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SUMMIT

YOUNG ANIMAL NUTRITION

3-4 MARCH 2020
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INTRODUCING THE YOUNG ANIMAL NUTRITION SUMMIT 2020

A NOTE FROM THE EDITOR

The feed industry and livestock producers are recognising the importance of feeding their animals an optimum nutrient supply in the first few weeks of life in order to get productivity gains throughout that animal's lifetime. Major feed manufacturers have been investing heavily in this area in the past few years. However, the feed sector, to support the production of high-quality protein needed globally by 2050, needs to be more refined in its understanding of when and what to put in young animal diets.

Our team has brought together agenda-setting figures from the science and business world, who will share their insights and ignite discussions that will inform your future research and business agendas in this critical area.

The programme sees engaging sessions on hot topics such as at how the feed industry can encourage gut health and immune system development, and the optimal nutritional approaches to combat piglet stress post weaning, as well as talks on how to enhance digestion in broiler chicks through the modification of feed form or particle size and through feed additive supplementation. In addition, we will hear from feed manufacturers on how they overcame production constraints such as EU regulation capping copper levels in piglet diets. International experts on maternal and embryonic nutrition will reveal how such novel approaches can benefit the progeny. A panel debate will explore alternatives to zinc oxide in piglet feed.

The wide range of presentation and discussion topics should provide inspiration for business strategy and new product development.



Jane Byrne
Senior Editor

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When:

Tuesday 3 March –
Wednesday 4 March 2020

Where:

Amsterdam Marriot Hotel

Over 100
industry-leading
delegates



15
expert speakers



Over 20
hours of valuable
networking time



Hear what our previous delegates have to say...

"A great way to network amongst the European scene and get a feeling for what's topical and what's a sensitive issue."

Brett Glencross, University of Stirling

"It has been a great opportunity for networking. The quality of the presentations were also good and I definitely learned a lot."

Beyhan de Jong, Rabobank

"The event gathered together the hottest speakers and topics in animal feed. The event was very informative, promoting the network and it was extremely useful in clarifying various topics in the animal feed industry."

André Almeida, ETSA SGPS SA

"Important source of information on current knowledge and future developments in feed proteins"

Carolien Makink, De Molenaar

10:30

Registration

Refreshments on arrival



Jane Byrne

Welcome from the Chair

Jane Byrne, Senior Editor, [FeedNavigator](#)



Ad van Wesel

Feeding young animals: fundament of later life

Ad van Wesel, Director of Nutrition and Innovation Centre (NIC), [ForFarmers](#)

The production of animal protein in Europe is facing a challenging era. On one hand, consumers expect low cost products in the supermarkets. On the other hand, there is pressure to produce in a sustainable way. This can be measured as: low feed conversions, the use of more by-products from the food industry as feed components, reduced phosphorous and protein in feed, maximized animal welfare, reduced use of trace elements as zinc and copper, and minimized use of antibiotics to correct health challenges. The first feeds young animals receive are not only crucial for the growth of the animal, but also for the development of the organs and microbiome. When this is not developed right from the start, all the other requirements will be difficult to achieve. YAF feeding thus forms the fundament of later life performance and health.



Rene Kwakkel

Early on-farm nutritional concepts: boosting GIT and immune development

Dr Rene Kwakkel, Programme Director, Animal Sciences and Associate Professor Poultry Nutrition, [Wageningen University](#)

One of the major developments in the gastrointestinal tract (GIT) of young poultry post hatch is the maturation of the immune system. Our research on early on-farm moist (wet) feeding of young broilers, in order to stimulate ('boost') their early age feed intake, seems to have potential. A moist or wet diet should predispose the GIT towards better development, an improved innate immune response, a quicker balanced microbial ecosystem, and hence, a better bird health status. Moreover, by using moist non-human edible co-products, we aim to reduce the pressure on the competition over agricultural land for either feed or food production.

- Moist diets at early ages stimulates feed intake
- Coarse diets induce reflux and functional properties of the GIT



Prof Richard Ducatelle

Starter diets for broilers, taking into consideration the immaturity of the gut microbiome

Prof Richard Ducatelle, Head of the Laboratory of Veterinary Pathology, [University of Ghent](#)

In contrast to mammals, chickens take up an adult type of feed from day of hatch. It takes approximately 10 days before an anaerobic environment is installed in the caeca allowing the initial steps of the establishment of a mature microbiota. Before that time, the breaking down of several components of the feed during passage through the intestinal tract is incomplete. Richard is involved in several research projects investigating the mechanisms by which feed additives and feed processing can improve gut health and digestion/absorption of nutrients during this starter phase. He tells us what's been learned so far and provides guidance for improving the performance during this starter phase.

