVEMENT TRACKS TO PIG FARMERS Buchet Arnaud, Daluzeau Laurent, Ivanauskaite Justina, Trestcov Ivan, Tishin Nikita, Riera Bastien, Legaud Jean- Yves, <u>Florian Voisin</u> , Duivon Didier, Chouët Sylvie	<b>RES-OP-03</b> CHALLENGES OF A PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME VIRUS (PRRSV) OUTBREAK – A CASE REPORT <u>Kreutzmann Heinrich</u> , Bünger Moritz, Renzhammer René, Temmel Alois, Brunthaler René, Rümenapf Till, Auer Angelika, Ladinig Andrea
16.30 -	- 16.50
HHM-OP-04 DETECTION RATE OF PATHOGENS ASSOCIATED WITH THE PRDC IN DIFFERENT SPECIMENS (2016-2020) <u>Renzhammer René</u> , Entenfellner Annabell, Auer Angelika, Loncaric Igor, Spergser Joachim, Schwarz Lukas, Ladinig Andrea	<b>RES-OP-04</b> EFFECT OF FLOOR COOLING ON FLOOR TEMPERATURE AND PEN HYGIENE IN A SWEDISH FARM WITH SLAUGHTER PIGS <u>Westin Rebecka</u> , Ehlorsson Carl-Johan, Reneby Amanda, Sannö Axel
16.50 - 17.10	
HHM-OP-05 NOVEL RESILIENCE INDICATORS IN GROWING PIGS Laghouaouta Houda, Pena Romi, Ros-Freixedes Roger, Reixach Josep, Diaz Marta, Estany Joan, Armengol Ramon, Bassols Anna, Fraile Lorenzo	<b>RES-OP-05</b> CASE REPORT: AN OUTBREAK OF RESPIRATORY DISEASE AND SYSTEMIC INFECTION CAUSED BY ACTINOBACILLUS PLEUROPNEUMONIAE SEROVAR 8 IN A NORWEGIAN FARROW- TO-FINISH SPF FARM Maaland Marit Gaastra, Oropeza-Moe Marianne
17.10 - 17.30	
HHM-OP-06 INVESTIGATION OF THE SPREAD OF PRRSV WITHIN LARGE- SCALE, FARROWING-FINISHING SWINE FARMS Szabo Istvan, Molnar Tamas, Buza Laszlo, Makkai Istvan, Polyák Ferenc, Koczkás Máté, Pogácsás Imre, Savoia Luca, Apáti Károly, Bodnár Béla, Lebhardt Károly, Fornyos Kinga, Balint Adam	<b>RES-OP-06</b> A CASE OF SALMONELLA ENTERICA SUBSPECIES ENTERICA SEROVAR CHOLERAESUIS IN A SWEDISH GILTPRODUCING HERD <u>Fjelkner Johanna</u> , Hultén Cecilia, Jacobson Magdalena, Nørregård Erik, Young Beth



# PROGRAMME THURSDAY, MAY 12

#### **PÁTRIA HALL**

- 8.30 10.00 Keynote Session: ERADICATION OF INFECTIOUS DISEASES: THE PRRS EXAMPLE Chaired by Prof. Gyula Balka and Prof. Enric Mateu
- 8.30 9.00 **How to define an eradication program?**, *Prof. Heiko Nathues*
- 9.00 9.30 The experience of the National PRRS eradication program in Hungary, Dr. István Szabó
- 9.30 10.00 Round table discussion
- 10.00 10.30 Coffee break & Poster viewing

#### PÁTRIA HALL • BARTÓK ROOM

- 10.30 12.30 Parallel Sessions (Oral Presentations)
   Viral Diseases
   Chaired by Prof. Gyula Balka and Prof. Joaquim Ségales
   Veterinary Public Health
   Chaired by Dr. Christine Unterweger and Dr. Dražen Hižman
- 12.30 13.30 Lunch & Poster viewing

#### **PÁTRIA HALL**

- 13.30 15.00 Keynote Session: HEALTHY PIGS, HEALTHY HUMANS Chaired by Prof. Arie van Nes and Dr. József Földi
- 13.30 14.00 Zoonotic threat: the mink experience, Prof. Tijs Tobias
- 14.00 14.30 **The growing issue of influenza infections in pigs and the related zoonotic risk**, *Prof. Timm Harder*
- 14.30 15.00 Round table discussion

#### PÁTRIA HALL • BARTÓK ROOM

- 15.00 16.20 Parallel Sessions (Flash Talks and Oral Presentations)
   Flash Talks incl. PHM Journal presentation
   Chaired by Prof. Heiko Nathues and Dr. Tim van Sprang
   Bacterial Diseases I
   Chaired by Prof. Doris Höltig and Dr. Arnaud Lebret
- 16.20 16.40 Coffee break & Poster viewing

#### PÁTRIA HALL • BARTÓK ROOM

16.40 – 18.00 Parallel Sessions (Oral Presentations)
 Immunology & Vaccinology
 Chaired by Prof. Paolo Martelli and Dr. Adél Orosz
 Bacterial Diseases II
 Chaired by Prof. Doris Höltig and Dr. Arnaud Lebret

#### **EUROPA BOAT**

19.30 – 23.30 Farewell Dinner TICKET REQUIRED



#### **PÁTRIA HALL**

**MEASURES** 

Γ

#### **Viral Diseases**

Chaired by Prof. Gyula Balka and Prof. Joaquim Ségales

Bouchet Franck, Normand Valérie, Berton Pauline, Jeusselin Justine, Ardies Cathy, Teixeira-Costa Charlotte, Boulbria Gwénaël, Brissonnier Mathieu, Chevance Celine,

#### **BARTÓK ROOM**

#### **Veterinary Public Health** Chaired by Dr. Christine Unterweger and Dr. Dražen Hižman

10.30 -	- 10.50
VVD-OP-01 ASSESSMENT OF THE RELATIONSHIP BETWEEN BREEDING HERD PRRSV OCCURRENCE AND MANURE PUMPING EVENTS IN THE U.S. <u>Vilalta Carles</u> , Sanhueza Juan, Kikuti Mariana, Picasso Catalina, Corzo Cesar	VPH-OP-01 ULTRA-HIGH PERFORMANCE LIQUID CHROMATOGRAPHY TANDEM MASS SPECTROMETRY (UHPLC-MS/MS) ANALYSIS OF ANTIBIOTICS IN ORAL FLUID AS A FAST SURVEILLANCE SYSTEM Gajda Anna, Nowacka-Kozak Ewelina, Gbylik-Sikorska Małgorzata, <u>Cybulski Piotr</u>
10.50 - 11.10	
VVD-OP-02 ECONOMIC IMPACT OF A PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME (PRRS) STABILIZATION PROGRAM IN A FARROW-TO-FINISH FARM USING MASS VACCINATION WITH A MODIFIED LIVE VACCINE AND STRICT BIOSECURITY	<b>VPH-OP-02</b> FIRST RESULTS OF A WIDE-RANGE MONITORING ON SALMONELLA SEROPREVALENCE IN FATTENERS IN HUNGARY 2021 Révész Tamás, <u>Lillie-Jaschniski Kathrin</u> , Szigeti István

<u>Lebret Arnaud</u>		
11.10 - 11.30		
VVD-OP-03 PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME SURVEILLANCE IN BREEDING HERDS AND NURSERIES USING TONGUE TIPS FROM DEAD ANIMALS Baliellas Jordi, Novell Elena, Tarancón Vicens, Vilalta Carles, Fraile Lorenzo	<b>VPH-OP-03</b> SOUND BASED HEALTH MONITORING PERFORMED BY SOUNDTALKS SIGNIFICANTLY REDUCES THE OVERALL ANTIBIOTIC CONSUMPTION IN NURSERY FACILITIES Rathkjen Poul Henning, Jensen Mette, Kragh Anne, Alonso Carmen	
11.30 - 11.50		
VVD-OP-04 SWINE INFLUENZA VACCINATION IMPAIRMENT IN PIGS WITH MATERNALLY DERIVED ANTIBODIES: FROM EXPERIMENTAL TO IN-SILICO MODELLING EVIDENCE Andraud Mathieu, Hervé Séverine, Gorin Stéphane,	VPH-OP-04 UPDATE ON SLAUGHTER LUNG LESIONS FROM FINISHER PIGS IN GERMANY AND AUSTRIA <u>Cvjetković Vojislav</u> , Dobrokes Branimir, Golacz Kerstin, Lisgara Marina	

Barbier Nicolas, Queguiner Stéphane, Paboeuf Frédéric, Simon Gaëlle, Rose Nicolas

#### 11.50 - 12.10

VVD-OP-05 VIRUCIDAL EFFECT OF VIROCID® DISINFECTANT AGAINST THE AFRICAN SWINE FEVER VIRUS (ASFV) - 3 VALIDATION TRIALS Grab Lawrence, Ledoux Luc, Claeys Elien, Rodriguez-Gonzalez Elisabet

12.10 - 12.30

VVD-OP-06

RESULTS OF AN EPIDEMIOLOGICAL SURVEILLANCE ON INFLUENZA A VIRUSES DETECTED IN FRENCH PIG FARMS FROM 2015 UNTIL 2021

Jardin Agnes, Brilland Sophie, Leneveu Philippe, Lillie-Jaschniski Kathrin

VPH-OP-05 OCCURRENCE OF QUINOLONE NON-SUSCEPTIBLE **ESCHERICHIA** COLI IN FAECAL SAMPLES FROM FLUOROQUINOLONE TREATED AND UNTREATED SOWS Stohler Rebekka, Zurfluh Katrin, Stephan Roger, Sidler Xaver, Kümmerlen Dolf



#### **PÁTRIA HALL**

#### Flash Talks incl. PHM Journal presentation Chaired by Prof. Heiko Nathues and Dr. Tim van Sprang

INTRODUCTION

15.05 - 15.10

15.00 - 15.05

#### FTP-OP-01

DIFFERENCE IN LAWSONIA INTRACELLULARIS BETWEEN BATCHES AND DAYS POST ENTRY MUST BE CONSIDERED WHEN PERFORMING DIAGNOSTICS OF ILEITIS IN FINISHER HERDS

<u>Musse Susanne Leth</u>, Blach Nielsen Gitte, Stege Helle, Rosager Weber Nicolai, Houe Hans

#### 15.10 - 15.15

#### FTP-OP-02

EVALUATION OF THE FAECAL MICROBIOTA OF HEALTHY POST-WEANING PIGS USING 16S RNA SEQUENCING

<u>Klahr Fritz Mikaela</u>, Wallgren Per, Sjölund Marie, Leijon Mikael

15.15 - 15.20

#### FTP-OP-03

SALIVA VS. TONSILLAR SWABBING WITH A NYLON SWAB TO MEASURE ORAL STREPTOCOCCUS SUIS LOAD

15.20 - 15.25

Faba Lluis , Venrooij Kelly, Van Lith Pascal, Litjens Ralph

FTP-OP-04

EFFECT OF THE COMBINATION OF AN IMMUNE MODULATOR AND A NUTRIENT ABSORPTION ENHANCER ON GROWTH PERFORMANCE AND HEALTH OF WEANED PIGLETS Desbruslais Alexandra, Aka Julia, <u>Bukowska Paulina</u>, Neto Ricardo, Gonzalez Sanchez David, Hermes Antonia

15.25 - 15.30

#### FTP-OP-05

IMPACT OF CONTROLLING COCCIDIOSIS AND IRON DEFICIENCY ANAEMIA ON PIGLET QUALITY AT WEANING Udvarhelyi Eliza, Villagrasa Lorena, Abizanda Teresa, Mitjana Olga, Falceto Maria Victoria, <u>Espigares David</u>, Garza Laura

#### 15.30 - 15.35

FTP-OP-06

ASSESSMENT OF THE PRESENCE OF NON-RESPONDING, SERONEGATIVE SOWS AFTER VACCINATION AGAINST PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME (PRRS) VIRUS

<u>Fiers Jorian</u>, Maes Dominiek, Tignon Marylène, Cay Ann-Brigitte

# **BARTÓK ROOM**

BBD-OP-01

BBD-OP-02

**Bacterial Diseases I** 

#### Chaired by Prof. Doris Höltig and Dr. Arnaud Lebret

#### 15.00 - 15.20

A CROSS-SECTIONAL STUDY ON THE PREVALENCE OF MYCOPLASMA HYOPNEUMONIAE IN BREEDING ANIMALS <u>Biebaut Evelien</u>, Chantziaras Ilias, Boyen Filip, Haesebrouck Freddy, Devriendt Bert, Maes Dominiek

15.20 - 15.40

INDIVIDUAL IDENTIFICATION OF STREPTOCOCCUS SUIS SEROTYPES 1, 2, 1/2 AND 14 THROUGH NOVEL REALTIME PCR ASSAYS

<u>Arnal Bernal Jose Luis</u>, Lacouture Sonia, Fernández Ana, Benito Alfredo Angel, Lázaro Sofía, Martín Desireé, Gottschalk Marcelo

#### 15.40 - 16.00

#### BBD-OP-03

ANTIMICROBIAL SUSCEPTIBILITY PROFILES OF MYCOPLASMA HYORHINIS STRAINS ISOLATED FROM DISEASED SWINE ACROSS EUROPE BETWEEN 2019 AND 2021

<u>Klein Ulrich</u>, Földi Dorottya, Belecz Nikolett, Catania Salvatore, Dors Arkadiusz, Siesenop Ute, Vyt Philip, Kreizinger Zsuzsa, Gyuranecz Miklos

## **PÁTRIA HALL**

#### 15.35 - 15.40

#### FTP-OP-07

#### COMPARISON OF MYCOPLASMA HYOPNEUMONIAE SHEDDING IN EXPERIMENTALLY CHALLENGED PIGLETS VACCINATED WITH A NOVEL ORAL VACCINE AND AN INJECTABLE COMMERCIAL VACCINE

Coelho Ferreira Geovana, Lopes Mechler-Dreibi Marina, Meiroz De Souza Almeida Henrique, Storino Gabriel Yuri, <u>Sonalio Karina</u>, Moreira Petri Fernando Antonio, Da Silva Martins Tereza, Montassier Helio Jose, Sant'Anna Osvaldo Augusto, Cides Da Silva Luis Carlos, Carvalho De Abreu Fantini Marcia, De Oliveira Luis Guilherme

#### 15.40 - 15.45

#### FTP-OP-08

VACCINATION AGAINST ACTINOBACILLUS PLEUROPNEUMONIAE IN A SUBCLINICALLY AFFECTED FINISHING FARM EXPERIENCING PORCINE RESPIRATORY DISEASE COMPLEX

Reimus Fenja, <u>Söckler Christina</u>, Cvjetković Vojislav, Lisgara Marina, Mortensen Preben

#### 15.45 - 15.50

## FTP-OP-09

PREVALENCE OF UMBILICAL OUTPOUCHINGS IN PIGS – A CROSS SECTIONAL STUDY

<u>Lillevang Hansen Marie-Louise</u>, Jensen Tina Birk, Kristensen Charlotte Sonne, Larsen Inge, Pedersen Ken Steen

#### 15.50 - 15.55

#### FTP-OP-10

DETECTION OF RESPIRATORY VIRUSES IN OUTBREAKS OF PORCINE RESPIRATORY DISEASE COMPLEX IN NURSERIES <u>Martín-Valls Gerard</u>, Li Yanli, Díaz Ivan, Cano Esmeralda, Sosa Portugal Silvana, Mateu Enric

#### 15.55 - 16.00

#### FTP-OP-11

# EFFECTIVE ASFV SURVEILLANCE BASED ON ANTIBODY AND NUCLEIC ACID DETECTION: THE EXPERIENCE OF VIETNAM

<u>Gimenez-Lirola Luis,</u> Nelson William, Rauh Rolf, Venkatswaran Neeraja, Venkatswaran K, Saunders A, Walker J

#### 16.00 - 16.05

#### FTP-OP-12

#### SWINE INFLUENZA A TYPING RESULTS IN GERMANY FROM QI-Q3 2018, 2019, 2020 AND 2021

Lillie-Jaschniski Kathrin, Strutzberg-Minder Katrin, Koechling Monika, <u>Pesch Stefan</u>

#### 16.05 - 16.10

#### FTP-OP-13

ELECTRONIC SOW FEEDING: CHARACTERIZING FEEDING PATTERNS OF GESTATING SOWS AND THEIR ASSOCIATIONS TO REPRODUCTIVE PERFORMANCE

<u>Ornelas Mario</u>, Garcia Manzanilla Edgar, Rodrigues Da Costa Maria

16.10 - 16.15

#### FTP-OP-14

# BIOACTIVE FRACTIONS OF MILK AT DIFFERENT LACTATION TIMES IN LARGE-WHITE SOWS

Omede Apeh, Argüello Héctor, Carvajal Urueña Ana, <u>Manzanilla Edgar Garcia</u>

16.15 - 16.20











# PARALLEL SESSIONS: THURSDAY, MAY 12 16.40 - 18.00

# **PÁTRIA HALL**

# **BARTÓK ROOM**

Immunology & Vaccinology Chaired by Prof. Paolo Martelli and Dr. Adél Orosz Bacterial Diseases II Chaired by Prof. Doris Höltig and Dr. Arnaud Lebret

Chairea by Froi. Faoio Martein and Dr. Ader 01052	chuirea by Froi. Don's noitig and Dr. Arnada Lebret
16.40	- 17.00
IMM-OP-01 EVALUATION OF PRRS MLV VIREMIA AND TRANSMISSION FOR A BETTER PREVENTION OF RECOMBINATION BETWEEN VACCINE STRAINS Mahe Sophie, Renson Patricia, Andraud Mathieu, Le Dimna Mireille, Rose Nicolas, Paboeuf Frederic, <u>Bourry Olivier</u>	BBD-OP-04 POST-WEANING DIARRHEA: SEROTYPES, VIROTYPES AND ANTIMICROBIAL SUSCEPTIBILITY OF ESCHERICHIA COLI STRAINS ISOLATED SINCE 2014 IN FRENCH PIG FARMS Vigneron Sophie, Fily Bernard, Boutin Fabrice, Burlot Vincent, Geffroy Nicolas
17.00	- 17.20
IMM-OP-02 IMPROVING COLOSTRUM, NEONATAL PIGLET IMMUNITY AND PERFORMANCE WITH ALGAL BETA GLUCANS Costa Mara, Abércio Da Silva Caio, Neto Ricardo, <u>Kirwan</u> <u>Susanne</u>	BBD-OP-05 EXPLORATIVE FIELD EXAMINATION ON THE USE OF ORAL FLUID SAMPLES (OFS) FOR THE DETECTION OF LAWSONIA INTRACELLULARIS AND BRACHYSPIRA HYODYSENERIAE BY PCR Eddicks Matthias, Reiner Gerald , Junker Sigena, Becker Sabrina , Ritzmann Mathias
17.20	- 17.40
IMM-OP-03 DIAGNOSTICS AND IMMUNOPROPHYLAXIS AGAINST PORCINE INFLUENZA VIRUS A, SUBTYPE HIpdmN2 Buch Juhle, Grosse-Kock Christoph, Spiekermeier Ines, Teich Klaus, Helmer Carina	BBD-OP-06 EXPERIMENTAL CHALLENGE OF LEPTOSPIRA INTERROGANS SEROVAR ICTEROHAEMORRHAGIAE FAILS TO ESTABLISH INFECTION IN NAIVE GILTS Steinparzer Romana, Dürlinger Sophie, Knecht Christian, Renzhammer René, Al Salem Osaid, Takács Sarolta, Schmoll Friedrich, Steinrigl Adi, Bagó Zoltán , Willixhofer Denise, Schwendenwein Ilse, Ladinig Andrea, <u>Unterweger Christine</u>
17.40	- 18.00
IMM-OP-04 IMMUNOLOGICAL EVALUATION OF AN AUTOGENOUS VACCINE USED IN SOWS TO PROTECT PIGLETS AGAINST STREPTOCOCCUS SUIS INFECTIONS	<b>BBD-OP-07</b> Core genome multi locus sequence typing reveals New insights into the epidemiology of mycoplasma Hyorhinis

<u>Jeffery Alison</u>, Gilbert Melina, Corsaut Lorelei, Cloutier Simon, Frenette Marie-Christine , Surprenant Charles, Gottschalk Marcelo, Segura Mariela Bünger Moritz, Ladinig Andrea, Spergser Joachim



PROGRAMME FRIDAY, MAY 13

# **PÁTRIA HALL**

- 8.30 10.00 Keynote Session: SUSTAINABLE PIG PRODUCTION Chaired by Dr. Elena Canelli and Prof. László Ózsvári
- 8.30 9.00 Significant aspects of marketing pigs & pork in the near and far future, Dr. Jörg Altemeier
   9.00 9.30 New trends in pig nutrition for future challenges in pig production, Dr. Ricardo Neto
- 9.30 10.00 Round table discussion
- 10.00 10.30 Coffee break & Poster viewing

# PÁTRIA HALL • BARTÓK ROOM

10.30 – 12.30 Parallel Sessions (Oral Presentations) Welfare & Nutrition Chaired by Dr. Tamás Révész Reproduction Chaired by Prof. Olli Peltoniemi and Prof. Johannes Kauffold

# **PÁTRIA HALL**

12.30 – 13.00 Closing Ceremony ESPHM 2023 in Thessaloniki

# **PARALLEL SESSIONS: FRIDAY, MAY 13** 10.30 – 12.30

# PÁTRIA HALL

# Welfare & Nutrition Chaired by Dr. Tamás Révész

# **BARTÓK ROOM**

Reproduction

Chaired by Prof. Olli Peltoniemi and Prof. Johannes Kauffold

	Kadilola
10.30 - 10.50	
AWN-OP-01 A MULTIDISCIPLINARY APPROCH TO INVESTIGATE DIGITAL LESIONS IN SWINE Bariselli Simone, Zappaterra Naomi, Riccaboni Pietro, Scanziani Eugenio, Zani Davide, Gazzola Alessandra, Tansini Cesare, Scali Federico, Alborali Giovanni Loris, Vezzoli Fausto, <u>Maisano Antonio Marco</u>	<b>REP-OP-01</b> EVALUATION OF AN ARTIFICIAL INTELLIGENCE SYSTEM FOR ESTRUS DETECTION IN SOWS <u>Verhoeven Steven</u> , Chantziaras Ilias, Loicq Michel, Verhoeven Ludo, Maes Dominiek
10.50 - 11.10	
AWN-OP-02 ANALGESIC EFFECT AND APPLICABILITY OF LOCAL ANESTHESIA FOR PIGLET CASTRATION Deffner Pauline, Steffanie Senf, Abendschön Nora, Ritzmann Mathias, Zöls Susannne	<b>REP-OP-02</b> INFLUENCE OF THE PARTURITION AND DIFFERENT SOW AND PIGLET TRAITS ON UTERINE INVOLUTION IN A FREE FARROWING SYSTEM Egli Philipp, Schüpbach Gertraud, Nathues Heiko, Ulbrich S.E., <u>Grahofer Alexander</u>
11.10 - 11.30	
AWN-OP-03 GROWTH PERFORMANCE OF WEANED PIGLETS FED DIFFERENT DOSES AND SOURCES OF ZINC Riedmüller Jonathan, Männer Klaus, Vahjen Wilfried, Roméo Agathe, Zentek Jürgen, <u>Manzke Naiana</u>	<b>REP-OP-03</b> EFFECT OF MODULATED ENERGY IN THE CONSERVATION OF PIG SEMEN DOSES WITH FORMULA 8, LONG TERM EXTENDER <u>Angel Diana C</u> , Bettini Ruggero
11.30 - 11.50	
AWN-OP-04 ANESTHETIC DEPTH AND NARCOTIC INCIDENTS OF AUTOMATED ISOFLURANE ANESTHESIA DURING PIGLET CASTRATION Gumbert Sophie, Haertel Helena, Beisl Marina, Wernecke Anja, Winner Eva, Ritzmann Mathias, Zoels Susanne	<b>REP-OP-04</b> EFFECT OF A 1,25-DIHYDROXYVITAMIN D3 (PANBONIS®), BACK FAT AND FAECAL SORE ON THE FARROWING PROCESS AND PIGLET VITALITY IN A FREE FARROWING SYSTEM Jahn Laura, Schüpbach Gertraud, Nathues Heiko, Grahofer Alexander
11.50 - 12.10	
AWN-OP-05 PAIN MANAGEMENT DURING SURGICAL CASTRATION OF MALE PIGLETS : A COMPARATIVE STUDY Waret-Szkuta Agnès, Poudevigne Guilhem, Durand Christophe, Maze Enora, Koralewski Mathilde, Maniaval Olivier, Meymerit Christine, Rossel Roxane, Simoes Vasco, Concordet Didier	<b>REP-OP-05</b> ASSESSMENT OF FACTORS INFLUENCING ALTRENOGEST WITHDRAWAL-ESTRUS INTERVAL (AEI) IN DIFFERENT FARMS Sebastian Mercedes, Gomez Marina, Marcos Marcial, Jiménez Marta, <u>Menjon Rut</u>
12.10 - 12.30	
AWN-OP-06 VITAMIN D3 SERUM LEVELS IN FINISHER PIGS AT SLAUGHTER Geudeke Theo, <u>Eenink Karlijn</u> , Houben Manon, Olde Monnikhof Marlies	REP-OP-06 IMPACT OF A CIRCOVAC® MASS VACCINATION IN THE SOW HERD ON PRODUCTIVE PARAMETERS FOLLOWING A PCV-2 OUTBREAK IN A FARROW-TO-WEAN FARM Berton Pauline, Lebret Arnaud, Normand Valérie, Bouchet Franck, Brissonnier Mathieu, Jardin Agnès, Brilland Sophie, Boulbria Gwénaël, Teixeira-Costa Charlotte

