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The World Animal Science News

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EDITORIAL

The Centre for Meat Safety and Quality at Colorado State University will host the next “**International Summit: The Societal Role of Meat & Livestock**” meeting in Denver, Colorado, USA on October 30-31, 2024. Denver — The Mile High City — is a hub for livestock and meat production in the U.S. Our meeting will be hosted at [CSU Spur](#) –A Place for Research and Education—which is a brand-new complex. Facilities were designed to co-exist with the National Western Stock Show Centre, where rural heritage meets urban sophistication. The Spur Campus was built to help address the urban/rural divide.

In a previous editorial I talked about the first such meeting which occurred in October 2022 and was hosted by Teagasc in Dublin, Ireland. You can see what their meeting was about [here](#). The Dublin meeting also resulted in an [entire volume of Animal Frontiers](#) publications last April and, a “[Dublin Declaration of Scientists](#)” . The international Dublin Declaration has now been signed by over 1,170 scientists world-wide. As a consequence, the meeting has caught the eye of policymakers. The meeting will encourage open, frank, and transparent dialogue among an international audience about what the science says about the role of livestock and meat (including poultry) production in a global society.

Participants at the “**International Summit: The Societal Role of Meat & Livestock**” meeting were by invitation only and were limited to around 200. Registrations have now closed. As with the meeting in Ireland the though provoking papers will be published in an issue of Animal Frontiers to come out early in the New Year. I will provide summary of the key papers in the next WAAP editorial.

Frank Dunshea
President WAAP

From WAAP Members

**American Dairy Science Association®
(ADSA®)**

ADSA News



The American Dairy Science Association (ADSA) is excited to announce its prestigious awards ceremony, which will be held during the 2025 ADSA Annual Meeting from June 22-25, 2025, at the Kentucky International Convention Centre in Louisville, Kentucky.

This event will honour leading individuals in the field of dairy science, recognising achievements across multiple categories, including research, education, and industry contributions. Awards such as the ADSA Distinguished Service Award, the ADSA Award of Honor, and several scholarships for early-career researchers and students will be presented during the opening session, with additional awards celebrated throughout the meeting, particularly during the main awards ceremony.

The ADSA Annual Meeting is a must-attend for professionals and students alike, offering numerous opportunities to celebrate excellence in dairy science, network with peers, and engage with groundbreaking research. For further details on nominations and how to participate, please visit the [ADSA website](#).

**American Society of Animal Science
(ASAS)**

ASAS News



The American Society of Animal Science (ASAS) is set to host a series of significant meetings over the coming years, continuing its tradition of advancing the field of animal science through collaboration and knowledge exchange.

The following year, from July 6 to 10, 2025, the Diplomat Beach Resort in Hollywood, Florida, will host the 2025 ASAS-CSAS Annual Meeting. Participants will have the opportunity to engage in discussions around sustainable animal production and the latest technological advances in the field. With its location just steps from the beach, this conference promises to combine professional development with a relaxing, sun-soaked atmosphere.

Meanwhile, regional meetings like the Midwestern Section Meeting, scheduled for March 10 to 12, 2025, in Des Moines, Iowa, will focus on the challenges and opportunities facing the livestock industry in the Midwest. This event serves as an important platform for both seasoned professionals and students to present their research and network with peers. In addition, the Southern and Western Sections Joint Meeting will take place from April 5 to 8, 2025, in Arlington, Texas, bringing together researchers from the southern and western regions of the United States. The discussions will span topics like animal health, ruminant nutrition, and the environmental challenges shaping the future of animal production in these regions.

**European Federation of Animal Science
(EAAP)**

EAAP News



2024 NOVUS Award winner

The NOVUS award has the goal to recognize the excellence in dairy research and innovation carried

out by young scientists in the very different fields of application. The award is given by EAAP and ADSA every year and the winner is supported by NOVUS International to participate to the following year ADSA Annual Meeting, for the EAAP winner, and vice versa for the ADSA winner. In an effort to extend inclusivity, EAAP, for the past three years, has expanded the eligibility criteria, inviting all young researchers presenting scholarly papers on dairy-related subjects to partake in the selection process. This year witnessed an impressive submission of 137 candidatures, meticulously curated down to 15 by the respective Study Commissions, which were then subjected to further scrutiny by a respected panel in Florence during the 75th EAAP Annual Meeting. It brings EAAP immense pride to announce that the recipient of the 2024 NOVUS Award is Martin Julius Gote (Belgium). Martin's commendable contributions will be formally recognised during the Welcome and Award Ceremony next year, where NOVUS International will again offer their resolute support, enabling him to participate in the 2025 ADSA Annual Gathering.