- During the starter phase, the epithelial cells lining the intestine are extremely susceptible to (oxidative) stress from any source, even from the minerals in the feed supplement.
- Exogenous enzymes added to the feed can compensate for the shortage of host enzymes protecting the intestinal mucosa and microbial enzymes breaking down the NSP.
- Some probiotic microorganisms can support natural defense mechanisms in the gut.



Networking lunch



Dr Lourens Heres

Catch them young. How animal proteins improve the gut health of juvenile animals

Dr Lourens Heres, Manager Global Technical Support, [Darling Ingredients](#)

Proper feed not only provide nutrients, they also support animals' immunity and balance their microbiological flora. There's evidence that they support health. Together with farm biosecurity they reduce the burden of disease and the use of antibiotics. Because young animals are more prone to health disturbances and infection than adults, it's vital that we gain a greater understanding of how their resilience can be improved. This presentation looks at how plasma proteins can protect and enhance the immune systems of young animals across a wide range of species.

- A history of plasma proteins – their benefits and relationship with antibodies and bioactive peptides
- How plasma proteins improve food chains – circularity and improved sustainability
- How spray-dried plasma benefits young animals – a review of recent findings
- How the active components in plasma affect local and systemic immunity and microbiota across species



Jane Byrne

Panel discussion – Alternatives to zinc oxide use in piglet feed

Chair: **Jane Byrne**

Prof Charlotte Lauridsen, Professor, Department of Animal Science, [Aarhus University, Foulum](#)

Dr Alfons Jansman, Senior Scientist, [Wageningen Livestock Research](#)

Niels Kjeldsen, Senior Specialist in Livestock Innovation, [SEGES Danish Pig Research Centre](#)

Christine Brøkner, NPD Manager, [Hamlet Protein](#)



Prof Charlotte Lauridsen



Dr Alfons Jansman



Niels Kjeldsen



Christine Brøkner



Jos Houdijk

Too much of a good thing? Protein nutrition and gut health in weaner pigs

Jos Houdijk, Head of Monogastric Science Research Centre, [SRUC](#)

The level of dietary protein for weaner pigs, especially for the first two weeks or so post weaning, has traditionally been relatively high with the aim of assisting the weaning process. However, research over the last few decades has shown that whilst these high levels of dietary protein aim to support optimal growth, they are also risk factors for (sub-clinical) post weaning colibacillosis and transient diarrhoea, and, consequently, the net benefit of using high protein diets on productivity may be limited. A key component linking dietary protein levels and gut health is the amount of excess protein. Through several research projects over the last few years, Jos has been involved in the nutritional sensitivity of sub-clinical post weaning colibacillosis. Here, he will tell us about the approaches taken, what has been learnt to date and the knowledge gaps that remain on this topic.

- Protein quantity and quality in the immediate post weaning period influence resilience and resistance to experimentally induced sub-clinical post weaning colibacillosis
- Acute phase proteins as markers for sub-clinical post weaning colibacillosis are sensitive to protein nutrition
- Longer term impacts on pig performance have been established
- Next generation sequencing has revealed significant shifts in microbiome characterization in especially small intestinal contents
- Next steps – towards weaner pig amino acid nutrition to satisfy essential amino acid requirements at minimal level of excess protein to optimise gut health

Refreshments & Networking



Dr Ivan Rychlik

Chicken Gut Microbiota – towards a new generation of probiotics in poultry

Dr Ivan Rychlik, Leader of Salmonella Research Group, [Veterinary Research Institute, Czech Republic](#)

Commercially produced chickens are hatched in clean environments without contact with adult hens. This means the transfer of gut microbiota from hen to chick is interrupted and must be replaced by other means. Ivan's presentation reveals the results of a study into the use of probiotics to colonise the microbiota and defend against salmonella.

- How commercial production compromises the gut microbiota in poultry – and how probiotics can redress the balance
- The link between the poultry microbiota and salmonella resistance
- Study results – a safe route to a 1,000-fold improvement in salmonella resistance
- The challenge - implementing our findings industry wide





Francesc Molist

Relationship between particle size of the diet and gut health in swine

Francesc Molist, Manager Research & Development, [Schothorst Feed Research](#)

Fine grinding is commonly used to reduce particle size to increase animal performance. A reduced particle size will increase nutrient digestibility by increasing the relative surface area of dietary particles exposed to enzymatic digestion in the gastrointestinal tract, thereby increasing nutrient digestion and absorption. On the other hand the particle size of the diet will also impact the rate and microbial composition in the gut. Therefore if we want to improve the performance of the animals and have a positive impact on their health and welfare we need to better understand what is the optimum particle size that we want to have in swine diets.