# LIST OF POSTERS

### **BACTERIAL DISEASES**

#### BBD-PP-01

RECTAL SHEDDING OF CHLAMYDIA SUIS IN A PIG FARM WITHOUT CLASSICAL CLINICAL SIGNS OF CHLAMYDIOSIS C. Unterweger<sup>1</sup>, M. Dippel<sup>1</sup>, M. Koch<sup>1</sup>, A. Ladinig<sup>1</sup> <sup>1</sup>University Clinic for Swine, University of Veterinary Medicine Vienna, Austria

#### BBD-PP-02

ANTIMICROBIAL SUSCEPTIBILITY OF TRUEPERELLA PYOGENES ISOLATES OBTAINED FROM CONDEMNED CARCASSES P. Cybulski<sup>1</sup>, A. Jabłoński<sup>2</sup>

<sup>1</sup>Goodvalley Agro S.A., Przechlewo, Poland

<sup>2</sup> Center of Translational Medicine, Faculty of Veterinary Medicine, Warsaw University of Life Sciences, Warsaw, Poland

#### BBD-PP-03

UNDERSTANDING THE ESCHERICHIA COLI INHIBITORY MECHANISMS OF A DUAL-STRAIN BACILLUS PROBIOTIC TO PIGS

L. Skjøt-Rasmussen<sup>1</sup>, E. Juncker Boll<sup>1</sup>, L. Catrine Capern<sup>1</sup>, J. Svan Nielsson<sup>1</sup>, R. Almeida Faria<sup>2</sup>, L. Hubertz Birch Hansen<sup>3</sup>

<sup>1</sup>Chr. Hansen A/S, Animal Health Innovation

<sup>2</sup>Chr. Hansen A/S, Biochemical Assays

<sup>3</sup>Chr. Hansen A/S, Animal Health Commercial Development

#### BBD-PP-04

A PROGRAM TO CONTROL DYSENTERY AT NATIONAL LEVEL INITIATED IN SWEDEN

P. Wallgren<sup>1</sup>

<sup>1</sup>National Veterinary Institute SVA, 751 89 Uppsala, Sweden

#### BBD-PP-05

COMPARATIVE ANALYSIS OF ANTIMICROBIAL RESISTANCE IN GUT PATHOGENIC ESCHERICHIA COLI FIELD STRAINS FROM SWINE

S. Van Hoorde<sup>1</sup>, B. Devriendt<sup>1</sup>, D. Sperling<sup>2</sup>, E. Cox<sup>1</sup>

<sup>1</sup>Laboratory of Immunology, Department of Translational Physiology, Infectiology and Public Health, Faculty of Veterinary Medicine. Ghent University. Belaium

<sup>2</sup>Ceva Santé Animale. 10 Avenue de la Ballastière. 33500 Libourne - France

BBD-PP-06

COMPARATIVE ANALYSIS OF STX2E SECRETION IN SHIGA TOXIN-PRODUCING ESCHERICHIA COLI (STEC) FIELD STRAINS FROM SWINE

S. Van Hoorde<sup>1</sup>, B. Devriendt<sup>1</sup>, D. Sperling<sup>2</sup>, E. Cox<sup>3</sup>

<sup>1</sup>Laboratory of Immunology, Department of Translational Physiology, Infectiology and Public Health, Faculty of Veterinary Medicine, Ghent University, Belgium

<sup>2</sup>Ceva Santé Animale, 10 Avenue de la Ballastière, 33500 Libourne - France

<sup>3</sup>Laboratory of Immunology, Faculty of Veterinary Medicine, University of Ghent, Belgium

#### BBD-PP-07

CORRELATION OF QPCR VALUES FOR LAWSONIA INTRACELLULARIS FROM TWO DIFFERENT EUROPEAN LABORATORIES

J. Haugegaard<sup>1</sup>, P. Astrup<sup>2</sup>

<sup>1</sup>MSD Animal Health, Nordic

<sup>2</sup> MSD Animal Health, Copenhagen, Denmark

# DETERMINATION OF MACROLIDE AND LINCOMYCIN SUSCEPTIBILITY OF MYCOPLASMA HYORHINIS ISOLATES BY A MOLECULAR BIOLOGICAL ASSAY

<u>D. Földi</u><sup>1</sup>, U. Klein<sup>2</sup>, N. Belecz<sup>1</sup>, S. Catania<sup>3</sup>, A. Dors<sup>4</sup>, U. Siesenop<sup>5</sup>, P. Vyt<sup>6</sup>, Z. Kreizinger<sup>1</sup>, M. Gyuranecz<sup>1</sup> <sup>1</sup>Veterinary Medical Research Institute Budapest Hungary

<sup>2</sup>Huvepharma NV, Belgium

<sup>3</sup> Istituto Zooprofilattico Sperimentale della Venezie, Legnaro, Italy

<sup>4</sup>Department of Swine Diseases, National Veterinary Research Institute, Al. Partyzantów 57, 24-100 Puławy, Poland

<sup>5</sup> University of Veterinary Medicine Hannover, Institute for Microbiology, Bischofsholer Damm 15, 30173 Hanover, Germany

<sup>6</sup> Dialab, diagnostic laboratory, Belgium

# BBD-PP-09

# NEONATAL DIARRHOEA (ND) - RESULTS FROM A MONITORING PROGRAM

<u>A. Ullerich</u><sup>1</sup>, K. Dohmann<sup>1</sup>, K. Strutzberg-Minder<sup>1</sup>, I. Zerbin<sup>1</sup>, D. Sperling<sup>2</sup>, F. Schmelz<sup>3</sup> <sup>1</sup>IVD GmbH, Innovative Veterinary Diagnostics, Seelze, Germany <sup>2</sup>Ceva Santé Animale, 10 Avenue de la Ballastière, 33500 Libourne - France

<sup>3</sup>Ceva Santé Animale, Dessau-Rosslau, Germany

# BBD-PP-10

PK/PD AND CLINICAL RELATIONSHIPS OF VETMULIN (TIAMULIN BASE) ADMINISTERED TO PIGS FOR THE TREATMENT OF MYCOPLASMAL ARTHRITIS

U. Klein<sup>1</sup>, M. Gyuranecz<sup>2</sup>, M. Gyuranecz<sup>3</sup>, S. Catania<sup>4</sup>, L. Claerhout<sup>1</sup>, W. Depondt<sup>1</sup>

<sup>1</sup>Huvepharma NV Antwerp, Belgium

<sup>2</sup>Veterinary Medical Research Institute, Budapest, Hungary

<sup>3</sup> MolliScience Kft., Biatorbagy, Hungary

<sup>4</sup> Istituto Zooprofilattico Sperimentale della Venezie, Legnaro, Italy

#### BBD-PP-11

PREVALENCE AND RISK FACTORS OF BRACHYSPIRA SPP. IN EUROPEAN PIG HERDS WITH A HISTORY OF DIARRHEA <u>M. Arnold</u><sup>4</sup>, A. Crienen<sup>1</sup>, H. Swam<sup>1</sup>, G. Schüpbach<sup>2</sup>, S. Von Berg<sup>3</sup>, H. Nathues<sup>4</sup>

<sup>1</sup>Center for Diagnostic Solutions, MSD AH Boxmeer, The Netherlands

<sup>2</sup>Veterinary Public Health Institute, University of Bern, Liebefeld

<sup>3</sup>MSD Animal Health, Munich, Germany

<sup>4</sup> Clinic for Swine, Vetsuisse Faculty, University of Bern, Bern, Switzerland

#### BBD-PP-12

FIELD REPORT OF A SUCCESSFUL MYCOPLASMA HYOPNEUMONIAE ELIMINATION PROGRAM SHORTLY AFTER INFECTION

B. Maxwell<sup>1</sup>, J. Miclette<sup>2</sup>, <u>J. Mora<sup>3</sup></u>, D. Richard<sup>1</sup> <sup>1</sup>Pharmgate Animal Health, Canada <sup>2</sup>Agri-Marche, QC, Canada <sup>3</sup>ECO ANIMAL HEALTH, LTD

#### BBD-PP-13

IDENTIFICATION OF ACTINOBACILLUS PLEUROPNEUMONIAE (AP) SEROTYPES FROM RECENT CLINICAL CASES IN GERMAN SWINE HERDS

I. Hennig-Pauka<sup>1</sup>, Y. Li<sup>2</sup>, C. Waehner<sup>3</sup>, J.T. Bossé<sup>4</sup>, P.R. Langford<sup>2</sup>, C. Soeckler<sup>3</sup>, <u>P. Mortensen<sup>5</sup></u>

<sup>1</sup>Field Station for Epidemiology, Bakum, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany

<sup>2</sup>Department of Infectious Disease, Imperial College London, London, UK

- <sup>3</sup> Ceva Tiergesundheit GmbH, Kanzlerstraße 4, 40472 Düsseldorf Germany
- <sup>4</sup> Section of Paediatrics, Department of Medicine, Imperial College London, London, UK
- <sup>5</sup>Ceva Corporate Swine Team

#### BBD-PP-14 INDUCING STREPTOCOCCUS SUIS DISEASE IN NURSERY PIGS

E. Arndt<sup>1</sup>, E. Hanna<sup>1</sup>, M. Amezcua<sup>1</sup>, R. Friendship<sup>1</sup>, V. Farzan<sup>1</sup>

<sup>1</sup>Department of Population Medicine, University of Guelph, Canada

#### BBD-PP-15

#### PROTEOMICS CHARACTERIZATION AND COMPARISON OF TWO MYCOPLASMA HYOPNEUMONIAE STRAINS USED IN COMMERCIAL VACCINES

L. Garza<sup>1</sup>, J. Segalés<sup>2</sup>, V. Casas<sup>3</sup>, M. Carrascal<sup>3</sup>, H. Smits<sup>4</sup>, M. Sibila<sup>5</sup>

<sup>1</sup>Ceva Salud Animal, Barcelona, Spain

<sup>2</sup> Centre de Recerca en Sanitat Animal (CReSA-IRTA) and Dept. Sanitat i Anatomia Animals, UAB, 08193 Bellaterra (Barcelona, Spain)

<sup>3</sup> CSIC/UAB Proteomics Laboratory, Instituto de Investigaciones Biomedicas de Barcelona–Consejo Superior de Investigaciones Científicas, Institut d'investigacions Biomèdiques August Pi i Sunyer, Barcelona, Spain

<sup>4</sup>Ceva Sante Animale, Scientific Support and Investigation Unit, Ceva-Phylaxia Ltd., Budapest, Hungary <sup>5</sup>IRTA, Centre de Recerca en Sanitat Animal (CReSA, IRTA-UAB), Campus de la Universitat Autònoma de Barcelona, 08193 Bellaterra, Spain

#### BBD-PP-17

SALMONELLA TYPHIMURIUM ENVIRONMENTAL REDUCTION IN A FARROW-TO-FINISH PIG HERD, USING A LIVE ATTENUATED SALMONELLA TYPHIMURIUM VACCINE, FOLLOW-UP

P. Van Der Wolf<sup>1</sup>, E. Gijsen<sup>2</sup>, S. Van Colen<sup>1</sup>, E. De Jonghe<sup>3</sup>

<sup>1</sup>Ceva Santé Animale, Naaldwijk, the Netherlands

<sup>2</sup>Veterinary practice "VarkensArtsenZuid", Panningen, The Netherlands

<sup>3</sup>Ceva Santé Animale, Brussels, Belgium

#### BBD-PP-18

SYSTEMIC LEPTOSPIROSIS DISEASE INCIDENTS ASSOCIATED WITH JAUNDICE IN PIGS IN ENGLAND

L. Pittalis<sup>1</sup>, E. Fullick<sup>1</sup>, C. Bidewell<sup>1</sup>, S. Williamson<sup>2</sup> <sup>1</sup>Animal and Plant Health Agency, England, UK <sup>2</sup>Animal and Plant Health Agency (APHA)

#### BBD-PP-19

COMPARATIVE TRIAL OF THE LUNG LESIONS ASSOCIATED WITH MYCOPLASAMA HYOPNEUMONIAE USING ARTIFICIAL INTELLIGENCE IN GREECE

<u>I. Bernal</u><sup>1</sup>, R. Jordà<sup>1</sup>, S. Flora<sup>2</sup>, S. Argyros<sup>3</sup>, G. Labronikou<sup>3</sup> <sup>1</sup>HIPRA, Amer, Spain <sup>2</sup> Pieriki Swine Farm <sup>3</sup> HIPRA Hellas

#### BBD-PP-20

IDENTIFICATION OF ACTINOBACILLUS PLEUROPNEUMONIAE (AP) SEROTYPES IN SWINE PLEUROPNEUMONIA OUTBREAKS IN ITALIAN SWINE HERDS

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#### BBD-PP-21

ASSESSMENT OF BARRIER FUNCTION IN DIFFERENTIATED INTESTINAL PORCINE EPITHELIAL CELLS (IPEC-J2) IN RESPONSE TO SALMONELLA (LPS) CHALLENGE AND TREATMENT WITH YEAST CELL WALL PRODUCTS. N. Browne<sup>1</sup>, D. Daly<sup>1</sup>, K. Horgan<sup>1</sup>

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COMPARING TYLVALOSIN AND TILMICOSIN FOR THE IMPROVEMENT OF CLINICAL SIGNS AND PERFORMANCE FOLLOWING MYCOPLASMA HYOPNEUMONIAE (MHP) AEROSOL CHALLENGE IN FINISHING PIGS

G. Greaves<sup>1</sup>, C. Lichty<sup>1</sup>, C. Werth<sup>1</sup>, G. Moser<sup>1</sup>, A. Lopez<sup>2</sup>, <u>J. Mora<sup>2</sup></u> <sup>1</sup>SW Ontario Veterinary Services, Stratford, Ontario, Canada

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#### BBD-PP-23

DEVELOPMENT OF A DIGITAL POLYMERASE CHAIN REACTION ASSAY TO DETECT MYCOPLASMA HYOPNEUMONIAE DNA

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#### BBD-PP-24

#### DEVELOPMENT OF A MYCOPLASMA HYORHINIS CHALLENGE MODEL IN FOUR WEEK OLD PIGS

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#### BBD-PP-25

EVALUATION OF MALDI-TOF MS AS A SPECIES IDENTIFICATION TOOL FOR STREPTOCOCCUS SUIS

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#### BBD-PP-27

OPTIMIZATION OF ANTIMICROBIAL TREATMENTS FOR SWINE RESPIRATORY PATHOGENS USING AN EPIDEMIOLOGICAL APPROACH UNDER FIELD CONDITIONS

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#### BBD-PP-28

PK/PD AND CLINICAL RELATIONSHIPS OF PHARMASIN PREMIX (TYLOSIN PHOSPHATE) ADMINISTERED TO PIGS FOR THE TREATMENT OF NECROTIC ENTERITIS

U. Klein<sup>1</sup>, M. Karanikolova<sup>2</sup>, A. Kanora<sup>1</sup>, L. Claerhout<sup>1</sup>, W. Depondt<sup>1</sup>, D. Pashov<sup>3</sup>

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#### BBD-PP-29

PK/PD AND CLINICAL RELATIONSHIPS OF PHARMASIN (TYLOSIN PHOSPHATE/TYLOSIN TARTRATE) ADMINISTERED TO PIGS FOR THE TREATMENT OF NECROTIC ENTERITIS

<u>U. Klein<sup>1</sup></u>, S. Vesselova<sup>2</sup>, A. Kanora<sup>1</sup>, L. Claerhout<sup>1</sup>, W. Depondt<sup>1</sup>, D. Pashov<sup>3</sup>

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REDUCTION OF ZINC OXIDE BY PROBIOTIC CLOSTRIDIUM BUTYRICUM, ORGANIC ACID AND WATER DISINFECTION

<u>P. Bak</u><sup>1</sup>, L. Kunstmann<sup>2</sup>, L. Meedom<sup>2</sup>, W. Van Der Veken<sup>3</sup> <sup>1</sup>Danvet, Denmark <sup>2</sup>Huvepharma NV, Denmark <sup>3</sup>Huvepharma NV, Belgium

### BBD-PP-31

BACTERIA IN MILK FROM SOWS WITH MASTITIS <u>A. Backhans</u><sup>1</sup>, F. Matti<sup>2</sup>, M. Lindberg<sup>3</sup>, K. Ryytty Sylvén<sup>4</sup>, K. Pedersen<sup>1</sup> <sup>1</sup>National Veterinary Institute (SVA), Uppsala, Sweden <sup>2</sup>Farm & Animal Health, Vreta Kloster, Sweden <sup>3</sup>Farm and Animal Health, Uppsala, Sweden <sup>4</sup>Farm & Animal Health, Uppsala, Sweden

#### BBD-PP-33

EFFECT OF THE VACCINATION AGAINST SHIGA TOXIN 2E IN A PIGLET PRODUCING FARM WITH HISTORY OF OEDEMA DISEASE- RETROSPECTIVE ANALYSIS

D. Sperling<sup>1</sup>, J. Vinduska<sup>2</sup>, E. Smidova<sup>2</sup>, J. Vanhara<sup>3</sup> <sup>1</sup>Ceva Santé Animale, 10 Avenue de la Ballastière, 33500 Libourne - France <sup>2</sup>ZOD Zichlinek, Czech Republic <sup>3</sup>University of Veterinary Sciences Brno, Czech Republic

# BBD-PP-34

EVALUATION THE PREVALENCE OF PORCINE ENZOOTIC PNEUMONIA AND PORCINE PLEUROPNEUMONIA IN POLAND IN 2018-2021

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#### BBD-PP-35

GENETIC IDENTIFICATION OF LEPTOSPIRA SEROVARS DETECTED ON SWINE ABORTIONS OF IBERIAN PENINSULA J.L. Arnal Bernal<sup>1</sup>, M. Ubieto<sup>1</sup>, A.A. Benito<sup>1</sup>, G. Chacon<sup>1</sup>, S. Lázaro<sup>1</sup>, D. Martin<sup>1</sup> <sup>1</sup>EXOPOL

#### BBD-PP-36

MULTIFACTORIAL OUTBREAKS OF ACTINOBACILLUS PLEUROPNEUMONIAE RELATED DISEASE IN THREE HERDS

E. Schreiber<sup>1</sup>, M.C. Bonilla<sup>2</sup>, R. Imker<sup>2</sup>, M. Beumer<sup>3</sup>, M. Heimann<sup>3</sup>, N. De Buhr<sup>2</sup>, I. Hennig-Pauka<sup>4</sup>

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#### BBD-PP-37

NEONATAL PIGLET DIARRHEA IN FRANCE: WHICH PATHOGENS ARE INVOLVED?

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#### BBD-PP-38 PREVALENCE OF C.DIFFICILE IN DIARRHOEIC PIGLETS IN EUROPE

<u>O. Boix</u><sup>1</sup>, I. Galé<sup>1</sup>, G. Labronikou<sup>2</sup>, K. Haliniarz<sup>3</sup>, S. Sudeick<sup>4</sup>, M. Annelies<sup>5</sup>, A. Melendez<sup>6</sup>, S. Van Poucke<sup>7</sup> <sup>1</sup>HIPRA, Amer (Girona), Spain <sup>2</sup> HIPRA Hellas

- <sup>3</sup>HIPRA Polska
- <sup>4</sup>HIPRA Deutschland GmbH
- <sup>5</sup>Hipra Benelux
- <sup>6</sup> HIPRA Spain
- <sup>7</sup>Syn+

# BBD-PP-39

SALIVA SAMPLING AS ALTERNATIVE METHOD BESIDES POOLED FECES SAMPLES FOR MEASURING QPCR LAWSONIA INTRACELLULARIS LEVELS

N. Wertenbroek<sup>1</sup>, O. Schreurs<sup>2</sup>, Q. Cao<sup>1</sup> <sup>1</sup>MSD AH NL, The Netherlands <sup>2</sup>DAC Advee, Ysselsteyn, Netherlands

# BBD-PP-40

THE EFFECT OF VACCINATION AGAINST ACTINOBACILLUS PLEUROPNEUMONIAE IN A FINISHING FARM WITH BATCHES EXPERIENCING SUBCLINICAL PLEUROPNEUMONIA.

L.H. Diness<sup>1</sup>, H.B. Pedersen<sup>2</sup>, A. Haglund<sup>3</sup>, M. Lisgara<sup>4</sup>, <u>P. Mortensen<sup>5</sup></u>

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# BBD-PP-41

# USE OF QUANTITATIVE PCR TO DIAGNOSE CLOSTRIDIUM DIFFICILE IN NEONATAL PIGLETS

<u>O. Boix</u><sup>2</sup>, A. Melendez<sup>1</sup>, I. Galé<sup>2</sup>, G. Ricardo<sup>3</sup>, C. Ardies<sup>4</sup>, J. Hernandez<sup>6</sup>, S. Rosina<sup>5</sup>, A.M. Strunz<sup>7</sup> <sup>1</sup>HIPRA Spain <sup>2</sup>HIPRA, Amer (Girona), Spain <sup>3</sup>HIPRA Portugal <sup>4</sup>HIPRA, 7 rue Roland Garros, Bat H, 44700 ORVAULT, FRANCE <sup>5</sup>HIPRA Italy <sup>6</sup>HIPRA UK

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#### BBD-PP-42

VACCINATION OF DANISH NURSERY PIGS AGAINST LAWSONIA INTRACELLULARIS BY ID OR IM ROUTE, USING RESPECTIVELY AN ID PCV2 VACCINE OR AN IM PCV2/MHYO RTU VACCINE AS DILUENT J. Haugegaard<sup>1</sup>, G. Blach Nielsen<sup>2</sup> <sup>1</sup>MSD Animal Health, Nordic <sup>2</sup>MSD Animal Health

#### BBD-PP-43

CONTROL OF S. SUIS ASSOCIATED MORTALITY THROUGH NON-PROGRESSIVE ATROPHIC RHINITIS VACCINATION <u>A. Puigredon</u><sup>1</sup>, M. Baratelli<sup>1</sup>, G. Irene<sup>1</sup>, L.D.R. Laura<sup>2</sup>, A. Vela<sup>2</sup> <sup>1</sup>HIPRA HQ, Amer (Girona), Spain <sup>2</sup>Thinkinpig, Zaragoza, Spain

#### BBD-PP-44

DEMONSTRATING THE INTER-HERD TRANSMISSION OF ACTINOBACILLUS PLEUROPNEUMONIAE (APP) INFECTION BY EPIDEMIOLOGICAL AND MOLECULAR METHODS

I. Szabo<sup>1</sup>, B. Ujvari<sup>2</sup>, T. Molnar<sup>1</sup>, J. Gimesiné Fodor<sup>3</sup>, I. Biksi<sup>4</sup>, L. Makrai<sup>4</sup>, L. Buza<sup>5</sup>, T. Magyar<sup>2</sup>

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# **BBD-PP-45** IMPACT OF ETEC AND STEC E. COLI INFECTION ON GROWTH PERFORMANCE

<u>J. Morales<sup>1</sup>,</u> M. Rodríguez<sup>1</sup>, A. Manso<sup>1</sup>, D. Sperling<sup>2</sup> <sup>1</sup>PigCHAMP Pro Europa <sup>2</sup>Ceva Santé Animale, 10 Avenue de la Ballastière, 33500 Libourne - France

#### BBD-PP-46

## LAWSONIA INTRACELLULARIS SCREENING STUDY IN SPANISH PIG FARMS

<u>M. Marcos<sup>1</sup></u>, R. Menjon<sup>1</sup>, M. Jiménez<sup>1</sup>, C. Llorente<sup>1</sup>, M.L. Perez-Breña<sup>1</sup>, A. Romero<sup>1</sup>, J. Bollo<sup>1</sup>, R. Del Pozo Sacristan<sup>2</sup> <sup>1</sup>MSD Animal Health <sup>2</sup>MSD AH UK

# BBD-PP-47

PREVALENCE OF CLOSTRIDIOIDES DIFFICILE IN DIARRHOEIC PIGLETS IN SPAIN O. Boix<sup>1</sup>, L. Domínguez Estallo<sup>2</sup>, A.á. Benito Zuñiga<sup>2</sup>, D. Martín<sup>2</sup> <sup>1</sup>HIPRA, Amer (Girona), Spain <sup>2</sup>EXOPOL SL