Registration and Abstract Submission Now Open for EAAP Workshop on Insect Genetic Improvement in Athens

EAAP is pleased to announce that registration and abstract submission are now open for the upcoming

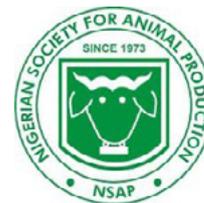
workshop titled "Insect Genetic IMProvement, IMPLementation, IMPact." This workshop will be held in Athens, Greece, from 29th to 31st January 2024. This event will focus on the latest advances and discussions surrounding the genetic improvement of insects, their implementation in various sectors, and their overall impact. It promises to bring together leading experts, researchers, and industry professionals to share knowledge and innovations in this emerging field.

Participants interested in attending or presenting their research are encouraged to submit their abstracts and secure their spots soon. For further details and to access the registration and submission platform, visit the [official workshop website](#).

Don't miss this exciting opportunity to be part of a groundbreaking event in insect genetics!

Nigerian Society for Animal Production (NSAP)

NSAP News



50th Annual Conference of the Nigerian Society for Animal Production (NSAP-FULAFIA, 2025)

The Nigerian Society for Animal Production (NSAP) in collaboration with Federal University of Lafia will hold her 50th Annual Conference with the theme "Exploring Transformations in Animal Agriculture for Food Security, Wealth Creation and Economic Growth from March 16th to 20th, 2025 at Federal University of Lafia, Lafia, North-Central Nigeria. Detailed information on the conference is available on the [website](#) or by email to: secretary@nsap.org.ng. Manuscripts for the

conference should be sent to: nsap.fulafia2025@gmail.com

Conferment of fellows of NSAP

Two distinguished members of the society shall be inaugurated as Fellows come NSAP-FULafia 2025. The upcoming Fellow designates are Professor Olugbenga A. Ogunwole of the University of Ibadan and Professor Mohammed Kabir of Ahmadu Bello University.

NSAP Membership

NSAP is currently accepting new membership applications. Prospective members can contact secretary@nsap.org.ng for membership details or [visit the website](#) for the membership forms.

Nigerian Journal of Animal Production (NJAP)

NJAP is published by the Nigerian Society for Animal Production. The journal is currently receiving original manuscripts for publication. For more details [visit the website](#).

NSAP Awards

The Nigerian Society for Animal Production has instituted two awards, the NSAP Young Scientist Award and the best M.Sc. student in Animal Breeding and Genetics Award sponsored by Prof. D.J.U. Kalla and Prof. M. Kabir respectively. For enquiries email to: nsapyoungscientistaward@gmail.com

News from Science

Effect of different genetic backgrounds on rumen microbiota and serum metabolic phenotypes in beef cattle

This study examined how different genetic backgrounds in beef cattle influence metabolic phenotypes, rumen microbiota diversity, and composition. Nine cattle were divided into three groups: Chinese Simmental (S group), Simmental×Chinese Holstein (SH group), and

Simmental×Mongolian (SM group). Serum biochemical indicators were measured using ELISA, and significant differences in short-chain fatty acids (SCFAs) were observed between groups. The S group had notably higher propionic acid levels than the SH and SM groups, while both S and SM groups had higher acetic-to-propionic (A/P) ratios than the SH group. Analysis of rumen microbiota using 16S rRNA sequencing revealed similar microbial compositions across the groups, though distinct bacteria were enriched in each: f_Bacteroidales_RF16_group in SH, and Treponema and Spirochaetia in SM. These differences suggest variations in starch, protein, and cellulolytic abilities. Spearman correlation analysis highlighted significant correlations between rumen bacteria and serum biochemical indices, underscoring the role of microbiota in metabolic traits. [Read the full article on Nature.](#)



Effects of heat stress mitigation strategies on feedlot cattle performance, environmental, and economic outcomes in a hot climate

Rising global temperatures pose significant challenges for the beef industry, particularly in feedlots, where heat stress negatively impacts both animal welfare and profitability. Shade structures are a practical solution to mitigate heat stress. An experiment involving 1,560 Bos indicus bulls was conducted to assess the effects of different shade types on cattle growth, environmental impact, and economic outcomes. The study compared four

shade structures: conventional (SC), double conventional (DS), dome without fans (DSA), and dome with fans (DCA). Bulls housed under DCA exhibited significantly heavier final body weights and improved feed efficiency compared to those under SC and DS. Both DCA and DSA reduced greenhouse gas emissions by 3–8%, while DCA proved the most profitable, increasing returns by \$29.66 per animal. This research highlights that advanced shade structures not only enhance cattle growth and feedlot profitability but also lessen the environmental footprint of beef production. [Read the full article on Animal.](#)