- Feed processing improves nutrient digestibility in swine
- Feed processing will affect nutrient and physicochemical characteristics of diets
- Feed structure will have a positive effect on the stomach and gut health in swine
- We need more studies in order to understand how to monitor the effects of feed processing on the performance, health and welfare in swine



Dr Ellen van Eerden

Interactions between immune system, nutrition and genetics in broilers

Dr Ellen van Eerden, Researcher Poultry Nutrition, [Schothorst Feed Research](#)

Nutrition and the immune system are inseparably linked to each other. Until now most research in these areas has been carried out with fast growing broiler breeds, but with the increasing presence of slow growing breeds on the market, there is a need for a better understanding of the interrelationship between nutrition and the immune system in this type of bird. Ellen's presentation will show results from a recent project and summarize current knowledge on this topic.

- Different nutritional requirements for slow growing broilers
- Different immune coping strategies between efficient and non-efficient pullets could also apply to fast and slow growing broilers
- Combination of feeding and vaccination strategies can have a synergistic effect on performance and health status

Closing remarks

Networking reception at the Sky Lounge



DAY 2 - WEDNESDAY 4TH MARCH 2020

09:00 **Welcome back**
Jane Byrne, Senior Editor, [FeedNavigator](#)



Dr Elijah Kiarie

ω -3 fatty acids and yeast derivatives for poultry - improving growth, productivity and welfare

Dr Elijah Kiarie, Assistant Professor, [University of Guelph, Canada](#)

Despite advances in genetics and management, metabolic and skeletal disorders are common among commercial poultry, leading to high mortality rates and large financial losses for producers. The situation is further exacerbated by increasing restrictions on antibiotic growth promoters used to make birds resilient to intensive production processes. Elijah's presentation will reveal the findings of new research into perinatal nutrition and the lifelong impact of feeding breeding poultry and their progeny with functional dietary components, namely ω -3 fatty acids (FA) and yeast derivatives.

- The critical importance of the embryo to post-hatch interface for physical development, productivity and welfare
- The impact of ω -3 FA on skeletal development in embryo to early chick and point of lay
- Transgenerational impact of ω -3 FA on growth performance and breast yield in broiler chickens
- How feeding breeding broilers with yeast bioactives impacts hatching egg yolk antibodies concentration, progeny growth performance and resistance to coccidiosis.



Anja Varmløse
Strathe

Can we increase the birth weight of piglets through feeding in early gestation in sows with high litter sizes?

Anja Varmløse Strathe, Assistant professor, [University of Copenhagen, Denmark](#)

The increased litter size in sows has resulted in the birth of small and/or underdeveloped piglets, which have a higher mortality and slower growth rate. It takes a lot of work for the farmers to make these smaller piglets survive and grow. Anja leads a project Feed4Life, where the focus is to gain knowledge on foetal development in hyper-prolific sows and to investigate if different feeding interventions in early to mid-gestation can affect foetal development and increase the birth weight of piglets. She will provide you with the latest results of trials with gestating sows.

- Foetal development in hyperprolific sows- variation within the litter can be detected very early in gestation
- Characterisation of small versus large foetuses- large differences in placenta and organ sizes
- Impact of feeding additives in gestational diets from early to mid-gestation – how does this affect foetal development and birth characteristics of piglets?



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David Speller

The importance of Optimal Conditions for Early Feed Intake in Broiler Chicks

David Speller, Owner, **Applied Group**

Young broiler chicks are very responsive to the conditions around them. Within minutes of conditions changing we see dramatic changes in the activity of chicks. We teach our farm staff to observe the chicks and set the conditions in the farm according to what the chicks are saying they want. To optimise the rearing conditions a farmer must consider many factors. We say on the farms that a good flock of broilers is like a good firework, you seem to intervene for only a very short but decisive period at the start, like lighting the firework, and then you watch as they grow and end as a fantastic performing flock.