# BBD-PP-48

SUBACUTE EDEMA DISEASE: ANALYSIS OF "SHIGATOXIN" STATUS IN SUSPECTED FRENCH FARMS. <u>S. Brilland</u><sup>1</sup>, A. Jardin<sup>1</sup>, P. Leneveu<sup>1</sup>, N. Capdevielle<sup>1</sup> 'Ceva Santé Animale SA, 10 Avenue de la ballastière, CS 30126 – 33501 Libourne Cedex, France

#### BBD-PP-49

SUDDEN DEATHS IN SOWS DUE TO LAWSONIA INTRACELLULARIS-INFECTION - A CASE REPORT

M. Viehmann<sup>1</sup>, <u>A. Pausenberger<sup>2</sup></u> <sup>1</sup>Tierärztliche Praxis Viehmann, Schrozberg, Germany <sup>2</sup>MSD Animal Health, Munich, Germany

BBD-PP-50

# CASE STUDY: WHAT IF IT WAS GLAESSERELLA PARASUIS? <u>R. Ossaer</u><sup>1</sup>, F. Colin<sup>2</sup> <sup>1</sup>HYOVET, Carrefour de Penthièvre, 22640 Plestan, France

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# BBD-PP-51

PREVALENCE OF LUNG LESIONS IN SOWS IN A COMMERCIAL FARM IN POLAND

E. Michalik<sup>1</sup>, <u>P. Cybulski<sup>1</sup></u>, P. Talaga<sup>1</sup>, R. Kondratiuk<sup>1</sup>, R. Lewko-Wojtowicz<sup>2</sup>, K. Janeczko<sup>3</sup>, R. Panek<sup>2</sup> <sup>1</sup>Goodvalley Agro S.A., Przechlewo, Poland <sup>2</sup>Ceva Animal Health Poland

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#### BBD-PP-52

PROTECTION PROVIDED BY TWO DIFFERENT VACCINES AGAINST CHALLENGE INFECTION WITH A. PLEUROPNEUMONIAE SEROVAR 13

I. Kiss<sup>1</sup>, B. Felföldi<sup>1</sup>, E. Kovács<sup>1</sup>, M. Albert<sup>2</sup>, H. Smits<sup>1</sup>, <u>P. Mortensen<sup>3</sup></u>

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#### BBD-PP-53

ANTIBIOTIC RESISTANCE IN ENTEROTOXIGENIC (ETEC) AND NON-ENTEROTOXIGENIC ESCHERICHIA COLI FROM SUCKLING PIGLETS AND WEANED PIGLETS WITH DIARRHOEA <u>A. Backhans</u><sup>1</sup>, F. Matti<sup>2</sup>, M. Sjölund<sup>1</sup>, M. Lindberg<sup>3</sup>, K. Pedersen<sup>1</sup> <sup>1</sup>National Veterinary Institute (SVA), Uppsala, Sweden <sup>2</sup>Farm & Animal Health, Vreta Kloster, Sweden

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DETECTION OF LEPTOSPIRA SPP. BY PCR TECHNIQUE IN SAMPLES SUBMITTED DUE TO REPRODUCTIVE DISORDERS IN TWO SPANISH DIAGNOSTIC LABORATORIES

J. Miguel<sup>1</sup>, I. Galé<sup>1</sup>, <u>D. Torrents</u><sup>2</sup>, I. Ballarà<sup>1</sup>, S. Del Caso<sup>3</sup>, J.L. Arnal<sup>3</sup>, D. Martín<sup>3</sup> <sup>1</sup>HIPRA HQ, Amer (Girona), Spain <sup>2</sup>HIPRA Spain <sup>3</sup>EXOPOL SL

#### BBD-PP-55

EFFICACY OF A PENICILLIN AND DIHYDROSTREPTOMYCIN INJECTABLE COMBINATION IN THE TREATMENT OF SOWS URINARY TRACT INFECTIONS

<u>E. Bousquet</u><sup>2</sup>, A. Lebret<sup>1</sup>, G. Boulbria<sup>1</sup>, V. Normand<sup>1</sup>, P. Berton<sup>1</sup>, J. Jeusselin<sup>1</sup>, F. Bouchet<sup>1</sup>, M. Brissonnier<sup>1</sup>, C. Teixeira-Costa<sup>1</sup>, M. Lacreusette<sup>2</sup>, J. Le Guennec<sup>3</sup>

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#### BBD-PP-56

# ACTIVE LAWSONIA INTRACELLULARIS SURVEILLANCE ON VACCINATED AND NON-VACCINATED CANADIAN FARMS

L. Van De Weyer<sup>1</sup>, J. Demare<sup>2</sup>, B. Tully<sup>2</sup>, R. Tenbergen<sup>3</sup>, J. Angulo<sup>4</sup> <sup>1</sup>Zoetis Canada Inc, Kirkland, QC <sup>2</sup>Swine Health Professionals Ltd, Steinbach, MB <sup>3</sup>Demeter Veterinary Services PC Inc, Woodstock, ON <sup>4</sup>Zoetis Inc, Parsippany, NJ, USA

#### BBD-PP-57

BORDETELLA BRONCHISEPTICA SCREENING IN SPANISH FARMS SHOWING RESPIRATORY PROBLEMS L. Ruíz<sup>1</sup>, <u>I. Galé</u><sup>1</sup>, D. Martín<sup>2</sup>, S. Del Caso<sup>2</sup>, L. Domínguez<sup>2</sup> <sup>1</sup>HIPRA HQ, Amer (Girona), Spain <sup>2</sup>EXOPOL, San Mateo Gállego (Zaragoza), Spain

BBD-PP-58

FIELD DATA OF USE OF PORCILIS LAWSONIA IM AND ID VACCINATION ON A DUTCH CLOSED SOW HERD <u>N. Wertenbroek</u><sup>1</sup>, J. Broere<sup>1</sup>, H. Smit<sup>2</sup> <sup>1</sup>MSD AH NL, The Netherlands <sup>2</sup>Diergeneeskundig Centrum Boven Veluwe

BBD-PP-59

IMMUNIZATION AGAINST ILEITIS IN SWINE: A FARM TO SLAUGHTERHOUSE PERFORMANCE STUDY <u>M. Kamoei</u><sup>1</sup>, L. Massaferro<sup>2</sup>, H. Luiz<sup>2</sup>, M. Figueiredo<sup>3</sup>, S. Pereira<sup>4</sup>, B. Marques<sup>5</sup> <sup>1</sup>MSD Animal Health <sup>2</sup>Grupo Santa Rosa <sup>3</sup>MSD Animal Health, Peru <sup>4</sup>Suiaves Comércio de Produtos Veterinários, Brazil <sup>5</sup>MSD Animal Health, Brazil

BBD-PP-60 PERFORMANCE AFTER VACCINATION WITH AN INTRAMUSCULAR LAWSONIA INTRACELLULARIS VACCINE AT THE BEGINNING OF FATTENING IN A FATTENING FARM SUBCLINICALLY INFECTED WITH LAWSONIA K. Von Brehm<sup>1</sup>, <u>C. Renken<sup>2</sup></u>, F. Von Und Zur Mühlen<sup>2</sup>, R. Tabeling<sup>2</sup> <sup>1</sup>Tierärzteteam Nord, Niesgrau <sup>2</sup>Intervet Deutschland GmbH; MSD Animal Health, Unterschleißheim, Germany

BBD-PP-61 RESULTS OF PREVALENCE OF COLONIZATION TO MYCOPLASMA HYOPNEUMONIAE IN PIGLETS WHEN USING TWO DIFFERENT VACCINATION STRATEGIES: 1 WEEK OF AGE VS 3 WEEKS OF AGE. I. De Miguel Rubio<sup>1</sup>, D. Segura Garvin<sup>1</sup>, A. Garrido Medina<sup>1</sup>, E. Maiques Garcés<sup>2</sup> <sup>1</sup>JISAP <sup>2</sup>ZOETIS

ASSOCIATON OF BORDETELLA BRONCHISEPTICA AND PASTEURELLA MULTOCIDA WITH AGE OF THE PIG AND PREVALENCE OF BORDETELLA BRONCHISEPTICA IN PNEUMONIC LUNGS IN BELGIAN FARMS. <u>A. Michiels</u><sup>1</sup>, E. De Jong<sup>1</sup>, E. Claeyé<sup>1</sup>, E. Rolly<sup>2</sup>, C. Bonckaert<sup>2</sup>, I. Galé<sup>3</sup>, D. Angelats<sup>3</sup> <sup>1</sup>HIPRA Benelux <sup>2</sup>DGZ-Vlaanderen, Torhout, Belgium <sup>3</sup>HIPRA HQ, Amer (Girona), Spain

#### BBD-PP-63

ERYSIPELOTHRIX RHUSIOPATHIAE IN AN AUSTRIAN EXTENSIVE PIG HUSBANDRY – A CASE REPORT <u>V. Martin</u><sup>1</sup>, C. Knecht<sup>1</sup>, A. Gager<sup>1</sup>, J. Spergser<sup>2</sup>, R. Brunthaler<sup>3</sup>, A. Ladinig<sup>1</sup>, L. Schwarz<sup>1</sup> <sup>1</sup>University Clinic for Swine, University of Veterinary Medicine Vienna, Austria <sup>2</sup>Institute of Microbiology, University of Veterinary Medicine Vienna, Austria <sup>3</sup>Institute of Pathology, University of Veterinary Medicine Vienna, Austria

#### BBD-PP-64

PERFORMANCE AND ECONOMY OF PIGLETS DURING POSTWEANING PERIOD AT AN ORGANIC FARM BEFORE AND AFTER USING AN INTRAMUSCULAR LAWSONIA INTRACELLULARIS VACCINE <u>F. Von Und Zur Mühlen</u><sup>1</sup>, R. Tabeling<sup>1</sup> <sup>1</sup>Intervet Deutschland GmbH; MSD Animal Health, Unterschleißheim, Germany

### BBD-PP-65

PREVALENCE OF CLOSTRIDIUM DIFFICILE IN POLISH SOW FARMS AND ITS ASSOCIATION WITH HERD SIZE <u>P. Cybulski</u><sup>1</sup>, A. Fórmanowski<sup>2</sup>, R. Kondratiuk<sup>1</sup>, P. Talaga<sup>1</sup>, E. Michalik<sup>1</sup>, O. Boix<sup>3</sup> <sup>1</sup>Goodvalley Agro S.A., Przechlewo, Poland <sup>2</sup>HIPRA, Warsaw, Poland <sup>3</sup>HIPRA, Amer, Spain

#### BBD-PP-66

PREVENTION STRATEGY FOR THE CONTROL OF LAWSONIA INTRACELLULARIS (LI) TO IMPROVE PRODUCTION PARAMETERS IN HEAVY PIGS

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#### BBD-PP-67

A MULTIFACTORIAL APPROACH FOR THE CONTROL OF CLINICAL PLEUROPNEUMONIA IN LARGE-SCALE FARMS A. Guardiola<sup>1</sup>, G. Roger<sup>1</sup>, M. Jiménez<sup>2</sup>, M. Marcos<sup>2</sup>, <u>R. Menjon<sup>2</sup></u> <sup>1</sup>JISAP

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#### BBD-PP-68

EPIDEMIOLOGICAL SURVEY OF THE LUNG LESIONS ASSOCIATED TO MYCOPLASMA HYOPNEUMONIAE AT THE SLAUGTHERHOUSE IN PIGS VACCINATED WITH DIFFERENT MHYO VACCINES IN SPAIN <u>I. Bernal</u><sup>1</sup>, R. Jordà<sup>1</sup>, J. Cantín<sup>1</sup>, D. Torrents<sup>1</sup> <sup>1</sup>HIPRA, Amer, Spain

BBD-PP-69

EARLY CHANGES IN STREPTOCOCCAL MENINGITIS FROM NATURALLY AFFECTED PIGS

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# EFFICACY OF DIETARY SELACID® GG MP AND WATER SUPPLEMENTATION OF SELKO®4HEALTH IN WEANED PIGS AGAINST S. SUIS SEROTYPE 9 CHALLENGE

L. Faba<sup>1</sup>, X. Guan<sup>2</sup>, F. Molist<sup>2</sup>, <u>M. Lingbeek<sup>1</sup></u>, J. Doelman<sup>1</sup>

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## BBD-PP-71

#### HISTOPATHOLOGICAL LESIONS FOUND IN SPLEENS IN FINISHERS WITH JAUNDICE

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#### BBD-PP-72

LUNGLESIONSEVALUATION, COMPARING 4 VACCINATION PROTOCOLS AGAINST MYCOPLASMA HYOPNEUMONIAE USING THE CEVA LUNG PROGRAM IN COLOMBIA

E. Vargas<sup>1</sup>, J. Calveyra<sup>2</sup>, <u>R. Krejci<sup>3</sup></u> <sup>1</sup>Ceva Animal Health, Colombia <sup>2</sup>Ceva Animal Health, Brazil <sup>3</sup>Ceva Animal Health, France

#### BBD-PP-73

DEVELOPMENT OF PERFORMANCE PARAMETERS AFTER CHANGING FROM ORAL VACCINATION AGAINST LAWSONIA INTRACELLULARIS TO INTRAMUSCULAR VACCINATION IN COMBINATION WITH A PCV M HYO RTU VACCINE

P. Schmidt<sup>1</sup>, <u>C. Renken</u><sup>2</sup>, F. Von Und Zur Mühlen<sup>2</sup>, R. Tabeling<sup>2</sup> <sup>1</sup>Vet-Team Reken, Reken <sup>2</sup>Intervet Deutschland GmbH; MSD Animal Health, Unterschleißheim, Germany

#### BBD-PP-74

PREVENTION OF CHRONIC LEPTOSPIROSIS INFECTIONS, REDUCING ANTIBIOTIC USE AND IMPROVING PRODUCTION PARAMETERS

A. Lopez<sup>1</sup>, M. Jiménez<sup>2</sup>, M. Marcos<sup>2</sup>, <u>R. Menjon<sup>2</sup></u> <sup>1</sup>JISAP <sup>2</sup>MSD Animal Health

#### BBD-PP-75

DETECTION OF VEROTOXIN-PRODUCING ESCHERICHIA COLI IN SELECTED POLISH WEANER FARMS A. Fórmanowski<sup>1</sup>, E. Barba-Vidal<sup>2</sup>, <u>P. Cybulski<sup>3</sup></u> <sup>1</sup>HIPRA, Warsaw, Poland <sup>2</sup>HIPRA, Amer, Spain <sup>3</sup>Goodvalley Agro S.A., Przechlewo, Poland

BBD-PP-76 COMPARISON OF TWO E. COLI VACCINES AND THEIR EFFECT ON DECREASING MORTALITY IN FARMS WITH S. SUIS CLINICAL DIAGNOSTIC <u>E. De Jong</u><sup>1</sup>, A. Michiels<sup>1</sup>, S. Van Poucke<sup>3</sup>, J. Vrielinck<sup>2</sup>, E. Barba-Vidal<sup>4</sup> <sup>1</sup>HIPRA Benelux <sup>2</sup>veterinarian, Belgium <sup>3</sup>Syn+ (Belgium) <sup>4</sup>HIPRA HQ, Amer (Girona), Spain

## HERD HEALTH MANAGEMENT AND ECONOMY

#### HHM-PP-01

EFFICACY OF ON-FARM REPAIRS OF UMBILICAL AND SCROTAL HERNIAS IN WEANED PIGS

P. Cybulski<sup>1</sup>, A. Jabłoński<sup>2</sup>, E. Michalik<sup>1</sup>

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#### HHM-PP-02

DEVELOPMENT OF A NEW PRACTICAL AND SYNTHETICAL CRITERIA FOR COLOSTRUM INTAKE EVALUATION IN COMMERCIAL FARMS

T. Solignac<sup>1</sup>, A. Durand<sup>2</sup>, B. Lahuec<sup>3</sup>, A. Gilet<sup>4</sup>, E. Lewandowski<sup>5</sup>, <u>P. Leneveu<sup>6</sup></u>

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#### HHM-PP-03

ASSESSMENT OF THE EFFECT OF INJECTABLE TOLTRAZURIL IN WEANING WEIGHT IN COCCIDIA POSITIVE FARMS IN PORTUGAL.

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HHM-PP-04

CASE STUDY: COMPARISON OF ROUTINE TREATMENTS WITH IRON-DEXTRAN INJECTION AND ORAL TOLTRAZURIL TO TREATMENT WITH A PRODUCT COMBINING GLEPTOFERRON AND TOLTRAZURIL FOR SINGLE INJECTION, FOR EFFECT ON NUMBER OF ANAEMIC PIGLETS AND BODYWEIGHT GAIN

P. Van Der Wolf<sup>1</sup>, G. De Reus<sup>1</sup>, H. Van Gisteren<sup>1</sup>, M. Kanters<sup>2</sup>, <u>S. Van Colen<sup>1</sup></u>

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#### HHM-PP-05

EFFECT OF AN EXTENDED PHOTOPERIOD ON THE HEALTH, TECHNICAL AND BEHAVIOURAL PARAMETERS OF NEWLY-WEANED PIGLETS

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HHM-PP-06

IMPACT OF AN ACUTE PRRS OUTBREAK AND STABILISATION OF REPRODUCTIVE PERFORMANCE AFTER IMPLEMENTATION OF A PRRS CONTROL PROGRAMME IN A NUCLEUS FARM IN SERBIA

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<sup>2</sup> Veterinary Specialist Institute "Sombor"

<sup>3</sup>Boehringer Ingelheim RCV GmbH & Co KG

#### USING SOUND-BASED MONITORING OF RESPIRATORY HEALTH STATUS TO IMPROVE GROW-FINISH PRODUCTION PERFORMANCE IN COMMERCIAL PIG FARMS

C. Alonso<sup>1</sup>, A. Ghysen<sup>2</sup>, S. Figueras Gourgues<sup>3</sup>, F. Erusalimsky<sup>2</sup>, T. Guiu<sup>4</sup>, A. Alegre<sup>4</sup>, S. Badia<sup>4</sup>, A. Fernandez-**Fontelo**<sup>5</sup>

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#### HHM-PP-08

#### CLINICAL TRICHURIASIS IN A FARM WITH EXTENSIVE HUSBANDRY - A CASE REPORT

M. Bünger<sup>1</sup>, R. Renzhammer<sup>1</sup>, A. Joachim<sup>2</sup>, B. Hinney<sup>2</sup>, R. Brunthaler<sup>3</sup>, J. Matt<sup>3</sup>, N. Nedorost<sup>3</sup>, C. Weissenbacher-Lana<sup>3</sup>, L. Schwarz<sup>1</sup>

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#### HHM-PP-09

#### UNDOCKED TAILS AT SLAUGHTER: EFFECTS ON LUNG AND STOMACH LESIONS

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#### HHM-PP-10

#### UPDATE ON THE SLAUGHTERHOUSE LUNG LESION EVALUATION DURING 2020 AND 2021 IN PORTUGAL.

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#### HHM-PP-11

#### CORRELATION BETWEEN MDA TRANSFER TEST AND DIFFERENT TECHNIQUES TO MEASURE COLOSTRUM INTAKE

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#### HHM-PP-12

EFFECT OF AN INJECTABLE TOLTRAZURIL - GLEPTOFERRON (FORCERIS) IN COMPARISON WITH COMBINED ORAL TOLTRAZURIL - INJECTABLE GLEPTOFERRON ON PRODUCTION PERFORMANCE IN 21 DAYS OLD PIGLETS IN A HIGH-HEALTH STATUS FARM IN POLAND

E. Michalik<sup>1</sup>, P. Cybulski<sup>1</sup>, K. Janeczko<sup>2</sup>, R. Lewko-Wojtowicz<sup>3</sup>, R. Panek<sup>3</sup>

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LITTER SIZE IS A WELL-MANAGEABLE (RISK) FACTOR FOR COLOSTRUM INTAKE ON DUTCH SOW FARMS

<u>J. Beek</u><sup>1</sup>, J. Miguel<sup>2</sup>, C. Jurjens<sup>3</sup>, M. Solé<sup>2</sup>, D. Llopart<sup>2</sup>, M. Wilhelm<sup>1</sup> <sup>1</sup>HIPRA Benelux <sup>2</sup>HIPRA, Amer, Spain <sup>3</sup>De Oosthof, The Netherlands

#### HHM-PP-14

NEONATAL DIARRHOEA - OCCURRENCE OF VIRAL AND BACTERIOLOGICAL PATHOGENS

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#### HHM-PP-15

#### BELGIAN PIGS "RAISED WITHOUT ANTIBIOTICS"

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#### HHM-PP-16

COLOSTRUM INTAKE ON FARMS WITH HIGH LOSS RATES OF LIVE BORN PIGLETS. ANALYSIS OF THE INFLUENCE OF BREEDING PRACTICES, HOMEOTHERMY OF PIGLETS AND COLOSTRUM PRODUCTION OF SOWS

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#### HHM-PP-17

IMPACT OF ALGAL BETA-1,3-GLUCAN ON VIABILITY OF NEWBORN PIGLETS UNDER THE SEGOVIA SUCKLING PIGLET GUARANTEED BRAND

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#### HHM-PP-18

SATISFACTION AND MOTIVATION REGARDING ERADICATION OF SWINE DYSENTERY

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#### HHM-PP-19

EARLY DIAGNOSTIC CAPABILITY OF A SOUND-BASED MONITORING TECHNOLOGY COMPARED TO ORAL FLUIDS SURVEILLANCE IN GROWING PIGS

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FIELD SURVEY ON THE USE OF ORAL IRON IN FRANCE: PRACTICES AND EVALUATION OF HEMOGLOBIN (HB) LEVEL IN PIGLETS AROUND WEANING

<u>S. Brilland</u><sup>1</sup>, J. Collet<sup>2</sup>, A. Maligorne<sup>3</sup>, W. Stynen<sup>4</sup>, C. Trombani<sup>5</sup>, N. Capdevielle<sup>1</sup>, A. Jardin<sup>1</sup>

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#### HHM-PP-21

MATERNALLY DERIVED IMMUNITY AGAINST SWINE ERYSIPELAS AND ITS APPLICATION AS A TOOL TO EVALUATE THE IMMUNE TRANSFER FROM SOW TO PIGLETS

M. Baratelli<sup>1</sup>, <u>D. Llopart</u><sup>1</sup>, A. Puigredón<sup>1</sup>, I. Ballarà<sup>1</sup>, I. Galè<sup>1</sup>, J. Miguel<sup>1</sup>, J. Bosch<sup>2</sup>, B. Gainza<sup>2</sup> <sup>1</sup>HIPRA HQ, Amer (Girona), Spain

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#### HHM-PP-22

# SLAUGHTERHOUSE VISUAL AND PALPATION METHOD FOR MONITORING ECONOMIC LOSSES OF PORCINE PROLIFERATIVE ENTEROPATHY (PPE) CAUSED BY LAWSONIA INTRACELLULARIS (LI)

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#### HHM-PP-23

A PRACTICAL TOOL TO ASSES TIME OF DEATH OF PIGLETS DURING GESTATION AND PARTURITION.

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#### HHM-PP-24

ASSESSMENT OF AN NSAID ADMINISTERED TO POSTPARTUM SOWS AND GILTS, TO EVALUATE PIGLET ZOO-TECHNICAL PERFORMANCE AND IGG TRANSFER.

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#### HHM-PP-25

BIOSECURITY MULTIDIMENSIONAL CHARACTERIZATION IN TWENTY FRENCH FARROW-TO-FINISH FARMS AND ASSOCIATION WITH HEALTH STATUS

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HHM-PP-26

GENOMIC REGIONS ASSOCIATED WITH RESILIENCE INDICATORS IN PIGS <u>H. Laghouaouta</u><sup>1</sup>, L. Fraile<sup>1</sup>, R. Suarez-Mesa<sup>1</sup>, R. Ros-Freixedes<sup>1</sup>, J. Estany<sup>1</sup>, R. Pena<sup>1</sup> <sup>1</sup>University of Lleida, Lleida, Spain

IMPACT OF FECAL CONSISTENCY SCORE ON FEED CONVERSION AND DAILY WEIGHT GAIN IN NURSERY PIGS

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#### HHM-PP-28

IMPACT OF SPLIT SUCKLING ON COLOSTRUM INTAKE: A FARM CASE WITH HIGH PROLIFICACY

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#### HHM-PP-29

MONITORING OF LEVELS OF TOTAL IMMUNOGLOBULINS IN COLOSTRUM AND SERA SAMPLES OF NEWBORN PIGLETS

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#### HHM-PP-30

PIG HEALTH INFO SYSTEM: SYSTEMATIC RECORDING AND ANALYSIS OF HEALTH-RELATED DATA

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#### HHM-PP-31

SMART PIG PRODUCTION - IMPROVING ANIMAL HEALTH AND COMPETITIVENESS ON ORGANIC AND CONVENTIONAL FARMS THROUGH THE USE OF 4.0 SENSOR TECHNOLOGY

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#### HHM-PP-32

EVALUATION OF ENTERIC DISEASE ON HEMOGLOBIN CONCENTRATIONS, COMPLETE BLOOD CELL COUNTS AND GROWTH IN PIGLETS

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#### HHM-PP-33

LOWER MATERNAL IMMUNITY TRANSFER IN PRIMIPAROUS VERSUS MULTIPAROUS LITTERS CAN BE EXPLAINED BY A COMBINATION OF SOW IMMUNITY STATUS AND SUBOPTIMAL COLOSTRUM INTAKE

<u>J. Beek<sup>1</sup></u>, J. Miguel<sup>3</sup>, C. Jurjens<sup>2</sup>, M. Solé<sup>3</sup>, D. Llopart<sup>3</sup>, M. Wilhelm<sup>1</sup> <sup>1</sup>HIPRA Benelux <sup>2</sup>De Oosthof, The Netherlands <sup>3</sup>HIPRA, Amer, Spain

RESPIRATORY HEALTH STATUS MEASURED BY A SOUND-BASED MONITORING TECHNOLOGY IMPACTS GROWTH OF FINISHING PIGS IN THE NETHERLANDS

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#### HHM-PP-35

#### RISK OF ACUTE ILEITIS IN GILTS IN HUNGARY - A FIELD STUDY

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#### HHM-PP-36

THE SALIVARY ANALYTICAL MODEL PREDICTS DISEASE BETTER THAN THE SERUM MODEL.