Deworming programs for horses in the United States: past, present, and future

Developing effective deworming programs for horse farms has become increasingly complex due to growing concerns over anthelmintic resistance (AR) in internal parasites. The traditional recommendation of deworming horses every two months is now considered outdated, as it is believed to accelerate AR, reducing the efficacy of common deworming drugs. Historically, the introduction of equine paste dewormers in the 20th century significantly improved equine health. However, this success has been overshadowed by rising reports of AR. Currently, awareness of AR is prompting horse owners to seek veterinary advice more frequently regarding deworming strategies. Looking ahead, advancements in genomics, gene editing, artificial intelligence, and data analytics offer hope for the development of novel anthelmintic drugs or alternative parasite control methods, potentially revolutionising the field and addressing the growing resistance problem. [Read the full article on Animal Frontiers.](#)



Exploring definitions of daily enteric methane emission phenotypes for genetic evaluations using a population of indoor-fed multi-breed growing cattle with feed intake data

This study focuses on genetic selection as a potential method to reduce enteric methane (CH₄) emissions in cattle, a key step towards sustainable livestock farming. Researchers aimed to derive genetic parameters for

CH₄, carbon dioxide (CO₂), and dry matter intake (DMI), and examine their genetic correlations, addressing the limited data on methane emissions in beef cattle. Using data from 1,508 multi-breed cattle monitored by GreenFeed systems, nine CH₄ and CO₂ traits were defined over varying time periods. Heritability estimates for CH₄ and CO₂ increased with longer averaging periods, indicating potential for genetic selection. Notably, CH₄ was moderately to strongly correlated with DMI. Estimated breeding values (EBVs) for CH₄ were validated through phenotypic performance and the Legarra and Reverter method. Though validation results showed some bias, the findings suggest that CH₄ is moderately heritable, making genetic selection for lower methane emissions a feasible strategy. [Read the full article on Journal of Animal Science.](#)

News from International Organizations

Upturn for global poultry market, but tougher trade conditions remain

Global poultry markets are moving towards more 'normal' market conditions following 4 years of highly disruptive conditions. A rise in poultry meat consumption of between 1.5% and 2%, coupled with disciplined supply growth, is boosting the sector with consumers having more spending power, plus lower feed prices. [Read the full article on PoultryWorld.](#)



Eurasia Economic Union adopts new rules on antibiotics

New maximum permissible levels of residual veterinary drugs in livestock products have been approved in the Eurasia Economic Union (EEU), a bloc of 5 post-Soviet countries. The rules are, primarily, called to protect consumers from feed antibiotics, though their non-therapeutic use remains permitted despite growing fears

of superbug. Eurasia Economic Commission, the EEU governing body, has imposed caps on the residual of 75 veterinary drugs commonly used in the livestock industry. [Read the full article on AllAboutFeed.](#)



Job Offers

Post-Doctoral Fellow au University of Guelph, Canada

The Centre for Nutrition Modelling (CNM) within the Animal Biosciences Department at the University of Guelph (Guelph, ON), in partnership with the Animal Nutrition and Environment Modelling Laboratory (ANEMAL) lab at UC Davis, seeks PDF applicants for the project entitled: 'Modelling the impact of feeding strategies and genetics using a life cycle assessment approach'. For more information [read the job vacancy.](#)

PhD position at Wageningen University, The Netherlands

A PhD position in Chicken natural killer cells and avian influenza virus at [Wageningen University](#). A MSc degree in biology, animal sciences, biomedical sciences or a related discipline is required. **Deadline 28 October 2024.** For more information [read the job vacancy.](#)

PhD position at Wageningen University, The Netherlands

The following three positions are available at [IRTA](#):

I. [Researcher in Dairy Nutrition and Management for the Ruminant Production Program](#). Ph.D. in Agricultural Engineering, Veterinary Science, Animal Science or similar related to dairy nutrition and management applied to the ruminant nutrition and management is required.

2. Postdoctoral Researcher in Dairy Nutrition and Management for the Ruminant Production Program. Ph.D. in Agricultural Engineering, Veterinary Science, Animal Science or similar specialized in dairy cattle. - Postdoctoral research experience (desirable international).

3. Postdoctoral Researcher in Dairy Beef Nutrition for the Ruminant Production Program. Ph.D. in Agricultural Engineering, Veterinary Science, Animal Science or similar specialized in Beef or Dairy Beef cattle.

Deadline: **3 November 2024**.