- Rearing conditions are key to ensure optimal utilisation of feed for a young broiler chick
- Young chicks are dependent on the farm and the farmer for their wellbeing, comfort and health
- Different equipment, different farms, different genetics, may all require different optimal conditions
- We must embrace nutritional and technological developments into the farm for optimal feeding of young chick

Refreshments & networking



Dr Mai Anh Ton Nu

Protein Digestion Kinetics and Young Animal Nutrition

Dr Mai Anh Ton Nu, R&D Manager, **Agilia**

The rate of protein digestion along the digestive tract influences the efficiency of protein and amino acids utilization in the animal - for body protein synthesis, as energy source, or captured and fermented by the intestinal microbiota. Young, developing animals require highly efficient protein sources to supporting the development of the gastro-intestinal tract and overall performance. Moreover, young animals are more sensitive to the by-products of protein fermentation, like biogenic amines and ammonia, which can negatively impact their gut function and health, and consequently their immediate and long-term performances.

Mai Anh is leading a project studying nutrient digestion kinetic profile of feed ingredients and how this knowledge can be used to optimize diet formulation in order to fully achieve their growth potential. Mai Anh will provide some first insights, covering:

- The concept of protein digestion kinetics and its importance to young animal
- The use of in vitro method to evaluate the protein digestion kinetic profile of feed ingredients
- The effect of processing on protein digestion kinetic of protein ingredients



Emily Burton

Optimising the interaction between diet and digestive physiology in young birds

Dr Emily Burton, Associate Professor in Sustainable Food Production, **Nottingham Trent University**

The modern broiler reaches slaughter weight at a physiologically younger age so the embryonic period and first week post hatching represent 45% of the life span of the bird. Early feed intake post hatch increases the relative growth of internal organs and early development of the upper sections of gastro-intestinal tract, contributing towards optimal feed digestion and utilisation in older birds. The use of pre-starter diets may be an important strategy for achieving flock uniformity, enhancing growth performance and improving liveability at the end of the productive cycle.

- Early feeding of any diet (even non-nutritional) enhances chick growth by stimulating intestinal motility and development
- Optimal particle size for pre-starter feed differs from later life but there may not be a long term effect of feed form
- Replacing partial replacement of soya bean meal in pre-starter diets with a more digestible protein such as fishmeal, maize gluten meal or potato protein may have performance benefits
- Gastric pH young birds profoundly changes in the immediate post-hatch period, indicating a targeted, strategic approach to exogenous enzyme development could optimise enzyme use in this period

DAY 2 - WEDNESDAY 4TH MARCH 2020

	Speed networking Grow your network with a series of four-minute meetings with your fellow delegates. Introduce yourself to a new contact every time you hear the signal and find out if you've got mutual interests that would make a subsequent, more in-depth meeting worthwhile.
	Roundtable lunches – discuss the issues that matter most to you Tables will be hosted by an expert from industry or academia who will lead an informal discussion on an industry hot topic. Join the table that suits you best, subject to availability.
	Dessert and coffee
 Vivi Aarestrup Moustsen	Maybe it takes more than optimal nutrition to become a champion? Vivi Aarestrup Moustsen , Chief Scientist, SEGES Danish Pig Research Centre Sows are high performing athletes. We expect the sows to be agile, give birth to large viable litters, produce a lot of milk, be healthy and to do so in consecutive parities. However, for the sows to do this we need to understand both the behaviour and the physical requirements of sows and piglets and how the caretakers can ensure optimal daily conditions for the pigs. It's important in the design of production equipment to know the dimensions of the pigs expected to perform in the facilities. We've measured 400 Danish cross-bred sows and the position of their teats and video analysed a subsample of sows to learn how much space they need in addition to standing up and lying down. We've also measured dimensions of 100 suckling piglets to see how they fit along the udder. <ul style="list-style-type: none">• Pigs are top-athletes and if given the right conditions, sows are highly-prolific and nurse their piglets• Healthy and highly productive pigs are beneficial for farmers' economy and are much more motivating to be a caretaker for Panel Discussion: Protein Promise for Piglets <i>Chair:</i> Jane Byrne , Senior Editor, FeedNavigator <i>Panellists:</i> Thomas Sprangers , Researcher, VIVES University of Applied Sciences Ana Cruz , Industrial PhD, Felleskjøpet Fôrutvikling Roger Davin , Researcher Monogastric Nutrition, Schothorst Feed Research  Jane Byrne  Thomas Sprangers  Ana Cruz  Roger Davin
16:00	Closing remarks



NETWORKING

The **Young Animal Nutrition Summit 2020** will offer you the chance to network with the best in the industry whilst learning about the hottest topics in the current market. With numerous networking sessions, an evening drinks reception and a roundtable lunch discussion, you'll have ample opportunities to network and make those all-important connections.