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#### HHM-PP-37

A FIRST APPROACH TO SALIVARY ANALYTICAL DIFFERENTIATION OF PATHOLOGICAL CONDITIONS IN THE PIG.

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#### HHM-PP-38

BACTERIOLOGICAL DISEASES AND ANTIMICROBIAL PRACTICES IN LARGE HUNGARIAN SWINE FARMS M. ágits<sup>1</sup>, <u>L. Buza</u><sup>2</sup>, I. Makkai<sup>2</sup>, P. Mate<sup>2</sup>, L. Ozsvari<sup>1</sup> <sup>1</sup>University of Veterinary Medicine Budapest, Hungary <sup>2</sup>MSD Animal Health Central-Europe region, Swine Business Unit (Hungary)

HHM-PP-39

CORRELATION BETWEEN COUGH ALARMS INDICATED BY A SOUND-BASED MONITORING TECHNOLOGY AND ORAL FLUIDS DIAGNOSTICS IN GROWING PIGS

C. Goodell<sup>1</sup>, K. Hogan<sup>1</sup>, <u>C. Alonso<sup>2</sup></u>, A. Fernandez-Fontelo<sup>3</sup>, D. Polson<sup>1</sup>

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HHM-PP-40

ECONOMIC ASSESSMENT OF A SOUND-BASED PRECISION LIVESTOCK FARMING TOOL (SOUNDTALKS) BASED ON TIMING OF INTERVENTION AFTER A DUAL MYCOPLASMA HYOPNEUMONIAE AND PRRS VIRUS SEEDER CHALLENGE IN PIGS

<u>D. Polson<sup>1</sup>, C. Alonso<sup>2</sup></u>

<sup>1</sup>Boehringer Ingelheim Animal Health USA Inc. <sup>2</sup>Boehringer Ingelheim

#### HHM-PP-41

EFFECT ON PRODUCTION PARAMETERS OF INTRAMUSCULAR VACCINATION AGAINST LAWSONIA INTRACELLULARIS IN A CHRONICALLY INFECTED FARM

M. Coma<sup>1</sup>, T. Rodriguez<sup>1</sup>, R. Menjon<sup>2</sup>, M. Marcos<sup>2</sup>, <u>M. Jiménez<sup>2</sup></u> <sup>1</sup>Cooperativa Plana de Vic, Spain <sup>2</sup>MSD Animal Health

# IDENTIFICATION OF NEONATAL DIARRHEA CAUSING AGENTS IN PORTUGUESE SWINE FARMS BETWEEN 2020 AND 2021.

<u>T.N. Nunes</u><sup>1</sup>, F. Costa<sup>1</sup>, D. Sperling<sup>2</sup> <sup>1</sup>Ceva Saúde Animal, Lda - Portugal <sup>2</sup>Ceva Santé Animale, 10 Avenue de la Ballastière, 33500 Libourne - France

### HHM-PP-43

# ILEITIS PREVALENCE AND SEROCONVERSION IN HUNGARY - A FIELD STUDY <u>P. Mate</u><sup>1</sup>, I. Makkai<sup>1</sup>, H. Swam<sup>2</sup>, L. Buza<sup>1</sup>, L. Ozsvari<sup>3</sup> <sup>1</sup>MSD Animal Health Central-Europe region, Swine Business Unit (Hungary)

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#### HHM-PP-44 IMPROVING PRODUCTIVE PARAMETERS IN SUCKLING PIGLETS AFTER USING A COMBO PRODUCT TO PREVENT ANAEMIA AND COCCIDIOSIS

T. Lopes<sup>1</sup>, P. Maiquez<sup>1</sup>, <u>S. Cárceles</u><sup>3</sup>, D. Espigares<sup>2</sup> <sup>1</sup>Piensos Galindo, Spain <sup>2</sup>Ceva Salud Animal <sup>3</sup>Ceva Salud Animal, Barcelona, Spain

#### HHM-PP-45

INVESTIGATION OF THE LUNG HEALTH AT THE SLAUGHTERHOUSE LEVEL FOR A BELGIAN PORCINE QUALITY LABEL <u>E. Libbrecht</u><sup>1</sup>, P. De Backer<sup>1</sup>, E. De Jonghe<sup>1</sup> <sup>1</sup>Ceva Santé Animale, Brussels, Belgium

HHM-PP-46

REAL TIME AUDITORY MONITORING USING SOUNDTALKS SUPPORTS OBJECTIVE DECISION ON POSSIBLE INTERVENTIONS IN FINISHING FACILITIES BASED ON ACCURATE DIAGNOSTIC DETECTION OF RESPIRATORY PATHOGENS

<u>P.H. Rathkjen</u><sup>1</sup>, P. Toft<sup>2</sup>, A. Fernandez-Fontelo<sup>3</sup>, C. Alonso<sup>4</sup> <sup>1</sup>Boehringer Ingelheim Animal Health Denmark <sup>2</sup>PORCUS Oerbaekvej 276, DK-5220 Odense <sup>3</sup> Humboldt-Universität zu Berlin School of Business and Economics Ladislaus von Bortkiewicz Chair of Statistics Unter den Linden 6 10099 Berlin Germany <sup>4</sup> Boehringer Ingelheim Vetmedica GmbH

HHM-PP-47 ASSOCIATING SWINE WEIGHT AND AGE AT WEANING WITH WEAN-TO-FINISH PIG DEATH T. Cheng<sup>1</sup>, W. Lopez<sup>2</sup>, <u>J. Angulo<sup>3</sup></u>, A. Arruda<sup>1</sup> <sup>1</sup>The Ohio State University <sup>2</sup>Pig Improvement Company (PIC) <sup>3</sup>Zoetis Inc, Parsippany, NJ, USA

#### HHM-PP-48

DETECTION OF DIFFERENT PATHOGENS IN TRACHEO-BRONCHIAL SWABS OF COUGHING SOWS ON 13 BELGIAN FARMS.

<u>E. De Jonghe<sup>1</sup></u>, E. Libbrecht<sup>1</sup>, P. De Backer<sup>1</sup>, S. Theuns<sup>2</sup> <sup>1</sup>Ceva Santé Animale, Brussels, Belgium <sup>2</sup>PathoSense, Ghent University, Faculty of Veterinary Medicine, Laboratory of Virology, Salisburylaan 133, 9820 Merelbeke

#### HHM-PP-49

# EFFICACY OF PRRS VACCINATION IN PIGLETS TO REDUCE PRRSV CLINICAL SIGNS AND TO IMPROVE PRODUCTION PARAMETERS

L. Martí<sup>1</sup>, A. Martínez<sup>1</sup>, R. Menjon<sup>2</sup>, M. Marcos<sup>2</sup>, <u>M. Jiménez<sup>2</sup></u> <sup>1</sup>Vall Companys S.A., Spain <sup>2</sup>MSD Animal Health

FIELD EVALUATION OF PIGLET'S HEMOGLOBIN CONCENTRATION AT WEANING AFTER USING DIFFERENT DOSES OF AN INJECTABLE GLEPTOFERRON-TOLTRAZURIL PRODUCT FOR THE CONTROL OF ANEMIA

<u>M. Remond</u><sup>1</sup>, L. Werner<sup>1</sup>, D. Ferreira<sup>2</sup>, C. Meymerit<sup>3</sup> <sup>1</sup>Epidalis, Avenue de la Promenade, 79 140 Cerizay, France <sup>2</sup>SOCSA ELEVAGE,1219 Route de Pau, 64410 Vignes <sup>3</sup>Interface Elevage, 1291 route de Pau, 64410 Vignes

#### HHM-PP-51

GLAESSERELLA (HAEMOPHILUS) PARASUIS PREVALENCE AND SEROCONVERSION ON THE HUNGARIAN SWINE FARMS - A FIELD STUDY

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#### HHM-PP-52

PROPHYLAXIS THROUGH INTRAMUSCULAR LAWSONIA VACCINATION IN CASE OF ACUTE LAWSONIA CLINIC FROM THE MIDDLE TO THE END OF THE FINISHING PERIOD – DEVELOPMENT OF PERFORMANCE PARAMETERS IN A FIELD CASE

K. Busen<sup>1</sup>, R. Tabeling<sup>2</sup>, <u>J. Vogels<sup>3</sup></u> <sup>1</sup>Veterinarian, veterinary practice Becker, Heek <sup>2</sup>Intervet Deutschland GmbH; MSD Animal Health, Unterschleißheim, Germany <sup>3</sup>Intervet Deutschland GmbH, MSD Animal Health, Unterschleißheim, Germany

#### HHM-PP-53

#### RELATIONSHIP BETWEEN ANEMIA AND VIT D STATUS IN SOWS AND PIGLETS

<u>S. Bhattarai</u><sup>1</sup>, S.S. Jacobsen<sup>1</sup>, J.P. Nielsen<sup>1</sup>

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#### HHM-PP-54

PREVALENCE AND SEVERITY OF ENZOOTIC PNEUMONIA AND PLEUROPNEUMONIA IN CZECH PIG FARMS BASED ON LUNG LESION SCORING IN 2021

<u>R. Krejci<sup>1</sup></u>, D. Sperling<sup>2</sup> <sup>1</sup>Ceva Sante Animale, France <sup>2</sup>Ceva Animal Health, France

#### HHM-PP-55

SAVING TIME OF LABOUR TO PREVENT ANAEMIA AND COCCIDIOSIS IN SUCKING PIGLETS USING AN INJECTABLE COMBINATION OF IRON AND TOLTRAZURIL

P. Maiquez<sup>1</sup>, T. Lopes<sup>1</sup>, <u>S. Cárceles</u><sup>2</sup>, D. Espigares<sup>2</sup> <sup>1</sup>Piensos Galindo, Spain <sup>2</sup>Ceva Salud Animal, Barcelona, Spain

#### HHM-PP-56

THE PREVALENCE OF ILEITIS IN HUNGARIAN SWINE FARMS ACCORDING TO SLAUGHTERHOUSE ILEUM (ENTERIPIG) EXAMINATIONS

<u>R. Kondor</u><sup>1</sup>, I. Makkai<sup>2</sup>, P. Mate<sup>2</sup>, L. Buza<sup>2</sup>, H. Swam<sup>3</sup>, L. Ozsvari<sup>1</sup> <sup>1</sup>University of Veterinary Medicine Budapest, Hungary <sup>2</sup>MSD Animal Health Central-Europe region, Swine Business Unit (Hungary)

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HHM-PP-57

FIELD STUDY TO COMPARE THREE TWO-SHOTS VACCINE SOLUTIONS TO IMMUNISE PIGLETS AGAINST M.HYO AND PCV2

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LUNG LESION SURVEY USING CEVA LUNG PROGRAM IN RUSSIA: RESULTS 2020 - 2021

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#### HHM-PP-59

SURVEY ON FARROWING MANAGEMENT AND REPRODUCTIVE PERFORMANCE IN SOWS IN A FREE FARROWING SYSTEM

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#### HHM-PP-60

YEARLY EVALUATION OF LUNG LESIONS IN SLAUGHTER PIGS IN EUROPE

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#### HHM-PP-61

CONTACTS POSING RISKS OF DISEASE INTRODUCTION IN SWINE BREEDING HERDS IN QUEBEC, CANADA: IS FREQUENCY OF CONTACTS ASSOCIATED WITH BIOSECURITY MEASURES IMPLEMENTED?

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#### HHM-PP-62

COMPARISON AT FARM LEVEL OF LUNGS LESIONS SCORING DEPENDING OF MYCOPLASMA HYOPNEUMONIAE VACCINE USED

C. Spindler<sup>1</sup>, A. Lefebvre<sup>1</sup>, J.C. Lorgere<sup>2</sup>, B. Maynard<sup>3</sup>, M. Charles<sup>3</sup>, <u>P. Leneveu<sup>4</sup></u>

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#### HHM-PP-63

EVALUATION OF DIFFERENT TREATMENTS FOR COCCIDIOSIS AND IRON DEFICIENCY ANAEMIA ON PIGLET BODY WEIGHT AT WEANING

C. Molina<sup>1</sup>, D. Espigares<sup>2</sup>, <u>L. Garza<sup>2</sup></u> <sup>1</sup>UVESA, Málaga, Spain <sup>2</sup>Ceva Salud Animal, Barcelona, Spain

#### HHM-PP-64

#### PIGLETS COCCIDIOSIS IN FRENCH FARMS- EVALUATION OF FARM POSITIVITY BY NEWLY DEVELOPED QPCR

<u>S. Brilland<sup>1</sup></u>, M. Retureau<sup>2</sup>, C. Giacottino<sup>2</sup>, D. Descamps<sup>2</sup>, J. Houlbert<sup>2</sup>, L. Lecarpentier<sup>2</sup>, L. Cohonner<sup>3</sup>, J. Le Guennec<sup>4</sup>, P. Moalic<sup>4</sup>, M. Hillion<sup>4</sup>, Z. Homonnay<sup>5</sup>, I. Kiss<sup>5</sup>, D. Sperling<sup>1</sup>

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# HHM-PP-65 USING DEFINED DAILY DOSES (DDDVET) TO MONITOR THE USE OF INJECTABLE ANTIBIOTICS AMONG FATTENING PIGS IN FINLAND <u>V. Talvitie</u>', I. Toppari<sup>1</sup> 'Animal Health ETT

#### HHM-PP-66

EFFICACY OF A COMBINED INJECTABLE GLEPTOFERRON AND TOLTRAZURIL IN SUCKLING PIGLET DIARRHOEA CONTROL AND ITS GROWING PERFORMANCE <u>C. Casanovas</u><sup>1</sup>, S. Oliver<sup>1</sup>, S. Cárceles<sup>1</sup>, L. Garza<sup>1</sup>, D. Espigares<sup>1</sup> <sup>1</sup>Ceva Salud Animal, Barcelona, Spain

#### HHM-PP-67

SURVEY ON PATHOGEN DIVERSITY AND VACCINATION PRACTICES IN 16 LARGE HUNGARIAN SWINE FARMS <u>Z. Danyi</u><sup>1</sup>, L. Buza<sup>2</sup>, P. Mate<sup>2</sup>, I. Makkai<sup>2</sup>, L. Ozsvari<sup>1</sup> <sup>1</sup>University of Veterinary Medicine Budapest, Hungary <sup>2</sup>MSD Animal Health Central-Europe region, Swine Business Unit (Hungary)

#### IMMUNOLOGY AND VACCINOLOGY

#### IMM-PP-01

IMPACT OF EARLY-LIFE CHANGES ON PIGS' HEALTH, GROWTH AND WELFARE IN A COMMERCIAL FARM.

<u>S. Gavaud</u><sup>1</sup>, K. Haurogné<sup>1</sup>, A. Buchet<sup>2</sup>, I. Garcia-Vinado<sup>3</sup>, M. Allard<sup>1</sup>, M. Leblanc-Maridor<sup>4</sup>, J. Bach<sup>1</sup>, C. Belloc<sup>4</sup>, B. Lieubeau<sup>1</sup>, J. Hervé<sup>1</sup> IIECM, USC 1383, Oniris, INRAE

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#### IMM-PP-02

TWO APPROACHES FOR WARMING THE VACCINE BEFORE USE <u>M. Schyns</u><sup>1</sup>, T. Cruijsen<sup>1</sup>, S. Agten<sup>1</sup> <sup>1</sup>MSD AH Benelux, Boxmeer, the Netherlands

IMM-PP-03 ASSESSMENT OF MICROBIAL CONTAMINATION IN INJECTION DEVICES AT FARM LEVEL IN PORTUGUESE SWINE FARMS

<u>T.N. Nunes</u><sup>1</sup>, J. Ceia<sup>2</sup>, F. Costa<sup>1</sup>, P. Mortensen<sup>3</sup> <sup>1</sup>Ceva Saúde Animal, Lda - Portugal <sup>2</sup>Valsabor, S.A. - Alcanede (Portugal) <sup>3</sup>Ceva Corporate Swine Team

#### IMM-PP-04

ASSESSMENT OF SIDE EFFECTS AFTER HETEROLOGOUS CHALLENGE WITH PRRSV-1 MLV IN PREGNANT GILTS AT THE LAST STAGE OF GESTATION

<u>G. Papakonstantinou</u><sup>2</sup>, E. Meletis<sup>1</sup>, G. Christodoulopoulos<sup>2</sup>, E. Tzika<sup>3</sup>, P. Kostoulas<sup>1</sup>, P. Tassis<sup>3</sup>, V. Papatsiros<sup>4</sup> <sup>1</sup>Laboratory of Epidemiology & Artificial Intelligence, Faculty of Public Health, School of Health Sciences, University of Thessaly, Karditsa, 43100, Greece

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IMM-PP-05

# EVALUATION OF THE EFFICACY OF A CLOSTRIDIUM PERFRINGENS TYPE A/C TOXOID VACCINE FOR PIGS UNDER LABORATORY AND FIELD CONDITIONS

<u>S. Springer</u><sup>1</sup>, R. Fricke<sup>1</sup>, O. Bastert<sup>1</sup>, J. Finzel<sup>1</sup>, T. Linder<sup>1</sup>, T. Theuss<sup>1</sup>, V. Florian<sup>1</sup>, D. Sperling<sup>2</sup> <sup>1</sup>Ceva Santé Animale, Dessau-Rosslau, Germany <sup>2</sup>Ceva Santé Animale SA, 10 Avenue de la ballastière, CS 30126 – 33501 Libourne Cedex, France

IMPACTS OF QUARTERLY SOW MASS VACCINATION (SMV) AGAINST PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME VIRUS TYPE 1 (PRRSV-1) IN TWO HERDS

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#### IMM-PP-07

INCONSISTENT DETECTION OF PPVI-SPECIFIC ANTIBODIES IN SOWS VACCINATED WITH DIFFERENT PPV-VACCINES – TIME TO RECONSIDER VACCINATION REGIMES?

R. Renzhammer<sup>2</sup>, U. Truyen<sup>1</sup>, G. Baumgartner<sup>2</sup>, M. Koch<sup>2</sup>, A. Ladinig<sup>2</sup>, C. Unterweger<sup>2</sup>

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#### IMM-PP-08

CO-ADMINISTRATION OF A MODIFIED LIVE PRRS VIRUS 1 VACCINE AND AN IMMUNOMODULATOR COMPOSED BY PROPIONIBACTERUM GRANULOSUM AND DETOXIFIED LPS ENHANCES VIRUS-SPECIFIC INTERFERON-GAMMA RESPONSES IN PIGLETS WITH MATERNALLY-DERIVED ANTIBODIES.

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#### IMM-PP-09

SEROLOGICAL RESPONSE AFTER DOUBLE VACCINATION WITH MHYOSPHERE PCV ID OF REPLACEMENT GILTS ON A BREEDING FARM UNSUSPECTED OF MYCOPLASMA HYOPNEUMONIAE INFECTIONS K. Visscher<sup>1</sup>, <u>V. Thuring<sup>1</sup></u>, L. Peeters<sup>2</sup>, I. Bernal<sup>3</sup>, M. Solé<sup>3</sup>, D. Llopard<sup>3</sup>, M. Wilhelm<sup>2</sup> <sup>1</sup>Coöperatie VARKENSARTSEN <sup>2</sup> HIPRA Benelux <sup>3</sup> HIPRA, Amer, Spain

#### IMM-PP-10

FIELD EVALUATION OF THE INFECTION PRESSURE REDUCING EFFECT OF A PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME (PRRS) MODIFIED LIVE VACCINE WHEN APPLIED TO PIGLETS IN EUROPEAN ENDEMICALLY INFECTED FARMS

L. De Lucas<sup>1</sup>, A. Michiels<sup>2</sup>, E. Claeyé<sup>2</sup>, E. De Jong<sup>2</sup>, D. Angelats<sup>1</sup>, V.D. Azeitona Martins<sup>3</sup> <sup>1</sup>HIPRA HQ, Spain <sup>2</sup>HIPRA Benelux

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#### IMM-PP-11

IMPROVED PIGLET PERFORMANCE AND REDUCED MORTALITY AND ANTIMICROBIAL USE FOLLOWING ORAL VACCINATION WITH A LIVE NON-PATHOGENIC E. COLI F4/F18 VACCINE AGAINST PWD

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#### IMM-PP-12

INTRADERMAL AND INTRAMUSCULAR VACCINATION AGAINST PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME WITH MODIFIED LIVE VACCINE CONFER SIMILAR IMMUNE RESPONSE IN PRESENCE OF MATERNALLY-DERIVED ANTIBODIES

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EFFECT OF THE ADJUVANT OF A COMMERCIAL MYCOPLASMA HYOPNEUMONIAE VACCINE ON THE INNATE IMMUNE RESPONSE

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#### IMM-PP-14

NON-INFERIORITY TRIAL EVALUATING THE EFFICACY OF A TRIVALENT VACCINE CONTAINING PORCINE CIRCOVIRUS TYPES 2A/2B AND MYCOPLASMA HYOPNEUMONIAE COMPARING THE ADMINISTRATIONS BY CONVENTIONAL NEEDLE-SYRINGE AND TWO DIFFERENT NEEDLE-FREE INJECTORS

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#### IMM-PP-15

PERFORMANCE OF VACCINATION AGAINST LAWSONIA INTRACELLULARIS IN IBERIAN GENETIC PIGS: BEYOND THE DOI

<u>M. Marcos</u><sup>1</sup>, M. Jiménez<sup>1</sup>, R. Menjon<sup>1</sup>, E. Pérez<sup>2</sup>, J.M. Hernández<sup>2</sup>, R. García Gayo<sup>2</sup> <sup>1</sup>MSD Animal Health <sup>2</sup>Ibéricos de Arauzo. Madrid, España

#### IMM-PP-16

SAFETY AND EFFICACY OF PCV2 AND M.HYO VACCINES MIXED TOGETHER IN THE PROTECTION AGAINST EXPERIMENTAL INFECTIONS

<u>M. Sno</u><sup>1</sup>, L. Bodnar<sup>1</sup>, N. Palmai<sup>1</sup>, T. Szalai<sup>1</sup>, P. Trampus<sup>1</sup>, A. Toth<sup>1</sup>, R. Krejci<sup>2</sup> <sup>1</sup>Ceva Phylaxia, Budapest, Hungary <sup>2</sup>Ceva Sante Animale, France

#### IMM-PP-17

SEROLOGICAL MONITORING OF MYCOPLASMA HYOPNEUMONIAE VACCINATION UPTAKE USING A NEW ELISA KIT <u>R. Krejci</u><sup>1</sup>, F. Donnet<sup>2</sup>, L. Comtet<sup>2</sup>, I. Kiss<sup>3</sup>, H. Smits<sup>3</sup> <sup>1</sup>Ceva Sante Animale, France <sup>2</sup>IDvet – Innovative Diagnostics, Grabels, France <sup>3</sup>Ceva Sante Animale, Scientific Support and Investigation Unit, Ceva-Phylaxia Ltd., Budapest, Hungary

#### IMM-PP-18

CONTROL OF A 27-A LIKE PORCINE PARVOVIRUS (PPV) STRAIN IN A FRENCH HERD E. Beneteau<sup>1</sup>, <u>I. Messager</u><sup>2</sup>, R. Jagu<sup>2</sup>

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#### IMM-PP-19

CAN THE TREATMENT OF SOWS DURING LACTATION HELP IN THE PPE CONTROL? A CASE REPORT.

