

Thursday, 27th June

Opening and welcome

Antimicrobials: Security and safety aspects for producers and consumers

Ulf Magnusson:

Prudent and effective antimicrobial use in a diverse livestock and consumer's world

Stefan Schwarz:

Actual resistance situation among bacterial pathogens of food-producing animals

Coffee break

Antimicrobials: Security and safety aspects for producers and consumers (continued)

Theo Lam:

Antimicrobial use in dairy cattle in the Netherlands: resistance, risks, regulations and opportunities

Sarne DeVliegher:

The future-proof bovine practitioner understands that improved mastitis management is key to prudent use of antimicrobials on dairy farms

Locomotion disorders: Impact on performance and welfare

Christoph Mülling:

Etiopathogenesis of non-infectious claw lesions in cattle and pigs – is it all about biomechanics??

Mark Wilson:

Inflammation, the foot print of lameness (focus on swine)

Lunch

<i>Gut microbiome and animal health</i>	<i>Locomotion disorders: Impact on performance and welfare (continued)</i>	<i>Production diseases and welfare in laying hens</i>	<i>Climate change and microclimate</i>
<p>Bernd Kaspers: Microbial colonization is critical for immune system development</p>	<p>Laura Radall: Lameness in dairy cows; where have we been and where are we going?</p>	<p>Mike Toscano: The causes of keel bone fractures in laying hens</p>	<p>Silja Dennier: Permanent long-term surveillance of ammonia in livestock – possibilities of a novel sensor technology</p>
<p>Silke Rautenschlein: Infectious bursal disease virus infection leads to modifications of gut-associated immune parameters and microbiota composition</p>	<p>Doerte Doepfer: Digital Dermatitis Update – and what should artificial intelligence do for you in the near future?</p>	<p>Maja Makagon: Environmental factors in Keel bone damage</p>	<p>Zvi Roth: Impact of heat stress on cow reproduction and fertility</p>
<p>Ted Elsasser: Supporting Gut Health: A Driving Principle in Developing Alternatives to Antibiotics in Food Animal Management</p>	<p>Gosia Zobel: Hoof care and lameness: Learning from commercial dairy goat farms</p>	<p>Ian Dunn: Quality of the laying hen skeleton; insights and solutions from genetics</p>	
<p>Ivan Rychlik: How to select gut microbiota members with increasing chicken resistance to enteric diseases</p>	<p>Marisa Erasmus: Advances in turkey lameness and gait analysis</p>	<p>Dirk-Jan De Koning: Identifying genetic components contributing to bone strength in laying hens</p>	

Break

<i>Graduate students event: Grant and Manuscript writing</i>
<p>Grants Office and Euresearch Office: Horizon2020 career grants for early-career researcher</p>
<p>Mike Toscano: Grant writing for young scientists</p>
<p>James Sartin: Surviving the review process, an editor's perspective</p>

Friday, 28th June

Precision livestock farming: Animal health and welfare I

Daniel Berckmans:

Precision Livestock Farming, a game changer for the livestock sector

Adolf Dörig:

Animal Health Surveillance and Smart Farming: Cyber Security in times with Robots, Big Data, AI and Social Media

Coffee break

Precision livestock farming: Animal health and welfare I (continued)

Jeff Bewley:

Precision Dairy Opportunities and Challenges

Dominiek Maes:

Intensive pig production systems: good or bad for animal health and welfare?

Marian Dawkins:

Automated assessment of welfare in chickens

Metabolism and disease

Barry Bradford:

Toward a homeostatic view of inflammation: The transition dairy cow example

Geert Opsomer:

Innovative insights in the interaction between metabolic stress and reproduction in high yielding dairy cows

José Santos:

Mechanisms and impact of inflammatory diseases on reproduction in dairy cows

Genetics and animal health

Christine Baes:

Breeding for Health, Welfare, and Efficiency: Help Wanted

Hans Daetwyler:

Combining multiple omics data types to breed healthier animals

Jens Tetens:

Why does the hen peck? – Employing omics-approaches to understand the motivation for an unwanted behavior

Lunch

Precision livestock farming: Animal health and welfare I (continued)

Lubor Kostal:

Use of cognitive bias as a welfare tool in poultry

Metabolism and disease (continued)

Erminio Trevisi:

Interaction between inflammation and metabolism in the periparturient dairy cows

Juan Llor:

Amino acids and the regulation of oxidative stress and immune function in dairy cows

Sven Dänicke:

Ketosis in dairy cows: Prevention and therapy

Genetics and animal health (continued)

Barbara Harlizius:

Breeding for resilience: New opportunities in modern pig breeding programs

Christine Tait-Burkard:

From lab to farmyard: genome editing our livestock

Colostrum and neonate health

Chantal Farmer:

Colostrum in swine: essential roles and factors of variation

Adam Geiger:

Colostrum: Back to the basics with immunoglobulins

Hans-Joachim Schuberth:

Beyond immunoglobulins: The immunoregulatory role of colostrum (cattle and swine)

Nicole Kemper:

Update on Postpartum Dysgalactia Syndrome in Sows

Conference Dinner

Saturday, 29th June

Precision livestock farming: Animal health and welfare II

Marina von Keyserlingk:

Providing a good life for farm animals: barriers and opportunities

Trevor DeVries:

Refining the utility of precision behavior monitoring of dairy cattle

Coffee break

Loss of mineral homeostatis and associated diseases

Laura Hernandez:

Role of the mammary gland in control of calcium homeostasis during the transition period

José Santos:

Mineral metabolism in the periparturient period: implications to health and productivity

Disease aspects in reproduction

Olli Peltoniemi:

Management of parturition in the hyper prolific sow

Alex Grahofer:

Diagnosis of endometritis and cystitis: use of biomarkers

Lunch

<i>Loss of mineral homeostatis and associated diseases</i>	<i>Disease aspects in reproduction (continued)</i>	<i>Infectious diseases and pathobiology</i>	<i>Persistent health effects of juvenile development</i>
<p>Darrin Karcher: Skeleton health: Nutritional and management interventions</p>	<p>Martin Sheldon: Metabolism and host-pathogen interactions shape the development of uterine disease in dairy cows</p>	<p>Dan Givens: Diagnosis and control of viral diseases of reproductive importance (emphasis on cattle, including some info on pigs)</p>	<p>Korinna Huber: Nutrition in early life imprints metabolic health</p>
<p>Laura Amundson: Lessions learned from the hypovitaminosis D kyphotic pig model</p>	<p>Seiji Katagiri: Repeat breeding: The cause and the possible treatment to restore fertility</p>	<p>Nina Wolfrum: Infectious laryngotracheitis – an update on current approaches for prevention of an old disease</p>	<p>John Mee: Denormalising poor young stock management – dealing with ‘farm blindness’</p>
	<p>David Kenny: Factors affecting reproductive wastage in beef cattle herds</p>	<p>Olivier Sparagano: Impact of the poultry red mite (<i>Dermanyssus gallinae</i>) on poultry production systems</p>	<p>Gosia Zobel: Factors important for goat kid health and welfare</p>
	<p>Akio Miyamoto: Sensing sperm by maternal immune crosstalk: A potential mechanism for interfering with fertility in the cow</p>		