Evening Reception

Network with fellow delegates, over drinks and canapés, at the SkyLounge in Amsterdam. Enjoy the breathtaking views of Amsterdam whilst reflecting on the day's discussions and discoveries. Cement those all-important connections that you have made throughout the day and relax with a drink or two.



Roundtable Lunch Discussion

On day two, join a roundtable lunch discussion and take part in an informal discussion on new innovative ideas within the industry. Discussions will be led by one of our excellent expert speakers.



Refreshment breaks

Enjoy tea, coffee and snacks throughout the day in our dedicated networking refreshment breaks. The breaks are a great opportunity to take a breather from the detailed conference sessions and refuel for the upcoming sessions.



SECURE YOUR PLACE

Your ticket for the Young Animal Nutrition Summit 2020 includes:

- Access to all the presentations and panels
- Roundtable lunch discussion on day two
- Opportunity to join all of the networking sessions
- Evening Networking reception at the SkyLounge
- Refreshment breaks
- ...and more!



Bring your team and maximise your learning. Group bookings of 2 or more are eligible for a discount!

Ask us for more info.

Industry delegate rate: €900 (+BTW)

Academic delegate rate: €500 (+BTW)

Register online at www.feednavigatorsummit.com/register

Got a question about registration?

Email us on feednavigatorsummit@wrbm.com



VENUE

The Young Animal Nutrition Summit will take place at the Amsterdam Marriott Hotel. Situated across from the Leidseplein, The Amsterdam Marriott Hotel is moments from Amsterdam city centre's most celebrated shopping, dining and entertainment destinations with excellent transport links close by. The hotel is close to key cultural venues such as the Anne Frank House, the Van Gogh Museum and Vondelpark.

Delegates can benefit from a discounted rate at the hotel. Discounted rooms are first come first served.

For more information and to book accommodation, visit:

www.feednavigatorsummit.com/venue/



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Agilia's unique purpose is to develop and supply vital new ingredients, that will help solve the global protein challenge whilst also supporting the industry ambition to improve overall animal health and performance. The company is part of the British AB Agri Ltd., which is leading worldwide in supply and development of the Agricultural Industry.

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With more than a century of experience, Darling Ingredients produces and markets sustainable natural ingredients from edible and inedible bio-nutrients. With a variety of processing operations in over 200 locations on five continents, we create a wide range of products and customized specialty solutions for customers in many industries. Marketed under Darling Ingredients, Sonac is one of the operating companies that is a trusted partner by manufacturers worldwide and delivers quality solutions with reliable and sustainable ingredients for especially the food, pet food and feed industries. As to the feed industry, we process raw materials of animal origin into valuable and essential fats, proteins, minerals and specialty ingredients for applications also including pig and poultry feeds. For piglets we provide for example functional proteins to help to improve their gut health. For poultry feeds, we offer highly digestible proteins, such as hemoglobin powder and special products like plasma, that can improve the gut health of newly young broilers. At the FeedNavigator Summit 2020: Young Animal Nutrition, our specialists would like to share our latest insights into effective methods to reduce antibiotics and create robust young animals.

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Hamlet Protein's activities are directed towards demanding applications for young animal feeding. The combination of an efficient reduction of the anti-nutritional factors to a safe level, nutritious proteins and special flavor is unique, offering their customers products that will efficiently increase animal health and productivity. Carefully developed compositions of their products reflect special requirements of young animals. Their products comprise a unique combination of desired properties in young animal feed. An emphasis on the quality of the feed at an early stage of life is proven to be a sound investment in strong and uniform growth of young animals.

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More than 30 years of experience together with the leadership at R & D, whose staff has published more than 500 peer-reviewed journal articles, abstracts, proceedings and articles, has made of APC a reliable Functional Proteins supplier. In addition, APC's products are manufactured under severe quality controls and safety regulations.

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Founded in 1991, the company is headquartered in the United States with offices in over 30 countries worldwide.

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Canadian Bio-Systems Inc. is an innovation-focused company that researches, develops and manufactures a wide range of products used in feed, food, industrial and environmental applications.

The company was established in 1984 and is headquartered in Calgary, Alberta, Canada, with manufacturing and warehouse locations east and west, serving customers internationally.

All of the company's products are based on a strong foundation of research and development. Each is designed to deliver specific, clear benefits that represent safe, natural ways to improved performance, profitability and environmental stewardship.

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FeedNavigator publishes the feed industry stories that matter. It covers legislative developments, competition probes, R&D innovation, scientific breakthroughs, and feed manufacturing company strategy.

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