J.M. Flores Barriga<sup>1</sup>, A. Rastrojo Ortigosa<sup>1</sup>, G. Abella Falcó<sup>2</sup>, E. Sanchez Tarifa<sup>2</sup>, <u>V. Rodríguez-Vega<sup>2</sup></u> <sup>1</sup>Inga food Extremadura. Almendralejo, Spain

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# IMM-PP-20 COMPARATIVE PCV2 HUMORAL IMMUNE RESPONSE TO TWO INTRADERMAL PCV2 VACCINES

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# IMM-PP-21

EFFECT OF VACCINATION ON TEST OUTCOME IN DIFFERENT DIAGNOSTIC ELISAS FOR ACTINOBACILLUS PLEUROPNEUMONIAE

K. Visscher<sup>1</sup>, <u>V. Thuring<sup>1</sup></u>, K. Koenders<sup>2</sup>, S. Kars-Hendriksen<sup>3</sup>, T. Cruijsen<sup>4</sup>

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#### IMM-PP-22

EFFICACY OF DIFFERENT PCV2 AND MHYO COMBINED VACCINES AGAINST PCV2 OR MYCOPLASMA HYOPNEUMONIAE EXPERIMENTAL INFECTIONS

I. Kiss<sup>4</sup>, K. Szigeti<sup>1</sup>, E. Kovács<sup>1</sup>, F. Balázs<sup>2</sup>, M. Albert<sup>3</sup>, H. Smits<sup>4</sup>, R. Krejci<sup>5</sup>

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#### IMM-PP-23

# MONITORING OF ANTIGEN QUANTIFICATION IN THE RECONSTITUTED AND MIXED PCV/M.HYO PRODUCT.

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#### IMM-PP-24

THE IMPACT OF DIETARY POTASSIUM DIFORMATE IN THE LACTATION DIET OF SOWS ON THE SUPPLY OF MILK-IGA TO SUCKLING PIGLETS

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IMM-PP-25

ACUTE-PHASE PROTEINS IN RESPONSE TO SALMONELLA TYPHIMURIUM CHALLENGE IN VACCINATED PIGLETS

F.A. Moreira Petri<sup>1</sup>, C.H. Turco<sup>1</sup>, D. Gomes Da Silva<sup>1</sup>, E.A. Goncalves De Oliveira Moura<sup>1</sup>, H. Meiroz De Souza Almeida<sup>1</sup>, G.Y. Storino<sup>1</sup>, <u>K. Sonalio<sup>1</sup></u>, M. Lopes Mechler-Dreibi<sup>1</sup>, L.G. De Oliveira<sup>1</sup>

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### IMM-PP-26

COMPARISON OF THE PROTECTION AGAINST PCV2 OR MYCOPLASMA HYOPNEUMONIAE EXPERIMENTAL INFECTIONS WITH INJECTABLE OR INTRADERMAL PCV2/M.HYO VACCINES

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CONVENIENCE AND ECONOMIC BENEFIT OF EARLY ONE-SHOT MYCOPLASMA HYOPNEUMONIAE VACCINATION AT 3 DAYS OF AGE IN A COMMERCIAL SOW FARM

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#### IMM-PP-28

EFFECT OF IMMUNIZATION AGAINST GONADOTROPIN-RELEASING FACTOR (GNRF) ON GROWTH PERFORMANCE AND CARCASS GRADE IN HEAVIER FATTENING GILTS

W. Navasakuljinda<sup>1</sup>, P. Wongchanapai<sup>1</sup>, J. Thongkaew<sup>1</sup>, N. Saikaew<sup>1</sup>, R. Tapaopong<sup>1</sup>, <u>C.K. Mah<sup>2</sup></u> <sup>1</sup>Zoetis (Thailand) Limited, Bangkok 10500, Thailand <sup>2</sup>Zoetis Dublin, Ireland D18 T3Y1

#### IMM-PP-29

EFFICACY OF PCV2A VACCINES ADMINISTERED SEPARATELY OR MIXED WITH M.HYO COMPONENT IN THE PROTECTION AGAINST AN EXPERIMENTAL PCV2D INFECTION

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#### IMM-PP-30

ACUTE PHASE PROTEINS IN RESPONSE TO MYCOPLASMA HYOPNEUMONIAE CHALLENGE IN PIGLETS WITH DIFFERENT IMMUNIZATION PROTOCOLS

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#### IMM-PP-31

CASE REPORT: SUCCESSFUL CONTROL OF PCV2 CLINICAL INFECTION WITH A NEW INTRADERMAL MHYO/PCV2 VACCINE ON A NON-VACCINATED FARM

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#### IMM-PP-32

IMPROVEMENT OF THE IMMUNE RESPONSE TO MESOMYCOPLASMA HYOPNEUMONIAE VACCINATION IN PIGLETS AFTER IMMUNIZING SOWS AGAINST PANDEMIC INFLUENZA

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#### IMM-PP-33

INFLUENCE OF SACCHAROMYCES CEREVISIAE BOULARDII CNCM I-1079 ON IGA PRODUCING CELLS NUMBER AFTER VACCINATION AGAINST ACTINOBACILLUS PLEUROPNEUMONIAE

<u>G. Ramis<sup>1</sup></u>, B. Gonzalez-Guijarro<sup>1</sup>, F. Pallarés-Martínez<sup>2</sup>, E. Chevaux<sup>3</sup>, M. Castex<sup>3</sup>, P. Lebreton<sup>3</sup>, D. Saornil<sup>3</sup>, F. Bravo De Laguna<sup>3</sup>

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REDUCTION ON LAWSONIA INTRACELLULARIS FAECAL SHEDDING IN PIGS CHRONICALLY INFECTED AFTER INTRAMUSCULAR VACCINATION AGAINST LAWSONIA INTRACELLULARIS

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#### IMM-PP-35

REGULATION OF THE GUT INTEGRITY AND MICROBIAL PROFILE OF POST-WEANING PIGS WITH THE ADMINISTRATION OF ETEC F4/F18 BIVALENT VACCINE

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#### IMM-PP-36

SUBACUTE EDEMA DISEASE: POSITIVE EFFECT OF THE VACCINATION AGAINST SHIGATOXIN STX2E ON PERFORMANCES.

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#### IMM-PP-37

A STUDY OF POSTVACCINATION ANTIBODY RESPONSE AGAINST LEPTOSPIRA USING MICROSCOPIC AGGLUTINATION TEST (MAT) <u>A. Ortega<sup>1</sup></u>, I. Perez<sup>1</sup>, M. Jiménez<sup>2</sup>, M. Marcos<sup>2</sup>, C. Llorente<sup>2</sup>, R. Menjon<sup>2</sup> <sup>1</sup>Agropecuaria Obanos

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IMM-PP-38

ASSESSMENT OF PORCINE LUNG LESIONS AT SLAUGHTER FROM BATCHES VACCINATED WITH TWO DIFFERENT COMMERCIAL MYCOPLASMA HYOPNEUMONIAE VACCINES

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#### IMM-PP-39

PERFORMANCE AND ROI AFTER INTRAMUSCULAR LAWSONIA INTRACELLULARIS VACCINATION COMPARED TO ORAL VACCINATION

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IMM-PP-40 REPETITIVE MYCOFLEX VACCINATION RESULTS IN ANTIBODY SEROCONVERSION

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<sup>3</sup>Boehringer Ingelheim Vetmedica GmbH

ASSESSMENT OF ANTIBODY LEVELS IN HYPERPROLIFIC SOWS RECEIVING DIFFERENT VACCINATION PROTOCOLS AGAINST NEONATAL PIGLET DIARRHEA CAUSED BY ENTEROTOXIC ESCHERICHIA COLI (ETEC) J. Grandia Anso<sup>1</sup>, M. Jiménez<sup>2</sup>, M. Marcos<sup>2</sup>, <u>R. Menjon<sup>2</sup></u> <sup>1</sup>ANDRIMNER Spain <sup>2</sup>MSD Animal Health

#### IMM-PP-43

COMPARATIVE EFFICACY STUDY OF THREE COMMERCIAL PRRS-1 MLV VACCINATION AT 21 DAYS OF AGE AGAINST CHALLENGE WITH A EUROPEAN PRRSV ISOLATE IN PIGS

C.K. Mah<sup>1</sup>, J. Angulo<sup>3</sup>, E. Scott-Baird<sup>2</sup>, L. Hancox<sup>5</sup>, A. Aldaz<sup>3</sup>, M. Balasch<sup>4</sup>, G. Rivero<sup>5</sup>

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#### IMM-PP-44

EXPLORATORY FIELD STUDY ON THE EFFECTS OF SOW VACCINATION AGAINST PRRSV USING COMBINED PROTOCOLS ON PIGLET VIRAEMIA AT WEANING

C. Agüero<sup>1</sup>, S. Mesonero-Escuredo<sup>2</sup>, D. Espigares<sup>2</sup>, <u>L. Garza<sup>2</sup></u> <sup>1</sup>UVESA, Valladolid, España <sup>2</sup>Ceva Salud Animal, Barcelona, Spain

#### IMM-PP-45

THE ROLE OF ANTIGEN-SPECIFIC T CELLS IN PARASITE DISTRIBUTION AND PREDISPOSITION TO ASCARIS SUUM IN PIGS

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#### IMM-PP-46

FIELD ASSESSMENT OF TWO PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME (PRRS) MODIFIED-LIVE VACCINES BASED ON MEASUREMENTS OF SEROLOGIC RESPONSE AND REPRODUCTIVE OUTCOMES IN VACCINATED SOWS

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#### IMM-PP-47

COMPARISON OF THE EFFICACY AGAINST MYCOPLASMA HYOPNEUMONIAE (MHYO) AND PORCINE CIRCOVIRUS TYPE 2 (PCV2) OF TWO DIFFERENT VACCINE PROTOCOLS: CIRCOVAC® AND HYOGEN® VERSUS INTRADERMAL PCV2 AND M.HYO VACCINES.

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IMM-PP-48

QUALITY OF THE EMULSION AFTER MIXING PCV2 AND M.HYO INACTIVATED VACCINES

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EVALUATION OF TWO VACCINATION PROTOCOLS AGAINST PCV2 AND MYCOPLASMA HYOPNEUMONIAE COMPARING GROWTH PERFORMANCE DATA

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#### IMM-PP-50

POSITIVE IMPACT ON HEALTH CONDITION AND BIOLOGICAL PERFORMANCE OF SOWS AND PIGLETS AFTER IMPLEMENTATION OF AN INACTIVATED PANDEMIC INFLUENZA VACCINE

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#### IMM-PP-51

EVALUATION OF DIFFERENT VACCINATION STRATEGIES FOR SOWS AND THEIR PIGLETS. D. Carrascón<sup>1</sup>, M. Valero<sup>1</sup>, T. Ermoshina<sup>2</sup>, A. Blasco<sup>3</sup>, A. Morillo<sup>1</sup> <sup>1</sup>Tests and Trials S.L.U, 22400, Monzón, Huesca, Spain. <sup>2</sup>Veterinarian independent <sup>3</sup>GEICAM, 28703, San Sebastián de los Reyes, Madrid

### IMM-PP-52

SAFETY COMPARISON AFTER ADMINISTRATION OF TWO SWINE ERYSIPELAS MONOVALENT VACCINES IN FATTENING PIGS

J. Miguel<sup>1</sup>, <u>D. Torrents</u><sup>2</sup>, J.R. Pérez De Vargas<sup>2</sup>, M. Solé<sup>1</sup>, S. Milán<sup>3</sup> <sup>1</sup>HIPRA HQ, Amer (Girona), Spain <sup>2</sup>HIPRA Spain <sup>3</sup>Sergio Milán Servicios Veterinarios

#### IMM-PP-53

CLINICAL CASE WITH DIFFERENTIAL DIAGNOSIS OF PCV2 AND SALMONELLA IN A BRAZILIAN FARM M. Souza<sup>2</sup>, W. Costa<sup>2</sup>, <u>R. Krejci<sup>1</sup></u>, J. Calveyra<sup>2</sup> <sup>1</sup>Ceva Animal Health, France

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#### IMM-PP-54

VACCINATION WITH A NEW MYCOPLASMA HYOPNEUMONIAE AND PCV2 INTRADERMAL VACCINE IN LARGE UKRAINIAN FARM

<u>O. Romanov</u><sup>1</sup>, L. Dudar<sup>2</sup>, A. Vasyliv<sup>1</sup>, I. Serdiuk<sup>3</sup>, D. Angelats<sup>4</sup>, I.B. Orozco<sup>5</sup> <sup>1</sup>Technical Services Manager Swine Business Unit HIPRA CIS <sup>2</sup>Regional Technical Services manager in CIS, HIPRA <sup>3</sup>Technical Services Manager Swine Business Unit HIPRA Ukraine <sup>4</sup>HIPRA, Amer, Spain

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#### IMM-PP-55

COMPARATIVE PARALLEL FIELD TRIAL OF A NEW INTRADERMAL M.HYO/PCV2 VACCINE IN UKRAINE

O. Romanov<sup>1</sup>, L. Dudar<sup>2</sup>, A. Vasyliv<sup>1</sup>, I. Serdiuk<sup>3</sup>, D. Angelats<sup>4</sup>, I.B. Orozco<sup>5</sup>

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#### IMM-PP-56

FIELD OBSERVATION ON THE IMMUNIZATION EFFECT OF A TRIVALENT VACCINE CONTAINING PORCINE CIRCOVIRUS TYPE 2A2B AND MYCOPLASMA HYOPNEUMONIAE IN 3 FARMS IN PHILIPPINES

A.V. Macasaet<sup>1</sup>, J. Alivio<sup>1</sup>, <u>C.K. Mah<sup>2</sup></u> <sup>1</sup>Zoetis Philippines, Taguig City 1634, Philippines <sup>2</sup>Zoetis Dublin, Ireland D18 T3Y1

CLINICAL CASE REPORT: DIFFERENTIAL DIAGNOSIS TO CONFIRM CLINICAL SUSPICION IN THE SALMONELLA AND PCV2 INFECTION ON A COLOMBIA'S FARM

E. Vargas<sup>1</sup>, J. Calveyra<sup>2</sup>, <u>R. Krejci<sup>3</sup></u> <sup>1</sup>Ceva Animal Health, Colombia <sup>2</sup>Ceva Animal Health, Brazil

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# **MISCELLANEOUS**

# MIS-PP-01

EARLY UMBILICAL BACTERIAL INFECTIONS IN PIGLETS ARE HARD TO DIAGNOSE THROUGH CLINICAL EXAMINATION I. Larsen<sup>1</sup>, K. Barington<sup>1</sup>, E. Kudirkiene<sup>2</sup>, K.T. Hartmann<sup>1</sup>, H.E. Jensen<sup>1</sup>, J.E. Olsen<sup>1</sup>, J.P. Nielsen<sup>1</sup>, K.S. Pedersen<sup>1</sup> <sup>1</sup>Department of Veterinary and Animal Sciences, Faculty of Health and Medical Sciences, University of Copenhagen, Grønnegårdsvej 2, DK-1870 Frederiksberg C, Denmark <sup>2</sup>Bacteria, Parasites & Fungi, Statens Serum Institut, Artillerivej 5, DK-2300 Kbh. S., Denmark

### MIS-PP-02

SEARCHING FOR A BIOMARKER FOR GASTRIC LESIONS IN PIGS

L, Dieste-Pérez<sup>1</sup>, L, Bosma<sup>1</sup>, X, Benthen De Grave<sup>2</sup>, K, Junker<sup>1</sup>, F, Bikker<sup>3</sup>

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MIS-PP-03

#### HAEMORRHAGIC DIATHESIS IN PIGLETS: AN ATTEMPT TO DECIPHER THE CAUSES

L. Dieste-Pérez<sup>1</sup>, E. Van Der Vries<sup>1</sup>, M. Houben<sup>1</sup>, T. Geudeke<sup>1</sup>, K. Junker<sup>1</sup>, L. Bosma<sup>1</sup> <sup>1</sup>Royal GD, Deventer, The Netherlands

#### MIS-PP-04

FEEDING BEHAVIOR OF NEWLY WEANED PIGLETS K. Venrooij<sup>1</sup>, L. Faba<sup>1</sup> <sup>1</sup>Trouw Nutrition R&D, The Netherlands

MIS-PP-05 IMPROVED DIAGNOSIS OF CLOSTRIDIUM PERFRINGENS AND CLOSTRIDIUM DIFFCILE IN CASES OF NEONATAL **DIARRHOEA IN PIGLETS** L. Valls<sup>1</sup>, M. Baratelli<sup>1</sup>, J. Maldonado<sup>1</sup>, O. Boix<sup>1</sup> <sup>1</sup>HIPRA, Amer (Girona), Spain

#### MIS-PP-06

BACTERIOLOGICAL AND VIROLOGICAL EXAMINATION OF FECAL SAMPLES COLLECTED FROM SUCKLING PIGLETS AFFECTED BY DIARRHOEA IN GERMANY DURING 2019-2020

V. Cvjetković<sup>1</sup>, K. Dohmann<sup>2</sup>, K. Golacz<sup>1</sup>, D. Sperling<sup>3</sup>

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#### MIS-PP-07

COMPARATIVE EFFICACY OF DIFFERENT IRON-BASED PRODUCTS IN THE PREVENTION OF ANEMIA IN SUCKLING PIGLETS

H. Karembe<sup>1</sup>, A. Geneteau<sup>2</sup>, D. Sperling<sup>1</sup> <sup>1</sup>Ceva Santé Animale, 10 Avenue de la Ballastière, 33500 Libourne - France

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#### MIS-PP-08

FIRST RESULTS OF THE CYSTOISOSPORA SUIS QPCR ASSAY ON 5 BELGIAN FARMS

E. Libbrecht<sup>1</sup>, P. De Backer<sup>1</sup>, E. De Jonghe<sup>1</sup> <sup>1</sup>Ceva Santé Animale, Brussels, Belgium

### MIS-PP-09

INTERACTIVE ON A PIG FARM - 360° VIDEOS IN HERD HEALTH MANAGEMENT EDUCATION

U. Gerster<sup>2</sup>, J. Durán Porras<sup>1</sup>, F. Kalberer<sup>1</sup>, S. Schwarz<sup>1</sup>, H. Nathues<sup>2</sup>, <u>A. Grahofer<sup>2</sup></u> <sup>1</sup>iLUB, Support Center for ICT-Aided Teaching and Research, University of Bern, Switzerland <sup>2</sup> Clinic for Swine, Vetsuisse Faculty, University of Bern, Bern, Switzerland

#### MIS-PP-10

CONCENTRATION OF OXYTETRACYCLINE IN PIG MILK EVALUATED BY ULTRA-HIGH PERFORMANCE LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY (UHPLC-MS/MS)

P. Cybulski<sup>1</sup>, A. Gajda<sup>2</sup>, M. Bilecka<sup>2</sup>, M. Gbylik-Sikorska<sup>2</sup>

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#### MIS-PP-11

DIAGNOSIS, THERAPY AND PROPHYLAXIS OF CONJUNCTIVITIS IN PIGS - A SURVEY OF AUSTRIAN PIG PRACTITIONERS C. Riemann<sup>1</sup>, <u>C. Unterweger<sup>1</sup></u>

<sup>1</sup>University Clinic for Swine, University of Veterinary Medicine Vienna, Austria

#### MIS-PP-12

DIFFERENT HEALTH STATUSES IN ALTERNATIVE PIG FARMS: AN ONLINE SURVEY OF 102 FARMERS C. Fablet<sup>1</sup>, E. Dubarry<sup>1</sup>, F. Pol<sup>1</sup>, <u>N. Rose<sup>1</sup></u> <sup>1</sup>Anses-Ploufragan/Plouzané/Niort Laboratory, BP 53, 22440 Ploufragan, France

#### MIS-PP-13

HAEMATOLOGICAL REFERENCE INTERVALS OF SOWS AT END GESTATION IN TEN FRENCH HERDS, THE IMPACT OF PARITY ON HAEMATOLOGICAL PARAMETERS AND THE CONSEQUENCES ON REPRODUCTIVE PERFORMANCE

<u>B. Gwenaël</u><sup>1</sup>, T. Charlotte<sup>2</sup>, V. Normand<sup>3</sup>, V. Bachy<sup>4</sup>, R. Daphné<sup>5</sup>, M. Brissonnier<sup>3</sup>, P. Berton<sup>3</sup>, F. Bouchet<sup>3</sup>, L. Arnaud<sup>6</sup>

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MIS-PP-14

PHARMACOKINETIC PROFILES OF TOLTRAZURIL AND ITS MAIN METABOLITE FOLLOWING SINGLE ORAL OR INTRAMUSCULAR ADMINISTRATION TO SUCKLING PIGLETS

<u>A. Geneteau<sup>1</sup>, N. Varinot<sup>1</sup>, R. Magnier<sup>1</sup>, M. Peyrou<sup>1</sup>, H. Karembe<sup>2</sup>, D. Sperling<sup>2</sup> <sup>1</sup>Ceva Santé Animale SA, 10 Avenue de la ballastière, CS 30126 – 33501 Libourne Cedex, France <sup>2</sup>Ceva Santé Animale, 10 Avenue de la Ballastière, 33500 Libourne - France</u>

#### MIS-PP-15

INCIDENCE OF EAR-WOUNDS THE FIRST 14 DAYS AFTER INSERTION INTO TWO DANISH NURSERY UNITS <u>E.ø. Eriksen<sup>3</sup></u>, M.V. Agerlin<sup>1</sup>, A.E. Christensen<sup>2</sup>, K.S. Pedersen<sup>3</sup>

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## MIS-PP-17

MICROGRANULATED PREMIXES DEMONSTRATE BETTER HOMOGENEITY IN THE FINAL FEED <u>L. Claerhout</u><sup>1</sup>, W. Depondt<sup>1</sup>, U. Klein<sup>1</sup> <sup>1</sup>Huvepharma NV, Belgium

MIS-PP-18

OCCURENCE OF CYSTOISOSPORA SUIS ON PIG FARMS IN BRAZIL

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#### MIS-PP-19

USE OF A SEROLOGICAL TEST BASED ON ASCARIS SUUM LARVA L3 ANTIGENS FOR DIAGNOSIS REGARDING THE AGE OF THE ANIMALS AND THE STATUS OF THE FARM

T. Gin<sup>1</sup>, E. Cantaloube<sup>1</sup>, G. Friocourt<sup>1</sup>, F. Launay<sup>1</sup>, F. Larcher<sup>1</sup>, M. Couteau<sup>1</sup>, J.L. Pinsard<sup>2</sup>

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<sup>2</sup>BioChêneVert, Rue Blaise Pascal, 35 220 Chateaubourg

#### MIS-PP-20

COMPARISON OF COLOSTRUM QUALITIES OF GERMAN LANDRACE AND GERMAN SADDLEBACK SOWS

<u>A. Vernunft<sup>1</sup></u>, L. Diesing<sup>2</sup>, C.C. Metges<sup>3</sup>, C. Gladbach<sup>4</sup>, M. Oster<sup>1</sup>, K. Wimmers<sup>1</sup>

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#### MIS-PP-21

DERMATOPHYTOSIS CAUSED BY TRICHOPHYTON MENTAGROPHYTES AMONG EXTENSIVELY REARED PIGS <u>K. Ryytty Sylvén<sup>1</sup></u>, L. Eliasson–Selling<sup>1</sup>

<sup>1</sup>Farm and Animal Health, Sweden

#### MIS-PP-22

ESTABLISHING OF REFERENCE VALUES FOR PORCINE NEUTROPHIL TO LYMPHOCYTE RATIO REGARDING DIFFERENT AGE GROUPS

D. Hoeltig<sup>2</sup>, E. Nerbas<sup>1</sup>, M. Wendt<sup>1</sup>

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#### MIS-PP-23

COMPARATIVE FIELD TRIALS ON THE INCIDENCE OF ANEMIA AND COCCIDIOSIS USING A COMBINATION OF TOLTRAZURIL AND GLEPTOFERRON IN BRAZILIAN FARMS

J. Calveyra<sup>1</sup>, C. Postal<sup>1</sup>, C. Sartori<sup>1</sup>, N. Savaris<sup>1</sup>, T. Grasel<sup>1</sup>, F. Betiolo<sup>1</sup>, H. Fries<sup>1</sup>, V. Aguiar<sup>1</sup>, M. Souza<sup>1</sup>, F. Neimaier<sup>1</sup>, <u>D.</u> Sperling<sup>2</sup>

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## MIS-PP-24

ACUTE SEVERE SKIN LESIONS AND TRANSIENT MORTALITY IN GROWING PIGS OF UNCONFIRMED AETIOLOGY <u>M. Richey</u><sup>1</sup>, S. Bell<sup>1</sup>, J. Payne<sup>1</sup>, S. Williamson<sup>1</sup> <sup>1</sup>Animal and Plant Health Agency, England, UK

#### MIS-PP-25

COMPARISON OF PLASMA PHARMACOKINETICS OF TOLTRAZURIL AND ITS ACTIVE METABOLITE ADMINISTERED IN 3-DAY OLD SUCKLING PIGLETS IN ORAL, INTRAMUSCULAR AND NEEDLE-FREE INTRAMUSCULAR APPLICATIONS <u>F. Vangroenweghe<sup>1</sup></u>, R. Krebber<sup>2</sup>, K. Fraatz<sup>3</sup>

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#### MIS-PP-26

LONGITUDINAL STUDY ON THE DEVELOPMENT OF OSTEOCHONDROSIS USING COMPUTED TOMOGRAPHY, PATHOLOGY AND SERUM MARKERS

P. Sutter<sup>1</sup>, T. Echtermann<sup>1</sup>, J. Sanchez-Andrade<sup>2</sup>, H. Richter<sup>2</sup>, G. Rosato<sup>3</sup>, F. Seehusen<sup>3</sup>, X. Sidler<sup>1</sup>, <u>D. Kümmerlen<sup>1</sup></u> <sup>1</sup>Division of Swine Medicine, Department of Farm Animals, Vetsuisse Faculty, University of Zurich, Zurich, Switzerland

<sup>2</sup>Diagnostik Imaging and Research Unit, Vetsuisse Faculty, University of Zurich, Zurich, Switzerland <sup>3</sup>Institute for Veterinary Pathology, Vetsuisse Faculty, University of Zurich, Zurich, Switzerland

# MIS-PP-27 OCCURENCE OF IRON DEFICIENCY ANEMIA ON PIG FARMS IN BRAZIL

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# MIS-PP-28

PREVALENCE STUDY OF IRON DEFICIENCY ANEMIA IN MATERNITY PIGLETS IN LATIN AMERICAN COUNTRIES J. Calveyra<sup>1</sup>, F. Rolandi<sup>1</sup>, F. Chama<sup>1</sup>, M. Deza<sup>1</sup>, M. Molina<sup>1</sup>, <u>D. Sperling</u><sup>1</sup> <sup>1</sup>CEVA ANIMAL HEALTH

#### MIS-PP-29

THE WAY TO MORE PRUDENT USE OF ANTIMICROBIALS IN CURRENT UNFAVOURABLE ECONOMICAL SITUATION.