Postdoc position at Aarhus University, Denmark

A Postdoc position in computer vision-based phenotyping of sow strength and lameness for genetic improvement of sow longevity is available at Aarhus University's Centre for Quantitative Genetics and Genomics. A PhD in data science, precision livestock farming, computer vision, or a closely related field is required. Deadline **5 November 2024**. For more information read the job vacancy.

Scientific collaborator at Federal Food Safety and Veterinary Office, Switzerland

The Federal Food Safety and Veterinary Office is looking for a scientific collaborator for the farm-animal welfare group. If you possess relevant research experience, are interested in the assessment and authorisation of animal housing systems and are eager to put your knowledge into practice within the specialist cantonal offices for animal welfare, then you could be successful candidate. For more information read the job vacancy available in English, French, German and Italian.

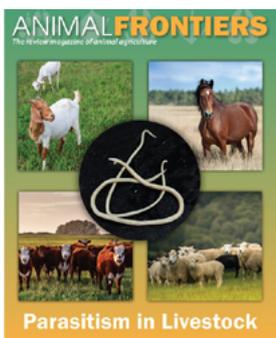
Publications

1. Animal Consortium (EAAP, INRAE, BSAS) – Elsevier

Animal: Special Issue “Selected keynote lectures of the 74th Annual Meeting of the European Federation of Animal Science (Lyon, France)”, Volume 18, Supplement 2, September 2024.

2. Animal Frontiers Consortium (EAAP, ASAS, AMSA, WAAP) - Oxford Academic

Animal Frontiers, Volume 14, Issue 5, October 2024



3. New technical articles have been recently published on Engormix:

I. “Boosting sustainable dairy farming through improved feed efficiency and probiotics”

II. “Impact of sow feeding management on reproduction and lactation”

III. “Understanding Coccidiosis: A Threat to Livestock Health”

IV. “The effect of Adhatoda vasica as an herbal supplement on the performance, nutrient digestibility, and blood profile of weaned pigs”

Other news

Antibiotic-free pork production: perspective reality or challenging chimera – Part 2

On June 13th, the AVANT project organized a workshop in Heraklion, Crete. This hybrid AVANT workshop brought together around 90 participants to discuss the challenges and market potential of [antibiotic-free pork production](#). Prof. Luca Gardabassi, the coordinator of AVANT, led the workshop, providing an update on the project's progress as it enters its fourth year. He highlighted two key interventions chosen by AVANT based on pre-clinical studies and regulatory requirements: [Faecal filtrate transplantation \(FFT\)](#) and [Fibre-rich diet based on alfa-alfa](#). [Read the full article here](#).



World without cows: what could the future hold?

Caitríona Morrissey attended the European premiere of a new documentary “World without cows” created by animal nutrition company Alltech. The documentary will be soon released. [Read the full article here](#).

Meetings and Conferences

WAAP invites you to check the validity of the dates for every single event published below and in the Calendar of the website, due to the state of sanitary emergency that World is currently dealing with.

Event	Date	Location	Information
International Summit: The Societal Role of Meat & Livestock	30 -31 October 2024	Denver, Colorado, USA	website
Symposium on Gut Health in Production of Food Animals	10 – 13 November 2024	St. Louis, Missouri, USA	website
Pig Research Summit 2024 – Sustainable Pig Feed for the Future	20 – 21 November 2024	Copenhagen, Denmark	website
Livestock horizons beyond food production	3 December 2024	London, United Kingdom	website
1 st EAAP Insects Workshop	29 – 31 January 2025	Athens, Greece	website
Midwestern Section Meeting	10 – 12 March 2025	Des Moines, Iowa, USA	website
50 th Annual Conference of the Nigerian Society for Animal Production	16 – 20 March 2025	Lafia, Nigeria	website
Southern and Western Sections Joint Meeting	5 – 8 April 2025	Arlington, Texas, USA	website
BSAS 2025 Supporting livestock's role in a global society	7 – 10 April 2025	Galway, Ireland	website
3 rd EAAP Regional Meeting	9 -11 April 2025	Krakow, Poland	website
1st EAAP Companion Animals Workshop	14 – 16 May 2025	Milan, Italy	website
2025 ADSA Annual Meeting	22 – 25 June 2025	Louisville, Kentucky, USA	website
2025 ASAS-CSAS Annual Meeting	6 – 10 July 2025	Florida, USA	website

More conferences and workshops [are available on EAAP website.](#)

The **World Animal Science News** is the Official WAAP Newsletter. This interesting update about activities of the global animal science community presents information on leading research institutions in the entire world and also informs on developments in the industry sector related to animal science and production. The Newsletter is sent to all WAAP member organizations and to their associates. You are all invited to submit information for the newsletter. Please send information, news, text, photos and logo to waap@waap.it.

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