<u>C. Bonckaert</u><sup>2</sup>, F. Baudoin<sup>1</sup>, E. Wauters<sup>1</sup>, S. Ribbens<sup>2</sup> <sup>1</sup>Flanders Research Institute for Agriculture, Fisheries and Food, Burg. Van Gansberghelaan 115 bus 2, 9820 Merelbeke, Belgium

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#### MIS-PP-30

EVALUATION OF AN INJECTABLE GLEPTOFERRON AND TOLTRAZURIL COMBINATION IN THE CONTROL OF ANEMIA AND PIGLET PERFORMANCE

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#### MIS-PP-31

FIELD EVALUATION OF THE EFFECTIVENESS OF AN INJECTABLE TOLTRAZURIL – GLEPTOFERRON IN GROWTH PERFORMANCE BY PREVENTING COCCIDIOSIS AND ANEMIA IN NEONATAL PIGLETS

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#### MIS-PP-32

ASSOCIATED FACTORS TO THE OCCURRENCE OF CYSTOISOSPORA SUIS IN BRAZILIAN PIG FARMS E. De Freitas Costa<sup>1</sup>, J. Calveyra<sup>2</sup>, <u>D. Sperling</u><sup>3</sup> <sup>1</sup>Wageningen Bioveterinary Research, Lelystad, the Netherlands <sup>2</sup>Ceva Animal Health, Brazil <sup>3</sup>Ceva Animal Health, France

MIS-PP-33

COMPARISON OF LUNG EP-LIKE LESIONS IN SLAUGHTERED PIGS, VACCINATED WITH DIFFERENT COMMERCIAL MYCOPLASMA HYOPNEUMONIAE VACCINES UNDER FIELD CONDITIONS. <u>M.T. Lasierra</u><sup>1</sup>, P. Del Carmen<sup>1</sup>, M. Carmona<sup>1</sup> <sup>1</sup>Ceva Salud Animal, Barcelona, Spain

# REPRODUCTION

#### REP-PP-01

FACILITATING VIRUS DIAGNOSTICS OF ABORTION MATERIAL IN PIGS – PLUCK-POOLS AS A POSSIBLE APPROACH? <u>H. Kreutzmann</u><sup>1</sup>, C. Unterweger<sup>1</sup>, L. Schwarz<sup>1</sup>, A. Auer<sup>2</sup>, T. Rümenapf<sup>2</sup>, A. Ladinig<sup>1</sup> <sup>1</sup>University Clinic for Swine, University of Veterinary Medicine Vienna, Austria <sup>2</sup>Institute of Virology, University of Veterinary Medicine Vienna, Austria

#### REP-PP-02

#### ACUTE-PHASE PROTEINS: A POTENTIAL PARAMETER FOR DETERMINING SOWS HEALTH AROUND PARTURITION?

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#### REP-PP-03

A NOVEL BOAR PHEROMONE IMPACTS WEANED SOW BEHAVIOR AND REPRODUCTION A. Vela<sup>1</sup>, L. Lafoz Del Rio<sup>1</sup>, D. Reyero<sup>2</sup>, O. Merdy<sup>3</sup> <sup>1</sup>Thinkinpig, Zaragoza, Spain <sup>2</sup>Vetoquinol Especialidades Veterinarias S.A. Spain

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#### REP-PP-04

EFFECT OF HEALTH, HOUSING, ENVIRONMENTAL AND MATING CONDITIONS ON THE SEXUAL BEHAVIOUR OF NATURALLY MATING BOARS IN SWITZERLAND

C. Hodel<sup>1</sup>, H. Nathues<sup>1</sup>, <u>A. Grahofer<sup>1</sup></u> <sup>1</sup>Clinic for Swine, Vetsuisse Faculty, University of Bern, Bern, Switzerland

#### REP-PP-05

HEPARENOL SUPPLEMENTATION TO PREPARTUM SOWS DECREASES THE PERCENTAGE OF STILLBORN PIGLETS <u>B. Engelen</u><sup>2</sup>, P. Van Rengen<sup>1</sup>, T. Wijnands<sup>1</sup>, B. Meijer<sup>2</sup> <sup>1</sup>Lintjeshof, Nederweert, The Netherlands <sup>2</sup>Dopharma Research, Raamsdonksveer, The Netherlands

#### REP-PP-07

BENEFITS OF OVULATION SYNCHRONIZATION WITH TRIPTORELIN UNDER EUROPEAN COMMERCIAL CONDITIONS O. Merdy<sup>1</sup>, E. Pagot<sup>2</sup>, D. Reyero<sup>3</sup>, J. Coatrieux<sup>1</sup> <sup>1</sup>Vetoquinol S.A., Lure, France

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#### REP-PP-08

CONTINUOUS SUBJECTIVE SONOGRAPHIC GRAYSCALE ANALYSIS OF THE UTERINE INVOLUTION OF SOWS IN THE POSTPARTUM PERIOD

<u>A. Grahofer</u><sup>1</sup>, L. Häberli<sup>1</sup>, H. Nathues<sup>1</sup>, J. Kauffold<sup>2</sup> <sup>1</sup>Clinic for Swine, Vetsuisse Faculty, University of Bern, Bern, Switzerland <sup>2</sup>Clinic for Ruminants and Swine, Faculty of Veterinary Medicine, University of Leipzig, Leipzig, Germany

#### REP-PP-09

NON-INVASIVE BIOMARKERS TO DETECT PROBLEM SOWS: A CASE STUDY <u>M. De Vos<sup>1</sup></u>, C. Van Hoof<sup>2</sup>, Q. Duan<sup>1</sup>, S. Tanghe<sup>1</sup> <sup>1</sup>Nutrition Sciences NV <sup>2</sup>HAS Hogeschool

#### REP-PP-10

SUCCESSFUL USE OF ALTRENOGEST TO SECURE BATCH MANAGEMENT AND MAINTAIN REPRODUCTION PERFORMANCES DURING EPISODE OF MAJOR RENOVATION

<u>S. Boulot</u><sup>1</sup>, C. Puech<sup>2</sup>, I. Correge<sup>1</sup>, G. Herve<sup>1</sup> <sup>1</sup>IFIP-Institut du porc, Domaine de la Motte au Vicomte, BP 35104, 35651 Le Rheu <sup>2</sup>Hyovet, Bd Jacques Cartier 35160 Montfort sur Meu, France

#### REP-PP-11

COMBINING SINGLE FIXED-TIME ARTIFICIAL INSEMINATION TECHNOLOGY WITH FERTILITY ASSESSMENT - A CANADIAN FIELD EXPERIENCE

P. Renaud<sup>1</sup>, N. Machell<sup>2</sup>, M. Johnston<sup>3</sup>, O. Merdy<sup>1</sup>

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#### REP-PP-12

## EFFECT OF THE MATING BEHAVIOUR OF BOARS ON THE REPRODUCTIVE PERFORMANCE OF SOWS IN SWISS PIG FARMS

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#### REP-PP-13

AMETA-ANALYSIS ON THE EFFECT OF FARROWING INDUCTION WITH PROSTAGLANDINS INLITTER CHARACTERISTICS OF SWINE.

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#### REP-PP-14

OVULATION SYNCHRONIZATION AND FARROWING INDUCTION SIMPLIFIES WORK WHILE MAINTAINING PERFORMANCE UNDER CANADIAN COMMERCIAL CONDITIONS

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#### REP-PP-15

ASSOCIATION BETWEEN BLOOD HAEMOGLOBIN CONCENTRATION IN SOWS AND THEIR PIGLETS AND THEIR PERFORMANCE CHARACTERISTICS AT FARROWING IN A FREE FARROWING SYSTEM

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REP-PP-16

USE OF DEXTROSE TO IMPROVE THE WEAN-TO-FIRST SERVICE INTERVAL IN A WARM CLIME AREA: IMPORTANCE OF THE DURATION OF TREATMENT.

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#### REP-PP-18

ALTRENOGEST MAY BE USED DURING EARLY PREGNANCY TO INCREASE LITTER SIZE

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#### REP-PP-19

#### CYSTIC ENDOMETRIAL HYPERPLASIA IN MINIPIGS - AN UNDERESTIMATED PROBLEM?

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#### REP-PP-20

#### IMPACTS OF BACKFAT THICKNESS ON FARROWING OUTCOMES

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#### **RESIDENT SESSION**

#### RES-PP-01

IMPLEMENTATION OF "BEST PRACTISE" IN THE FATTENING UNIT - AIR QUALITY, WATER SUPPLY AND STRAW PROVISION IN SWEDISH FINISHER FARMS

R. Westin<sup>1</sup>, A. Reneby<sup>2</sup>, H. Arosenius<sup>3</sup>, C. Ehlorsson<sup>4</sup>

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#### VETERINARY PUBLIC HEALTH

VPH-PP-01

ATTITUDES TO THE ANTIMICROBIAL USE ON SWINE FARMS IN HUNGARY; A SURVEY L. Becsei<sup>1</sup>, T. Faragó<sup>2</sup>, I. Nemes<sup>3</sup>, J. Földi<sup>4</sup>

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#### \_\_\_\_\_

VPH-PP-02

REAL TIME SOUND BASED MONITORING SUPPORTS TIMELY AND INTELLIGENT DATA-BASED INTERVENTIONS BASED ON THE ACTUAL RESPIRATORY HEALTH STATUS (REHS) IN NURSERY FACILITIES

P.H. Rathkjen<sup>1</sup>, A. Priebe<sup>2</sup>, L. Rasmussen<sup>2</sup>, L.M. Jensen<sup>2</sup>, M.V. Agerlin<sup>3</sup>, C. Alonso<sup>4</sup>

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#### **VIRAL DISEASES**

#### VVD-PP-01

## MONITORING PRRSV-1 STABILITY IN SUCKLING PIGLETS BY RT-PCR: COMPARISON OF THE RATE OF DETECTION IN SERUM, FAMILY ORAL FLUID, UDDER WIPES AND ENVIRONMENTAL SAMPLES

<u>A. Lebret</u><sup>3</sup>, S. Chouët<sup>1</sup>, D. Duivon<sup>2</sup>, F. Preault<sup>1</sup>, J. Jeusselin<sup>3</sup>, C. Chevance<sup>3</sup>, V. Normand<sup>3</sup>, F. Bouchet<sup>3</sup>, M. Brissonnier<sup>3</sup>, G. Boulbria<sup>3</sup>, P. Berton<sup>3</sup>, C. Teixeira-Costa<sup>4</sup>

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#### VVD-PP-03

EVALUATION OF PRRS AND ASF VIRUS DISSEMINATION BETWEEN PIGS WHEN USING CONVENTIONAL NEEDLE AND NEEDLE-FREE DEVICE

D. Nilubol<sup>1</sup>, J. Miranda<sup>2</sup>, S. Romero<sup>2</sup>, S. Traiyarach<sup>2</sup>, A. Tantituvanont<sup>3</sup>, D. Palabrica<sup>4</sup>

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#### VVD-PP-04

#### INFLUENZA A IN SLOVENIAN PIG HERDS

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#### VVD-PP-05

#### ROTAVIRUS INFECTIONS PRECEDE E. COLI POSTWEANING DIARRHEA IN PIGS

<u>M. Schyns<sup>1</sup></u>, R. Van Den Braak<sup>2</sup>, A. Folgueiras-González<sup>2</sup>, M. Vrijenhoek<sup>3</sup>, W. Kuller<sup>4</sup>, O. Schreurs<sup>5</sup>, M. Deijs<sup>6</sup>, L. Van Der Hoek<sup>6</sup>, A. De Groof<sup>2</sup>

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<sup>5</sup>DAC Advee, Ysselsteyn, Netherlands

<sup>6</sup> Laboratory of Experimental Virology, Department of Medical Microbiology, Amsterdam University Medical Center, Amsterdam, The Netherlands

#### VVD-PP-07

COMPARISON OF INDIVIDUAL, GROUP AND ENVIRONMENTAL SAMPLING STRATEGIES FOR DETECTION OF INFLUENZA A VIRUS

<u>S. Gumbert<sup>1</sup></u>, S. Zwickl<sup>1</sup>, T. Harder<sup>2</sup>, A. Graaf<sup>2</sup>, C. Hennig<sup>2</sup>, K. Lillie-Jaschniski<sup>3</sup>, M. Koechling<sup>4</sup>, M. Ritzmann<sup>1</sup>, J. Stadler<sup>1</sup>

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#### VVD-PP-08

DIAGNOSTIC SERVICE: DETECTION OF DIFFERENT SUBTYPES OF INFLUENZA A VIRUS ON BELGIAN FARMS SUFFERING ACUTE RESPIRATORY DISEASE IN 2021.

<u>E. De Jonghe<sup>1</sup></u>, E. Libbrecht<sup>1</sup>, P. De Backer<sup>1</sup> <sup>1</sup>Ceva Santé Animale, Brussels, Belgium

EFFECT OF SOW VACCINATION AGAINST INFLUENZA A VIRUS ON PIGLET MORTALITY AT NURSERY PERIOD.

S. Sánchez<sup>1</sup>, J. Gayán<sup>1</sup>, D. Espigares<sup>2</sup>, <u>L. Garza<sup>2</sup></u> <sup>1</sup>Ars Alendi S.A., Spain <sup>2</sup>Ceva Salud Animal, Barcelona, Spain

#### VVD-PP-10

PORCINE RESPIROVIRUS 1 (PRV1) IS HIGHLY PREVALENT IN POLISH PIG FARMS

A. Woźniak<sup>3</sup>, P. Cybulski<sup>1</sup>, L. Dénes<sup>2</sup>, G. Balka<sup>2</sup>, T. Stadejek<sup>3</sup>

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#### VVD-PP-11

#### RETROSPECTIVE STUDY OF PCV-3 ASSOCIATED DISEASE AND ITS ASSOCIATION WITH SYSTEMIC PERIARTERITIS A. Cobos<sup>1</sup>, M. Sibila<sup>1</sup>, E. Huerta<sup>1</sup>, M. Perez<sup>1</sup>, J. Alomar<sup>3</sup>, <u>J. Segales<sup>2</sup></u>

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#### VVD-PP-12

#### SWINE INFLUENZA A VIRUS DETECTION IN SOW HERDS, A NEW APPROACH

<u>K. Lillie-Jaschniski</u><sup>1</sup>, H. Cotta<sup>1</sup>, J. Agnes<sup>2</sup>, E. Pileri<sup>3</sup>, E. Velazquez<sup>4</sup>, M. Lisgara<sup>5</sup>, J. Stadler<sup>6</sup> <sup>1</sup>Ceva Santé Animale, Libourne, France

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#### VVD-PP-13

WHOLE GENOME SCREENING FOR RESILIENCE AGAINST PRRSV OUTBREAKS IN BREEDING SOWS <u>M. Laplana</u><sup>1</sup>, R. Ros-Freixedes<sup>1</sup>, J. Estany<sup>1</sup>, L. Fraile<sup>1</sup>, R. Pena<sup>1</sup> <sup>1</sup>University of Lleida, Lleida, Spain

#### VVD-PP-14

WITHIN-HERD VARIATION OF GENETIC SIMILARITY OF ORF5 PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME VIRUS (PRRSV): A STUDY IN 115 BREEDING HERDS

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VVD-PP-15

CASES OF MYOCARDITIS ASSOCIATED WITH PORCINE CIRCOVIRUS-3 DETECTED BY ENHANCED SURVEILLANCE <u>S. Williamson</u><sup>1</sup>, C. Bidewell<sup>2</sup>, T. Floyd<sup>2</sup>, S. Grierson<sup>1</sup> <sup>1</sup>Animal and Plant Health Agency (APHA)

<sup>2</sup> Animal and Plant Health Agency, England, UK



NEUROINVASIVE PORCINE ASTROVIRUS INFECTION ASSOCIATED WITH RECURRENT OUTBREAKS OF ENCEPHALITIS, POSTERIOR WEAKNESS AND PARALYSIS AMONG WEANED PIGLETS

<u>á. Boros<sup>1</sup></u>, Z. László<sup>2</sup>, M. Albert<sup>3</sup>, H. Bíró<sup>4</sup>, P. Pankovics<sup>1</sup>, T.G. Phan<sup>5</sup>, E. Delwart<sup>5</sup>, G. Reuter<sup>1</sup>

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#### VVD-PP-17

POSITIVE EFFECTS OF ALGAL BETA-1,3-GLUCAN ON VIRAL REPLICATION OF PRRSV AND ASFV IN PULMONARY ALVEOLAR MACROPHAGES (PAM

A. De Leon<sup>1</sup>, <u>S. Kirwan</u><sup>2</sup>, R. Neto<sup>2</sup>, V. Van Hamme<sup>2</sup>, J. Tan<sup>1</sup>, T. Nguyen<sup>1</sup>, H. Thanh<sup>3</sup>, D. Vu Hoang<sup>3</sup> <sup>1</sup>Kemin Animal Nutrition and Health, Asia Pacific <sup>2</sup>Kemin Europa NV <sup>3</sup>National Institute of Veterinary Research, Vietnam

#### VVD-PP-18

#### PRRS-STATUS ON DUTCH FARMS BETWEEN 2017-EARLY 2021

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#### **VVD-PP-19**

PRRSV-1-INDUCED LUNG LESION IS ASSOCIATED WITH AN IMBALANCE BETWEEN COSTIMULATORY AND COINHIBITORY IMMUNE CHECKPOINTS

<u>I. Ruedas-Torres</u><sup>1</sup>, J.M. Sánchez-Carvajal<sup>1</sup>, F. Larenas-Muñoz<sup>1</sup>, F. Pallarés-Martínez<sup>1</sup>, L. Carrasco<sup>1</sup>, I.M. Rodríguez-Gómez<sup>1</sup>, J. Gómez-Laguna<sup>1</sup>

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#### VVD-PP-20

QUANTITATIVE ANALYSIS OF INFLAMMATORY UTERINE LESIONS OF PREGNANT GILTS WITH DIGITAL IMAGE ANALYSIS SOFTWARE FOLLOWING EXPERIMENTAL PRRSV-INFECTION

D.G. Horváth<sup>1</sup>, Z. Abonyi-Tóth<sup>2</sup>, T. Rümenapf<sup>3</sup>, H. Kreutzmann<sup>4</sup>, C. Knecht<sup>4</sup>, A. Ladinig<sup>4</sup>, G. Balka<sup>1</sup>

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#### VVD-PP-21

SWINE INFLUENZA VIRUS (SWIAV) DETECTED IN SAMPLES FROM PIGS IN THE NETHERLANDS IN Q1 – Q3 OF 2021. <u>P. Van Der Wolf</u><sup>1</sup>, M. Olde Monnikhof<sup>1</sup>, S. Van Colen<sup>1</sup> <sup>1</sup>Ceva Santé Animale, Naaldwijk, the Netherlands

#### VVD-PP-22

USE OF A NEW IMMUNOINFORMATICS TOOL (EPICC) TO ASSESS THE RELATIONSHIP BETWEEN THE EPITOPES OF T LYMPHOCYTES, OF VACCINES AND PCV2 STRAINS CIRCULATING IN FRANCE <u>F. Colin<sup>1</sup></u>, J. Angulo<sup>2</sup>

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#### VVD-PP-23

VP7 AND VP4 GENOTYPING OF ROTAVIRUS A IN DANISH SWINE HERDS

K. Pedersen<sup>1</sup>, N.B.G. Goecke<sup>1</sup>, P. Ryt-Hansen<sup>1</sup>, N. Rosager Weber<sup>2</sup>, L.E. Larsen<sup>1</sup>

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## EXPLORATORY STUDY OF THE FREQUENCY OF DETECTION AND TISSUE DISTRIBUTION OF PORCINE CIRCOVIRUS 3 (PCV-3) IN PIG FETUSES AT DIFFERENT GESTATIONAL AGES

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#### VVD-PP-25

#### IMPACT OF INFLUENZA A HINIPDM VACCINATION ON REPRODUCTIVE PERFORMANCES IN 3 FRENCH SOW HERDS

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#### VVD-PP-26

LITTER BASED COMPARISON OF UDDER WIPES AND NASAL SWABS FROM SUCKLING PIGLETS FOR THE DETECTION OF INFLUENZA VIRUS.

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#### VVD-PP-27

OPTIMISATION OF INFLUENZA A VIRUS DETECTION BY PCR IN ORAL FLUIDS SAMPLES BY USING REAL TIME RESPIRATORY HEALTH STATUS (REHS) MONITORING TO DETERMINE TIME OF SAMPLING

<u>P.H. Rathkjen<sup>1</sup>, M. Jensen<sup>1</sup>, A. Kragh<sup>1</sup>, C. Alonso<sup>2</sup></u> <sup>1</sup>Boehringer Ingelheim Animal Health Denmark <sup>2</sup>Boehringer Ingelheim Vetmedica GmbH

#### VVD-PP-28

PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME (PRRS) EPIDEMIOLOGY IN AN ITALIAN INTEGRATED PIG COMPANY: MULTIPLE CHALLENGES REQUIRING MULTIPLE ACTIONS?

G. Franzo<sup>1</sup>, G. Barbierato<sup>1</sup>, P. Pesente<sup>2</sup>, M. Legnardi<sup>1</sup>, C.M. Tucciarone<sup>1</sup>, <u>G. Sandri<sup>3</sup></u>, M. Drigo<sup>1</sup> <sup>1</sup>Dept. of Animal Medicine, Production and Health, University of Padova, Legnaro, Italy. <sup>2</sup>Laboratorio Tre Valli/Gruppo Veronesi <sup>3</sup>Soc.Agr. La Pellegrina spa/ Gruppo veronesi

VVD-PP-29

PREVALENCE AND DISTRIBUTION OF PORCINE ROTAVIRUS (RV) GROUP AND TYPE IN SUCKLING PIGLETS IN CANADA BETWEEN JULY 2019 AND JULY 2021 C. Malgarin<sup>1</sup>, C. Sebo<sup>2</sup>, F. De Grau<sup>1</sup>, S. Drapeau<sup>1</sup>

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<sup>2</sup> Merck Animal Health, United States of America

#### VVD-PP-30

PREVALENCE OF INFLUENZA A VIRUS-SWINE SUBTYPES ON HUNGARIAN SWINE FARMS - A FIELD STUDY P. Mate<sup>1</sup>, I. Makkai<sup>1</sup>, L. Buza<sup>1</sup>, H. Swam<sup>2</sup>, L. Ozsvari<sup>3</sup> <sup>1</sup>MSD Animal Health Central-Europe region, Swine Business Unit (Hungary) <sup>2</sup>Center for Diagnostic Solutions, MSD AH Boxmeer, The Netherlands <sup>3</sup>University of Veterinary Medicine Budapest, Hungary

#### VVD-PP-31 THE PREVALENCE OF ATYPICAL PORCINE PESTIVIRUS IN HUNGARIAN PIG FARMS L. Dénes', G. Balka'

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#### VVD-PP-32

## ASSESSMENT OF THE VERTICAL TRANSMISSION OF PRRSVI IN UNSTABLE FARMS: EFFECT OF PARITY AND NEUTRALIZING ANTIBODY TITRES

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#### VVD-PP-33

REPRODUCTIVE PERFORMANCE IN A PIG FARM WITH ENDEMIC AFRICAN SWINE FEVER VIRUS INFECTION IN VIETNAM

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#### VVD-PP-34

#### CIRCULATION IN FRANCE OF PPV-1 STRAINS GENETICALLY CLOSED TO PPV 27A STRAINS

<u>M. Abed</u><sup>1</sup>, A. Jardin<sup>2</sup>, I. Kiss<sup>3</sup>, Z. Homonnay<sup>3</sup>, M. Baudouard<sup>1</sup>, F.X. Briand<sup>4</sup>, M. Le Guillermic<sup>1</sup>, P. Mortensen<sup>5</sup> <sup>1</sup>Labocea Ploufragan - Service Immunologie Virologie PCR. 7 rue du Sabot, Ploufragan, 22440. France <sup>2</sup>Ceva Santé Animale, 33 500 Libourne, France

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#### VVD-PP-35

DIVA RT-PCR FOR DETECTION AND DISCRIMINATION OF WILD TYPE AND MODIFIED LIVE VACCINE STRAIN OF PRRSV

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#### VVD-PP-36

IMPLEMENTATION AND MONITORING OF A PRRS ERADICATION PROGRAMME IN A FRENCH BREEDER-FINISHER FARM COMBINING MASS VACCINATION FROM 4 DAYS OF AGE AND COMPLIANCE WITH BIOSECURITY MEASURES <u>M. Dethinne<sup>1</sup></u>, F. Colin<sup>2</sup>

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#### VVD-PP-37

PREVALENCE OF PCV2 SUBTYPES A, B AND D IN FATTENERS PIGS IN BENELUX FARMS BETWEEN OCTOBER 2020 AND FEBRUARY 2021

<u>A. Vanderzeypen<sup>2</sup></u>, T. Meyns<sup>2</sup>, A. Verhaegen<sup>1</sup>, J. Angulo<sup>3</sup> <sup>1</sup>ZOETIS BV, Rivium Westlaan 74, Capelle ad Ijssel, The Netherlands <sup>2</sup>ZOETIS Benelux, Mercuriusstraat 20, 1930 Zaventem, Belgium <sup>3</sup>Zoetis Inc, Parsippany, NJ, USA

REPRODUCTIVE PERFORMANCE OF A PANDEMIC INFLUENZA A INFECTED BELGIAN FARM BEFORE AND AFTER IMPLEMENTATION OF A VACCINE AGAINST THE INFLUENZA A (H1N1)PDM 09 VIRUS. <u>E. De Jonghe</u>', P. De-Backer', E. Libbrecht'

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#### VVD-PP-39

#### EMERGENCE OF PCV2 INFECTIONS WITH TROPISM TO THE GUT AND ITS ASSOCIATED TISSUES

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#### VVD-PP-40

#### EXPECT THE UNEXPECTED: FIRST INCIDENTAL DETECTION OF PCV-2E GENOTYPE IN EUROPE

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VVD-PP-41

#### HIGH PREVALENCE OF PCV3 IN HUNGARIAN PIG HERDS

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#### VVD-PP-42

INTRODUCTION AND LARGE-SCALE EVALUATION OF A NOVEL ONE-STEP TRIPLEX RT-QPCR ASSAY FOR SIMULTANEOUS DETECTION OF PATHOGENIC PORCINE SAPELOVIRUSES, TESCHOVIRUSES (PICORNAVIRIDAE) AND TYPE 3 PORCINE ASTROVIRUSES (ASTROVIRIDAE) IN SWINE

<u>Z. László</u><sup>1</sup>, P. Pankovics<sup>1</sup>, G. Reuter<sup>1</sup>, A. Cságola<sup>2</sup>, K. Bodó<sup>3</sup>, G. Gáspár<sup>1</sup>, M. Albert<sup>2</sup>, H. Bíró<sup>4</sup>, á. Boros<sup>1</sup> <sup>1</sup>Department of Medical Microbiology and Immunology, Medical School, University of Pécs, Pécs, Hungary

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#### VVD-PP-43

REPRODUCTIVE CONSEQUENCES OF HIAVN2 (IC.2.4) INFECTION AND IMPACT OF TRIVALENT VACCINE IMPLEMENTATION IN ONE FRENCH SOW HERD

C. Colimard<sup>1</sup>, <u>A. Jardin<sup>2</sup></u>, G. Anthony<sup>4</sup>, S. Brilland<sup>3</sup>, K. Lillie-Jaschniski<sup>5</sup> <sup>1</sup>BREIZHPIG SCOP SAS, rue Edgar Brandt, 56500 Locminé, France

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#### VVD-PP-44

USE OF AN ALTERNATIVE TRANSPORT MEDIA FOR PRRSV MONITORING IN A GILT DEVELOPMENT UNIT

<u>J. Miranda</u><sup>1</sup>, L. De Lucas<sup>1</sup>, S. Sopena<sup>1</sup>, L. Valls<sup>1</sup>, J. Maldonado<sup>1</sup>, S. Rosina<sup>2</sup>, U. Rolla<sup>3</sup>, C. Lasagna<sup>3</sup> <sup>1</sup>HIPRA HQ, Amer (Girona), Spain

<sup>2</sup>HIPRA Italy

<sup>3</sup>Martini Gruppo - Italia

VVD-PP-45

SPATIO-TEMPORAL DYNAMICS OF PORCINE CIRCOVIRUS TYPE 2 (PCV2) OF VARIOUS GENOTYPES CIRCULATING IN JAPAN

<u>I. Sasaki</u><sup>2</sup>, F. Koike<sup>1</sup>, J. Mago<sup>2</sup>, D. Tsukamoto<sup>2</sup>, C.K. Mah<sup>3</sup> <sup>1</sup>SMC Co., Ltd.

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PORCINE CIRCOVIRUS 3 PREVALENCE IN HUNGARY

L. Molnár<sup>1</sup>, P. Mate<sup>2</sup>, I. Makkai<sup>2</sup>, L. Buza<sup>2</sup>, H. Swam<sup>3</sup>, L. Ozsvari<sup>1</sup> <sup>1</sup>University of Veterinary Medicine Budapest, Hungary

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#### VVD-PP-48

WHAT IS THE REAL INFLUENCE OF CLIMATIC AND ENVIRONMENTAL FACTORS IN THE OUTBREAKS OF AFRICAN SWINE FEVER?

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#### VVD-PP-49

COMPARISON OF PORCINE CIRCOVIRUS TYPE 2 (PCV2) DETECTION IN FATTENING PIGS DERIVED FROM DANISH AND POLISH SUPPLIERS

ł. Budzich<sup>1</sup>, I. Turulski<sup>1</sup>, A. Mikołajczyk<sup>1</sup>, <u>A. Woźniak</u><sup>2</sup>, T. Stadejek<sup>2</sup> <sup>1</sup>The Scientific Society of Veterinary Medicine Students, Warsaw University of Life Sciences - SGGW

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#### VVD-PP-50

FIELD TRIAL COMPARING DIFFERENT VACCINATION STRATEGIES IN PIGLETS COMBINING PROTOCOLS USING MLV AND INACTIVATED VACCINE ON CLINICAL PRESENTATION OF PRRSV DURING AN OUTBREAK WITH A HIGH VIRULENCE STRAIN

<u>A. Vela</u><sup>1</sup>, L. Lafoz Del Rio<sup>1</sup> <sup>1</sup>Thinkinpig, Zaragoza, Spain

#### VVD-PP-51

CYTOLOGICAL AND HAEMATOLOGICAL CHARACTERIZATION OF PROCESSING FLUIDS <u>N. Tonelli</u><sup>1</sup>, M. Tonni<sup>1</sup>, N. Formenti<sup>1</sup>, B. Passeri<sup>2</sup>, I. Archetti<sup>1</sup>, M.B. Boniotti<sup>1</sup>, G.L. Alborali<sup>1</sup> <sup>1</sup>IZSLER (Istituto Zooprofilattico Sperimentale della Lombardia e Dell'Emilia Romagna), Brescia ITALY <sup>2</sup>Department of Veterinary Science, University of Parma

#### VVD-PP-52

ELIMINATION OF PRRS VIRUS INFECTION USING AN INACTIVATED VACCINE IN COMBINATION WITH A ROLL-OVER METHOD IN A HUNGARIAN LARGE-SCALE PIG HERD

<u>A. Pertich</u><sup>1</sup>, Z. Barna<sup>1</sup>, O. Makai<sup>1</sup>, J. Farkas<sup>1</sup>, T. Molnar<sup>2</sup>, A. Balint<sup>3</sup>, I. Szabo<sup>2</sup>, M. Albert<sup>4</sup> <sup>1</sup>Piginveszt Ltd., Tótkomlós, Hungary <sup>2</sup>National PRRS Eradication Committe, Budapest (Hungary) <sup>3</sup>National Foodchain Safety Authority, Budapest (Hungary) <sup>4</sup>Ceva Phylaxia Ltd.

#### VVD-PP-53

EFFICACY OF PCV2 SOW AND PIGLET VACCINATION PROGRAM IN CONTROLLING EARLY PCV2 INFECTIONS <u>S. Oliver</u><sup>1</sup>, S. Cárceles<sup>1</sup>, L. Garza<sup>1</sup>, C. Casanovas<sup>1</sup>, D. Espigares<sup>1</sup> <sup>1</sup>Ceva Salud Animal, Barcelona, Spain

#### WELFARE AND NUTRITION

#### AWN-PP-01

ALGORITHM-BASED AUTOMATIZED DETECTION OF THE EFFECTS OF RYE-BASED DIETS ON BEHAVIOURAL PARAMETERS OF INTACT BOARS

V. Wilke<sup>1</sup>, J. Schmidt-Mosig<sup>2</sup>, J. Kamphues<sup>4</sup>, A. Von Felde<sup>3</sup>, C. Visscher<sup>5</sup>

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- <sup>2</sup> VetVise GmbH, Hanover
- <sup>3</sup> KWS Lochow GmbH

<sup>4</sup>University of Veterinary Medicine Hannover - Institute of Animal Nutrition

<sup>5</sup>University of Veterinary Medicine Hannover, Foundation, Institute for Animal Nutrition

## A WEANER DIET OPTIMIZED WITH FOCUS ON AVOIDING POST WEANING DIARRHOEA IN VERY SMALL PIGLETS AFTER WEANING.

<u>D. Carlson</u><sup>1</sup>, J. Callesen<sup>1</sup>, B. Knudsen<sup>1</sup>, J. Korneliussen<sup>1</sup>, J.F. Katholm<sup>1</sup>, N.O. Nielsen<sup>1</sup> <sup>1</sup>SvineRaadgivningen (Danish Pig Advisory Center)

#### AWN-PP-03

APPLICATION OF HEMICELL HT<sup>™</sup> – A ®-MANNANASE ENZYME – RETAINS PERFORMANCE AND IMPROVES HEALTH IN THE PRESENCE OF CHALLENGING PROTEIN SOURCES <u>F. Vangroenweghe<sup>1</sup></u> <sup>1</sup>BU Swine & Ruminants, Elanco Benelux, Elanco Animal Health

#### AWN-PP-04

EFFECTS OF A SYNBIOTIC DIETARY CONCEPT BIMULAC® WEANER TS ON FECAL CONSISTENCY AND GROWTH PERFORMANCE IN WEANED PIGLETS COMPARED TO PHARMACOLOGICAL DOSAGES OF ZINC OXIDE

<u>B. Keimer</u><sup>1</sup>, M. Hörstmann<sup>2</sup>, A. Schlagheck<sup>1</sup>, S. Asmussen<sup>3</sup> <sup>1</sup>R&D Department, Biochem Zusatzstoffe GmbH, Lohne, Germany <sup>2</sup>Product Managment, Biochem Zusatzstoffe GmbH, Lohne, Germany <sup>3</sup>Livestock Feed Tests IVS, Bylderup-Bov, Denmark

#### AWN-PP-05

ATTITUDES REGARDING PREVENTION AND TREATMENT OF SOW SHOULDER ULCERS IN SWEDEN

<u>F. Matti</u><sup>1</sup>, M. Lindberg<sup>2</sup>, A. Backhans<sup>3</sup>

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#### AWN-PP-06

DIET INTERVENTION CAN REDUCE TONSILLAR STREPTOCOCCUS SUIS SEROTYPE 9 ABUNDANCE IN PIGLETS.

<u>P. Van 'T Veld</u><sup>1</sup>, A. Van Enckevort<sup>1</sup>, X. Guan<sup>2</sup>, F. Molist<sup>2</sup> <sup>1</sup>Denkavit Nederland BV, 3781 PV Voorthuizen, The Netherlands <sup>2</sup>Schothorst Feed Research, Lelystad 8218 NA, The Netherlands.

#### AWN-PP-07

EARLY PREDICTION OF CARCASS COMPOSITION IN FATTENING PIG TYPES USING A SOY-FREE AND LOCALLY GROWN FEED RATION BY MEANS OF ULTRASOUND EXAMINATION

B. Reckels<sup>1</sup>, C. Schwennen<sup>1</sup>, A.A. El-Wahab<sup>2</sup>, R. Hoelscher<sup>3</sup>, C. Visscher<sup>1</sup>

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<sup>3</sup>Hoelscher & Leuschner GmbH & Co.

#### AWN-PP-08

EFFECT OF BACILLUS-BASED PROBIOTIC ON PERFORMANCE OF SOWS, REARING RESULTS AND GUT FUNCTIONAL STATUS IN PIGLETS AT WEANING

P. Konieczka<sup>1</sup>, K. Ferenc<sup>2</sup>, J.N. Jørgensen<sup>3</sup>, R. Zabielski<sup>4</sup>, J. Olszewski<sup>2</sup>, Z. Gajewski<sup>2</sup>, M. Mazur-Kuśnirek<sup>7</sup>, D. Szkopek<sup>5</sup>, N. Szyryńska<sup>6</sup>, <u>K. Lipiński<sup>7</sup></u>

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#### AWN-PP-09

EFFECT OF DIETARY ROSEMARY EXTRACT SUPPLEMENTATION ON GROWTH PERFORMANCE, CARCASS COMPOSITION AND CORTISOL IN FINISHER PIGS

<u>M. Lingbeek</u><sup>1</sup>, J. Doelman<sup>1</sup>, G. Boerboom<sup>1</sup> <sup>1</sup>Trouw Nutrition R&D. The Netherlands

#### EFFECT OF DIFFERENT ORAL IRON APPLICATION IN SUCKLING PIGLETS TO AN OPTIMAL HEMOGLOBIN CONTENT AT WEANING

M. Hörstmann<sup>1</sup>, A. Schlagheck<sup>2</sup>, T. Stigen Martinsen<sup>3</sup>, V. Bøhn Lund<sup>3</sup>

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#### AWN-PP-11

EFFECT OF SHORT-CHAIN FATTY ACIDS ON THE INTESTINAL BARRIER IN INTESTINAL PORCINE CELLS (IPEC-J2)

<u>M. Andrani</u><sup>1</sup>, R. Saleri<sup>1</sup>, V. Cavalli<sup>1</sup>, L. Ferrari<sup>1</sup>, E. De Angelis<sup>1</sup>, P. Borghetti<sup>1</sup>, P. Martelli<sup>2</sup>

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#### AWN-PP-12

#### PORCINE EAR NECROSIS IN PIGLETS: DEVELOPMENT OF LESIONS AND GERMS.

M. Malik<sup>1</sup>, S. Theuns<sup>2</sup>, S. Croubels<sup>3</sup>, K. Chiers<sup>3</sup>, I. Chantziaras<sup>4</sup>, D. Maes<sup>5</sup>

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#### AWN-PP-13

ASSESSMENT OF FIELD EFFICACY OF INJECTABLE GLEPTOFERRON + TOLTRAZURIL IN COMPARISON WITH INJECTABLE GLEPTOFERRON ON THE EXCRETION OF CYSTOISOSPORA SUIS OOZYSTS, FAECAL CONSISTENCE AND ZOOTECHNICAL PERFORMANCE

J. Aundrup<sup>1</sup>, M. Köchling<sup>2</sup>, V. Cvjetković<sup>2</sup>, D. šperling<sup>3</sup>

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AWN-PP-14

EFFECTS OF THE WEBBING BELT PROVISION ON SALIVARY CORTISOL CONCENTRATIONS, WOUNDS ON BODY, AND BEHAVIOUR OBSERVATIONS OF GROWING PIGS IMMEDIATELY AFTER TRANSPORTATION AND GROUPING J. Kim<sup>1</sup>, J. Lee<sup>1</sup>, J. Cho<sup>1</sup>, K. Kanq<sup>2</sup>, H. Cho<sup>2</sup>, J. Yun<sup>1</sup>

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#### AWN-PP-15

COLOSTRUM FOSTERING: UNDER PRACTICAL CONDITIONS, IS IT USEFUL TO ANALYZE COLOSTRUM WITH A BRIX REFRACTOMETER IN THE FOSTERING PROTOCOLS OF HYPERPROLIFERATIVE SWINE GENETICS? <u>G. Laszlo'</u>, A. Botond<sup>2</sup>, H. Rita<sup>2</sup>

#### <sup>1</sup>veterinarian

<sup>2</sup>University of Győr, Wittmann Antal Plant-, Animal- and Food Sciences Multidisciplinary Doctoral School

#### AWN-PP-16

REDUCTION OF DRINKING WATER TEMPERATURE DURING THE LACTATION PERIOD IN WARM ZONES: PROFITS IN A PRACTICAL EXPERIENCE.

P. Sánchez-Giménez<sup>1</sup>, H. González-Ramiro<sup>1</sup>, R. Fernández-Rodríguez<sup>1</sup>, A. Martínez-Moreno<sup>1</sup>, G. Ramis<sup>2</sup> <sup>1</sup>AGROPOR, Murcia, Spain

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EVALUATION OF THE EFFECT OF SURGICAL AND IMMUNOLOGICAL CASTRATION ON BOAR TAINT COMPOUNDS IN ORAL FLUID AND FAT TISSUE BY A LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY (LC-MS/MS) METHOD

<u>P. Cybulski</u><sup>1</sup>, B. Woźniak<sup>2</sup>, A. Jabłoński<sup>3</sup>, S. Witek<sup>2</sup>, I. Matraszek-żuchowska<sup>2</sup> <sup>1</sup>Goodvalley Agro S.A., Przechlewo, Poland

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#### AWN-PP-18

FIGHTING ENTEROPATHOGENIC E. COLI WITH ALGAL POLYSACCHARIDES <u>M. Garcia-Suarez</u><sup>1</sup>, M. Gallissot<sup>1</sup>, M. Berri<sup>2</sup>, P. Nyvall-Collen<sup>1</sup>, M. Porter<sup>2</sup>, D. Marzin<sup>1</sup> <sup>1</sup>Olmix Group, Brehan, France

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#### AWN-PP-19

MEASURING BEHAVIOR FOLLOWING VACCINATION USING AN AUTOMATED CAMERA AND DRINKING WATER INTAKE

<u>R. Jansen<sup>1</sup>,</u> M. Steenaert<sup>2</sup>, H. Prüst<sup>2</sup>, C. Alonso<sup>1</sup> <sup>1</sup>Boehringer Ingelheim Vetmedica GmbH <sup>2</sup>Boehringer Ingelheim Animal Health Netherlands bv

#### AWN-PP-20

#### FOOT LESIONS IN ITALIAN HEAVY PIGS OBSERVED AT THE SLAUGHTERHOUSE

C. Tansini<sup>1</sup>, A. Gazzola<sup>1</sup>, S. Bariselli<sup>1</sup>, F. Guadagno<sup>1</sup>, A. Ianieri<sup>2</sup>, S. De Luca<sup>2</sup>, S. Ghidini<sup>2</sup>, G.L. Alborali<sup>1</sup>, F. Scali<sup>1</sup>, F. Vezzoli<sup>1</sup>, <u>A.M. Maisano<sup>1</sup></u>

<sup>1</sup>Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna (IZSLER), Brescia, Italy <sup>2</sup>Department of Food and Drug, University of Parma, Via del Taglio 10, 43126 Parma, Italy

#### AWN-PP-21

PARITY, LAMENESS STATUS AND STEREOTYPIES IMPACT THE USE OF POINT-SOURCE ENRICHMENT IN GROUP-HOUSED SOWS

<u>P. Zhitnitskiy</u><sup>1</sup>, C. Terreaux<sup>2</sup>, H. Phillips<sup>3</sup>, B. Ventura<sup>3</sup> <sup>1</sup>University of Minnesota College of Veterinary Medicine <sup>2</sup>Charles River Laboratories <sup>3</sup>University of Minnesota

#### AWN-PP-22

IMPACT ON MORTALITY, MEDICATION USE AND WEIGHT DAILY GAIN OF THE ADMINISTRATION OF AN INJECTABLE COMBINATION OF GLEPTOFERRON + TOLTRAZURIL VS. AN INJECTABLE DEXTRAN IRON PREPARATION. D. Ponzoni<sup>1</sup>, F. Cominotti<sup>3</sup>, P. Casappa<sup>3</sup>, D. Sperling<sup>2</sup>, E. Pileri<sup>3</sup> <sup>1</sup>Swine pratictioner, Italy <sup>2</sup>Ceva Animal Health, France <sup>3</sup>CEVA Animal Health, Italy

#### AWN-PP-23

INFLUENCE OF THE APPLICATION METHODS OF IRON/ANTICOCCIDIAL PRODUCTS ON THE BEHAVIOUR AND ASSOCIATED STRESS FACTORS OF SUCKLING PIGLETS

<u>M. Rodríguez</u><sup>1</sup>, J. Morales<sup>1</sup>, G. Díaz-Amor<sup>1</sup>, A. González-Bulnes<sup>2</sup>, H. Karembe<sup>3</sup>, D. Sperling<sup>3</sup> <sup>1</sup>PigCHAMP Pro Europa <sup>2</sup> Universidad Cardenal Herrera-CEU, CEU Universities, C/ Tirantlo Blanc, 7, 46115 Alfara del Patriarca, Valencia, Spain <sup>3</sup> Ceva Santé Animale, 10 Avenue de la Ballastière, 33500 Libourne - France

#### AWN-PP-24

INSTALLATION OF A PIG TOILET IN A NURSERY PEN WITH STRAW-LITTERED LYING AREA <u>M. Tillmanns</u><sup>1</sup>, K. Scheepens<sup>2</sup>, N. Kemper<sup>1</sup>, M. Fels<sup>1</sup>

<sup>1</sup>University of Veterinary Medicine Hannover, Foundation, Institute for Animal Hygiene, Animal Welfare and Farm Animal Behaviour

<sup>2</sup>Educatijeboerderij Walnoot & Wilg, Oirschot, Foundation, The Netherlands

INVESTIGATION INTO THE OPTIMIZATION OF THE AUTOMATED ISOFLURANE ANESTHESIA FOR THE PERFORMANCE OF SAFE, PAINLESS CASTRATION OF PIGLETS UNTIL THE SEVENTH DAY OF LIFE.

J. Ruedebusch<sup>1</sup>, S. Kaestner<sup>2</sup>, M. Wendt<sup>1</sup>, K. Waldmann<sup>1</sup>, <u>A. Von Altrock<sup>1</sup></u>

<sup>1</sup>Clinic for Swine, Small Ruminants, Forensic Medicine and Ambulatory Service, University of Veterinary Medicine Hannover, Foundation, D-30173 Hannover, Germany

<sup>2</sup> Clinic for Small Animals, University of Veterinary Medicine Hannover, Foundation, D-30559 Hannover, Germany

#### AWN-PP-26

IS THE CARCASE QUALITY OF ENTIRE MALES VACCINATED AGAINST BOAR TAINT COMPATIBLE WITH DRY-CURED HAMS PROCESSED IN SOUTHWEST FRANCE?

<u>P. Charrier<sup>1</sup>, F. Colin<sup>2</sup></u>

<sup>1</sup>LES BASTIDES DU SUD, 9 Chemin de Brousse, 64160 MORLAAS, France <sup>2</sup>ZOETIS, Bâtiment VIVA, 10 Rue Raymond David, 92240 Malakoff, France

#### AWN-PP-27

IS THE CARCASE QUALITY OF IMMUNOCASTRATED MALE PIGS SUITABLE FOR THE PRODUCTION OF DRY-CURED 'AUVERGNE' HAMS?

#### L. Larraillet<sup>1</sup>, F. Colin<sup>2</sup>

<sup>1</sup>SELARL DES VOLCANS, 9 Rue de Gutenberg, 15000 Aurillac, France <sup>2</sup>ZOETIS, Bâtiment VIVA, 10 Rue Raymond David, 92240 Malakoff, France

#### AWN-PP-28

KEEPING PIGS WITH UNDOCKED TAILS – CAN A FEED ADDITIVE PREVENT TAIL BITING IN WEANERS? J. Aundrup<sup>1</sup>, G. Bruggeman<sup>2</sup>, I. Hennig-Pauka<sup>3</sup>

<sup>1</sup>Swine Health Service, Chamber of Agriculture Lower Saxony, Oldenburg, Germany

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<sup>3</sup> Field Station for Epidemiology, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany

#### AWN-PP-29

TIMING OF EUTHANASIA - IS IT AN ECONOMIC OR ANIMAL WELFARE ISSUE?

L. Gombos<sup>1</sup>, H. Rita<sup>2</sup>, A. Botond<sup>2</sup>, V. Laszlo<sup>3</sup>

<sup>1</sup>Agrofeed Ltd., Győr, Hungary

<sup>2</sup> University of Győr, Wittmann Antal Plant-, Animal- and Food Sciences Multidisciplinary Doctoral School <sup>3</sup> Bold Agro Ltd, Derecske

#### AWN-PP-30

THE ABILITY OF AN ALGOCLAY-BASED MYCOTOXIN DECONTAMINANT TO DECREASE THE SERUM LEVELS OF ZEARALENONE AND ITS METABOLITES IN LACTATING SOWS J. Laurain<sup>1</sup>, M. Rodriguez<sup>1</sup>, X. Benthen De Grave<sup>2</sup>, R. Santos<sup>2</sup> <sup>1</sup>Olmix Group, Brehan, France

<sup>2</sup> Schothorst Feed Research, Lelystad 8218 NA, The Netherlands.

#### AWN-PP-31

THE EVALUATION OF HEAT STRESS IN FATTENING PIGS BY ARTIFICIAL HEATING

L. De Prekel<sup>1</sup>, D. Maes<sup>1</sup>, A. Van Den Broeke<sup>2</sup>, B. Ampe<sup>2</sup>, M. Aluwé<sup>2</sup>

<sup>1</sup>Porcine Health Management, Department Internal medicine, reproduction and population medicine, Faculty of Veterinary Medicine University Ghent, Merelbeke, Belgium <sup>2</sup>Institute for Agricultural, Fisheries and Food Research (ILVO), Melle, Belgium

#### AWN-PP-32

APPLICATION OF HEMICELL HT<sup>™</sup> – A <sup>®</sup>-MANNANASE ENZYME – COMBINED WITH A REDUCED ENERGY CONTENT RETAINS PERFORMANCE AT A LOWER PRODUCTION COST PER KG CARCASS WEIGHT F. Vangroenweghe<sup>1</sup>

<sup>1</sup>BU Swine & Ruminants, Elanco Benelux, Elanco Animal Health

#### AWN-PP-33 ENRICHED FEED, INCREASED LIGHT AND ACCESS TO FIBRES DECREASED TAIL BITING

<u>P. Wallgren<sup>1</sup>, M. Johansson<sup>2</sup>, S. Johansson<sup>2</sup></u> <sup>1</sup>National Veterinary Institute SVA, 751 89 Uppsala, Sweden <sup>2</sup>Nibble Farming, Tillberga, 725 95 Västerås, Sweden

#### AWN-PP-34

PRACTICAL POINTERS FOR IMPROVEMENT IN DRY FEED CONSUMPTION BY SUCKLING PIGLETS

J. Jeusselin<sup>5</sup>, C. Teixeira-Costa<sup>1</sup>, A. Lebret<sup>5</sup>, M. Roumezi<sup>2</sup>, V. Normand<sup>5</sup>, T. Nicolazo<sup>3</sup>, C. Chevance<sup>4</sup>, P. Berton<sup>5</sup>, F. Bouchet<sup>5</sup>, M. Brissonnier<sup>5</sup>, <u>G. Boulbria<sup>5</sup></u>

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<sup>3</sup>PORC.SPECTIVE, Swine Vet practice, Noyal-Pontivy, France

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<sup>5</sup> PORC.SPECTIVE, Swine Vet practice, ZA de Gohélève, 56920 Noyal-Pontivy, France

#### AWN-PP-35

#### PREVALENCE OF GASTRIC LESIONS IN FINISHERS IN POLAND

P. Cybulski<sup>1</sup>, M. Larska<sup>2</sup>, A. Woźniak<sup>3</sup>, A. Jabłoński<sup>4</sup>, T. Stadejek<sup>3</sup>

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<sup>4</sup> Center of Translational Medicine, Faculty of Veterinary Medicine, Warsaw University of Life Sciences, Warsaw, Poland

#### AWN-PP-36

PREVALENCE OF GASTRIC LESIONS IN SOWS IN POLAND <u>P. Cybulski</u><sup>1</sup>, J. Urban<sup>2</sup>, E. Michalik<sup>1</sup>, A. Woźniak<sup>3</sup>, T. Stadejek<sup>3</sup>

<sup>1</sup>Goodvalley Agro S.A., Przechlewo, Poland

<sup>2</sup> Joachim Urban - Private Veterinary Practice, Lipka, Poland

<sup>3</sup>Department of Pathology and Veterinary Diagnostics, Institute of Veterinary Medicine, Warsaw University of Life Sciences, Warsaw, Poland

#### AWN-PP-37

PREVALENCE OF WHITE LINE ALTERATIONS IN SELECTED SOW FARMS IN POLAND

P. Cybulski<sup>1</sup>, R. Kondratiuk<sup>1</sup>, P. Talaga<sup>1</sup>, A. Jabłoński<sup>2</sup>, E. Michalik<sup>1</sup>

<sup>1</sup>Goodvalley Agro S.A., Przechlewo, Poland

<sup>2</sup> Center of Translational Medicine, Faculty of Veterinary Medicine, Warsaw University of Life Sciences, Warsaw, Poland

#### AWN-PP-38

PROVISION OF WEBBING BELT AND COTTON TOWEL FOR PREPARTUM SOWS WITH CRATING SYSTEM: THEIR EFFECTS ON FARROWING PERFORMANCE

<u>J. Lee<sup>1</sup>,</u> Y. Kim<sup>1</sup>, H. Jeon<sup>1</sup>, H. Choi<sup>1</sup>, J. Kim<sup>1</sup>, J. Kang<sup>2</sup>, K. Kang<sup>2</sup>, J. Yun<sup>1</sup> <sup>1</sup>Department of Animal Science, Chonnam National University, South Korea <sup>2</sup>Swine Research Center, Sunjin R&D Institude, Sunjin Co., Ltd, South Korea

AWN-PP-39

L-CARNITINE SUPPLEMENTATION DURING GESTATION INCREASES PIGLET BIRTHWEIGHT J. Bach<sup>1</sup>, L. Kunstmann<sup>2</sup>, L. Meedom<sup>2</sup>, L. Claerhout<sup>3</sup>, W. Depondt<sup>3</sup> <sup>1</sup>Danvet K/S <sup>2</sup>Huvepharma NV, Denmark <sup>3</sup>Huvepharma NV, Belgium

AWN-PP-40

BETAINE HYDROCHLORIDE CAN REPLACE CHOLINE CHLORIDE IN FEED FOR LACTATING SOWS L. Vande Maele<sup>1</sup>, A. Van Der Aa<sup>1</sup>

<sup>1</sup>Orffa Additives BV, Breda, The Netherlands

SERUM CORTISOL LEVELS AS THE MARKER FOR EVALUATION OF STRESS RESPONSE IN DIFFERENT PIG PRODUCTION SYSTEMS

M. Stukelj<sup>1</sup>, J. Plut<sup>1</sup>, I. Golinar-Oven<sup>1</sup>, P. Njegovec<sup>2</sup>, T. Snoj<sup>3</sup>

<sup>1</sup>University of Ljubljana, Veterinary Faculty, Clinic for Reproduction and Large Animals, Clinic for Ruminants and Pigs, Ljubljana, Slovenia

<sup>2</sup>VOA d.o.o, Domzale, Slovenia.

<sup>3</sup>University of Ljubljana, Veterinary faculty, Institute of Preclinical Sciences, Ljubljana, Slovenia

#### AWN-PP-43

SERUM- AND SALIVA BIOMARKERS IN PIGS FED WITH AN IMMUNOMODULATORY FEED ADDITIVE IN NURSERY

<u>J. Aundrup</u><sup>1</sup>, J. Hardt<sup>2</sup>, L. Kreienbrock<sup>3</sup>, G. Bruggeman<sup>4</sup>, J.J. Cerón<sup>5</sup>, I. Hennig-Pauka<sup>6</sup>

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<sup>5</sup> Interdisciplinary Laboratory of Clinical Analysis of the University of Murcia (Interlab-UMU), Regional Campus of International Excellence 'Campus Mare Nostrum', University of Murcia, Campus de Espinardo no16, 30100 Espinardo, Murcia, Spain

<sup>6</sup>Field Station for Epidemiology, Bakum, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany

#### AWN-PP-44

THE IMPACT OF HOUSING AND WEANING MANAGEMENT ON POST WEANING DIARRHOEA – BASED ON A SEMI-STRUCTURED QUESTIONNAIRE IN 250 AUSTRIAN PIGLET PRODUCING FARMS.

R. Renzhammer<sup>1</sup>, A. Käsbohrer<sup>2</sup>, S. Vetter<sup>2</sup>, A. Ladinig<sup>1</sup>

<sup>1</sup>University Clinic for Swine, University of Veterinary Medicine Vienna, Austria

<sup>2</sup>Institute for Veterinary Public Health and Epidemiology, University of Veterinary Medicine Vienna, Austria Background and Objectives

#### **FLASH TALKS**

FTP-OP-01

DIFFERENCE IN LAWSONIA INTRACELLULARIS BETWEEN BATCHES AND DAYS POST ENTRY MUST BE CONSIDERED WHEN PERFORMING DIAGNOSTICS OF ILEITIS IN FINISHER HERDS.

S.L. Musse<sup>1</sup>, G. Blach Nielsen<sup>2</sup>, H. Stege<sup>3</sup>, N. Rosager Weber<sup>4</sup>, H. Houe<sup>5</sup>

<sup>1</sup>MSD Animal Health Nordic, Havneholmen 25, DK - 1561 København V and University of Copenhagen, Department of Veterinary and Animal Sciences, Section for Animal Welfare and Disease Control, Grønnegårdsvej 8, DK - 1870 Frederiksberg C

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<sup>4</sup>SEGES Pig Research Centre, 1609 Copenhagen V, Denmark

<sup>5</sup> University of Copenhagen, Department of Veterinary and Animal Sciences, Section for Animal Welfare and Disease Control, Grønnegårdsvej 8, DK -1870 Frederiksberg C

#### FTP-OP-02

EVALUATION OF THE FAECAL MICROBIOTA OF HEALTHY POST-WEANING PIGS USING 16S RNA SEQUENCING <u>M. Klahr Fritz</u><sup>1</sup>, P. Wallgren<sup>2</sup>, M. Sjölund<sup>1</sup>, M. Leijon<sup>2</sup>

<sup>1</sup>National Veterinary Institute (SVA), Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden <sup>2</sup>National Veterinary Institute (SVA), Uppsala, Sweden

#### FTP-OP-03

SALIVA VS. TONSILLAR SWABBING WITH A NYLON SWAB TO MEASURE ORAL STREPTOCOCCUS SUIS LOAD L. Faba', <u>K. Venrooij</u>', P. Van Lith', R. Litjens'

<sup>1</sup>Trouw Nutrition R&D, the Netherlands

#### FTP-OP-04

EFFECT OF THE COMBINATION OF AN IMMUNE MODULATOR AND A NUTRIENT ABSORPTION ENHANCER ON GROWTH PERFORMANCE AND HEALTH OF WEANED PIGLETS

A. Desbruslais<sup>1</sup>, J. Aka<sup>1</sup>, <u>P. Bukowska<sup>1</sup></u>, R. Neto<sup>1</sup>, D. Gonzalez Sanchez<sup>1</sup>, A. Hermes<sup>2</sup> <sup>1</sup>KEMIN EUROPA NV <sup>2</sup>GS agri eG, Germany

#### FTP-OP-05

IMPACT OF CONTROLLING COCCIDIOSIS AND IRON DEFICIENCY ANAEMIA ON PIGLET QUALITY AT WEANING. E. Udvarhelyi<sup>1</sup>, L. Villagrasa<sup>2</sup>, T. Abizanda<sup>2</sup>, O. Mitjana<sup>1</sup>, M.V. Falceto<sup>1</sup>, <u>D. Espigares<sup>3</sup></u>, L. Garza<sup>3</sup>

<sup>1</sup>Departament of Animal Pathology, University of Zaragoza, Spain

<sup>2</sup> Mazana Group, Spain

<sup>3</sup>Ceva Salud Animal, Barcelona, Spain

#### FTP-OP-06

ASSESSMENT OF THE PRESENCE OF NON-RESPONDING, SERONEGATIVE SOWS AFTER VACCINATION AGAINST PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME (PRRS) VIRUS

J. Fiers<sup>1</sup>, D. Maes<sup>2</sup>, M. Tignon<sup>3</sup>, A. Cay<sup>3</sup>

<sup>1</sup>Department Infectious diseases in animals, Unit Enzootic, vectorborne and bee diseases, Sciensano, Uccle, Belgium / Department of Internal Medicine, Reproduction and Population Medicine, Faculty of Veterinary Medicine, Ghent University, Merelbeke, Belgium

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#### FTP-OP-07

COMPARISON OF MYCOPLASMA HYOPNEUMONIAE SHEDDING IN EXPERIMENTALLY CHALLENGED PIGLETS VACCINATED WITH A NOVEL ORAL VACCINE AND AN INJECTABLE COMMERCIAL VACCINE

<u>K. Sonalio<sup>1</sup></u>, G. C. Ferreira<sup>1</sup>, M. Lopes Mechler-Dreibi<sup>1</sup>, H. M. S. Almeida<sup>1</sup>, G. Y. Storino<sup>1</sup>, F. A. M. Petri<sup>1</sup>, T. S. Martins<sup>3</sup>, H. J. Montassier<sup>1</sup>, O. A. Sant'Anna<sup>4</sup>, L. C. C. Silva<sup>5</sup>, M. C. A. Fantini<sup>5</sup>, Dominiek Maes<sup>2</sup>, Luis G. De Oliveira<sup>1</sup>

<sup>1</sup>São Paulo State University (Unesp), School of Agricultural and Veterinarian Sciences, Jaboticabal, Brazil <sup>2</sup>Faculty of Veterinary Medicine, Ghent University, Merelbeke, Belgium

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<sup>4</sup> Butantan Institute, São Paulo, Brazil.

<sup>5</sup>University of São Paulo (USP), Physics Institute, São Paulo, Brazil

#### FTP-OP-08

VACCINATION AGAINST ACTINOBACILLUS PLEUROPNEUMONIAE IN A SUBCLINICALLY AFFECTED FINISHING FARM EXPERIENCING PORCINE RESPIRATORY DISEASE COMPLEX

F. Reimus<sup>1</sup>, <u>C. Söckler</u><sup>2</sup>, V. Cvjetković<sup>3</sup>, M. Lisgara<sup>4</sup>, P. Mortensen<sup>5</sup>

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<sup>4</sup>Ceva Hellas LLC, 15, Ag. Nikolaou street, 174 55 Alimos (Attiki) Greece

<sup>5</sup>Ceva Corporate Swine Team

#### FTP-OP-09

PREVALENCE OF UMBILICAL OUTPOUCHINGS IN PIGS - A CROSS SECTIONAL STUDY

M. Lillevang Hansen<sup>2</sup>, T.B. Jensen<sup>1</sup>, C.S. Kristensen<sup>3</sup>, I. Larsen<sup>2</sup>, K.S. Pedersen<sup>2</sup>

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<sup>3</sup>Ceva Animal Health, Ladegaardsvej 2, 7100 Vejle, Denmark

#### FTP-OP-10

DETECTION OF RESPIRATORY VIRUSES IN OUTBREAKS OF PORCINE RESPIRATORY DISEASE COMPLEX IN NURSERIES.

<u>G. Martín-Valls</u><sup>1</sup>, Y. Li<sup>1</sup>, I. Díaz<sup>2</sup>, E. Cano<sup>3</sup>, S. Sosa Portugal<sup>4</sup>, E. Mateu<sup>5</sup>

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<sup>5</sup>Department de Sanitat i Anatomia Animals, Facultat de Veterinària, Universitat Autònoma de Barcelona, 08193 Cerdanyola del Vallès, Spain

#### FTP-OP-11

EFFECTIVE ASFV SURVEILLANCE BASED ON ANTIBODY AND NUCLEIC ACID DETECTION: THE EXPERIENCE OF VIETNAM

L. Gimenez-Lirola<sup>1</sup>, W. Nelson<sup>2</sup>, R. Rauh<sup>2</sup>, N. Venkatswaran<sup>2</sup>, K. Venkatswaran<sup>2</sup>, A. Saunders<sup>2</sup>, J. Walker<sup>2</sup> <sup>1</sup>Innoceleris LLC

<sup>2</sup>Tetracore Inc

#### FTP-OP-12

SWINE INFLUENZA A TYPING RESULTS IN GERMANY FROM Q1-Q3 2018, 2019, 2020 AND 2021

K. Lillie-Jaschniski<sup>1</sup>, K. Strutzberg-Minder<sup>2</sup>, M. Koechling<sup>3</sup>, <u>S. Pesch<sup>4</sup></u>, H. Smits<sup>5</sup>

<sup>1</sup>Ceva Santé Animale, Libourne, France

- <sup>2</sup> IVD GmbH, Innovative Veterinary Diagnostics, Seelze, Germany
- <sup>3</sup>Ceva Tiergesundheit GmbH, Düsseldorf, Germany
- <sup>4</sup> Ceva Innovation Center, Dessau, Germany

<sup>5</sup>Ceva S.A.

#### FTP-OP-13

ELECTRONIC SOW FEEDING: CHARACTERIZING FEEDING PATTERNS OF GESTATING SOWS AND THEIR ASSOCIATIONS TO REPRODUCTIVE PERFORMANCE

M. Ornelas<sup>1</sup>, E. Garcia Manzanilla<sup>1</sup>, M. Rodrigues Da Costa<sup>2</sup>

<sup>1</sup> Pig Development Department, Teagasc Animal and Grassland Research and Innovation Centre, Moorepark, Fermoy, Co. Cork, Ireland & School of Veterinary Medicine, University College Dublin, Belfield, Dublin, Ireland

<sup>2</sup>Epidemiology Research Unit, Department of Veterinary and Animal Science, Northern Faculty, Scotland's Rural College (SRUC), An Lòchran, 10 Inverness Campus, Inverness, Scotland, IV2 5NA, UK

#### FTP-OP-14

BIOACTIVE FRACTIONS OF MILK AT DIFFERENT LACTATION TIMES IN LARGE-WHITE SOWS

A. Omede<sup>1</sup>, H. Argüello<sup>3</sup>, A. Carvajal Urueña<sup>3</sup>, <u>E.G. Manzanilla<sup>2</sup></u>

<sup>1</sup>Pig Development Department, Teagasc - Ireland

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<sup>3</sup> Departmento Sanidad Animal, Facultad de Veterinaria. Universidad de León, Campus de Vegazana s/n, 24071- León, Spain





# SOCIAL PROGRAMME



### SOCIAL PROGRAMME WEDNESDAY, MAY 11

18.00 - 19.30 WELCOME RECEPTION

Informal welcome cocktail - included in the registration fee

The welcome reception takes place at the conference venue after the scientific programme.

A special occasion to meet again with colleagues and friends after such a long time!

Sharing the excellent Hungarian food with old and new friends has never been so tasty!

Moreover, we proudly show and invite our guests to enjoy the unique 'Hungaricum' of Mangalica pork products at the welcome reception.

Mangalica is a traditional Hungarian pig breed with a thick, curly, long coat of hair. It has given the idea of the logo of the 13<sup>th</sup> ESPHM. Mangalica is usually raised under extensive, open-air, ecological farm conditions, grows slower and has much more fatty pork than the modern pig breeds. The muscle is finely interlaced with fat which gives a very special, rich taste of the pork. The taste of these (usually 'hand-made') products is even more enriched with the fine Hungarian spices.

## THURSDAY, MAY 12

19.30 - 23.30 FAREWELL DINNER

Ticket required - event not included in the registration fee

The Europa Boat will host the ESPHM 2022 Farewell Dinner. A breathtaking and unforgettable occasion to have a look at Budapest and its highlights from a different point of view: leave the riverside behind to have an exceptional experience!

Guests who have purchased the ticket are invited to arrive at the Boat starting from 19.30. The boat will leave at 20.00 and, after two hours cruising on the Danube, guests can enjoy the musical entertainment on the boat staying at the port.

The information about the port where the boat will leave from and arrive at, is printed on the ticket delivered at the registration desk inside the badge folder.





# GENERAL INFORMATION

## **GENERAL INFORMATION**

#### **Biosecurity**

Please be aware of the following regulation and recommendations in order to avoid ASF transmission or contamination:

• Importation of any food product made of pork to Hungary, from any country outside the EU is strictly forbidden

• As a professional, keep all personal biosecurity measures, which are necessary to prevent ASFV contamination

• Wild boars in the forests surrounding Budapest and at substantial part of the territory of Hungary may be ASFV infected. Any contact with the wildlife is the exclusive responsibility of the visitor. The Symposium organizers disclaim any responsibility concerning ASFV contamination.



#### **Conference Venue and Attendance**

The 13<sup>th</sup> European Symposium of Porcine Health Management is held at

#### Budapest Congress Center Jagello út 1-3 1123 Budapest, Hungary

#### LANGUAGE

The official language of the Symposium is English.

#### **REGISTRATION DESK OPENING HOURS**

Wednesday, May 11: 11.00 - 18.00 Thursday, May 12: 8.00 - 18.00 Friday, May 13: 8.00 - 13.00 Please go to the registration desk upon arrival to collect your Symposium kit.

#### **CLOAKROOM OPENING HOURS**

Wednesday, May 11: 11.00 – 20.00 Thursday, May 12: 8.00 – 18.30 Friday, May 13: 8.00 – 14.00

#### **E-POSTERS AND ESPHM PLATFORM**

All registered participants can access the authors' scientific contributions during the Symposium through e-posters stations located at the 2<sup>nd</sup> floor or online through the ESPHM platform (www.esphm.org).

The recordings of keynote lectures, oral presentations and flash talks will be uploaded on the platform too, after the Symposium.

#### WIFI

The WiFi access is free for all attendees and accessible in all the venue area: NETWORK: ESPHM2022 PASSWORD: esphm2022

#### **NAME BADGE**

A name badge will be required to access the Symposium areas. Participants will receive it when they check in at the registration desk. It must be worn at all times.

#### **CONGRESS KIT**

The congress kit can be collected at the Congress Kit Desk located in the registration area, upon presentation of the congress-kit ticket provided with the badge.

#### **CERTIFICATE OF ATTENDANCE**

Certificates of attendance will be sent to the attendees via e-mail, after the Symposium.

#### APP

Download the Symposium App and stay tuned! Search for "ESPHM2022" on your mobile APP store or scan the QR Code:









#### **PHOTOGRAPHS AND VIDEOS**

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

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#### **Useful Information**

#### **SHUTTLE BUS FOR THE AIRPORT**

Shuttle buses for the airport (approx. one-hour far from the congress venue) will be available for the attendees and will leave from the Budapest Congress Center on Friday, May 13 in the following time slot: 8.30 - 13.20. Please inform the Organizing Secretariat at the registration desk in case of need.

#### **PUBLIC TRANSPORT AND TAXI**

To consult public transport time schedules, itineraries and ticket prices please visit https://bkk.hu/en/. The main taxi companies are:

 Főtaxi
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 6X6 Taxi
 +36 1 666 6666

 City Taxi
 +36 1 211 1111

 Budapest Taxi +36 1 777 7777

## EMERGENCY NUMBER AND INSURANCE

Calling the ambulance, the police, the fire service, and the general emergency number (112) is free of charge.

Registration fees do not include insurance of participants against personal accidents, sickness, and/or cancellations by any party, theft, loss or damage to personal possessions.



#### DMC

Hotel reservations and social activities information One Event Hungary Kft

Ms. ANITA HORVATH ahorvath@one-event.hu +36 30 326 9203





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# Let's have a coffee together



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Source: Horsington J. et al. Efficacy of Simultaneous Intradermal Vaccination of Swine against Porcine Circovirus 2, Porcine Reproductive and Respiratory Syndrome Virus, Mycoplasma hyopneumoniae and Lawsonia intracellularis. Animals 2021, 11, 2225.





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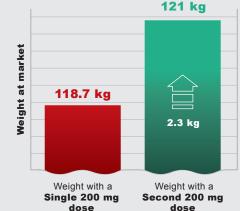
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- 1 An investigation of iron deficiency and anemia in piglets and the effect of iron status at weaning on post-weaning performance: Perri A et al., JSHAP. 2016;24:10-20.
- 2 Impact of iron dose and hemoglobin concentration on wean-finish weight gain: Olsen C. & L. Fredericks IPVS. 2018; 910.
- 3 The economocs of iron deficiency anemia on swine production: Olsen C. ESPHM 2019. p252.

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#### PHARMACOSMOS

Uniferon® is a registrered trademark of: Pharmacosmos A/S Roervangsvej 30 4300 Holbaek Denmark







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## NOTE




## NOTE



## NOTE




## ORGANIZERS

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## PIC Health Assurance Team: Committed to Protect Producers' Herd Health



### **Our Principles**

Comprehensive health surveillance

Commitment to animal welfare

Science-based biosecurity



Guided by the principles of our **Global Health Assurance Programme**, we aim to protect our customers' herds by doing our best to maintain a high health status within the **PIC system**.

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