WORLD ASSOCIATION for ANIMAL PRODUCTION

www.waap.it

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The World Animal Science News

Main Topics

- From WAAP members
- News from Science
- News from Industry
- Job Offers
- Publications
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EDITORIAL

Domestication is at the heart of our societies

The Magazine Animal Frontiers has published its last issue on Domestication, and this was done under the responsibility of WAAP. Animal Frontiers is a Gold Open Access journal where full articles are completely free to read without any fee and which has an Impact Factor of 5.3 which ranks it among the first 3 journals of its group! This issue on Animal Domestication is the first to be overseen by the World Association of Animal Production (WAAP). It marks the entry of our federation into the consortium that owns Animal Frontiers magazine. I would like to thank here the founding members of the consortium, in particular ASAS and EAAP, for welcoming us, thereby showing a common desire to give this magazine a more global dimension, and to contribute to maintaining the high quality of articles published there for more than ten years. This magazine aims to be an interface between the world of science and its users, whether they are decision-makers, teachers, technicians, students and even researchers in the animal sciences sector or in neighbouring sectors. WAAP, like the other members, will be responsible for one annual issue of the magazine. This is a sign that we are now confronted, as scientists interested and committed in animal sciences, with global problems that will have to be dealt with at the places where they arise through active collaboration not only between countries, but also between continents. We already define the next issue for 2022 and this will be on Camelids, a family of wild and domestic species spread all over the world and which provide many goods and things to the farmers, the consumers and the lands and countries where they are raised. The climate emergency is here, the collapse of biodiversity in a large part of the globe is now a reality, the pressure on natural environments has never been so strong and, at the same time, we must feed in a healthy way and economically accessible, an ever-growing population. Like other human activities, agriculture and in this context animal agriculture, contributes to a portion of these man-made disorders of the modern era.

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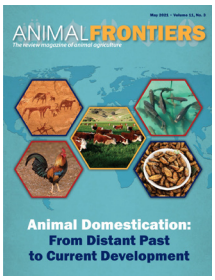
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Editorial (continues)

The latter is currently accused of all the evils in the matter of climate change and loss of biodiversity. However, animal agriculture can also be part of the solution by participating in the resolution of climate, biodiversity and food crises. How to produce better while reducing its carbon impact? How to develop farming systems that protect biodiversity? What diets based on animal products should be promoted for better health? We will not be able to answer these questions by remaining isolated in our respective countries. We need to exchange and exchange again, first the ideas and then the results of our research, leading finally to the innovations to enable us to answer the questions presented above. Although the current pandemic is not very favourable, it will also be necessary to encourage networking interactions among men and women who are involved in the animal sciences so that this community gets to know one another and thereby increases our collective scientific and technical effectiveness. Animal Frontiers is one of the tools that allows this flow of information and WAAP is the global network of Animal Science associations that wants to promote exchanges between its members. Current members of the Animal Frontiers Consortium understand and share this strategy and therefore we wish to thank them for giving us the opportunity to serve as a partner in this Consortium.

I am proud and happy that this first issue, which presents the history of animal domestications in the Neolithic and later, is the crucible of this rapprochement between Animal Frontiers and our federation.

Here you can find all the articles of the last issue of Animal Frontiers. Enjoy your reading!



Philippe Chemineau
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From WAAP Members

American Dairy Science Association® (ADSA®)

ADSA annual meeting

ADSA virtual conference was held from 11 to 14 July. Around 1000 abstracts were scheduled for presentation in oral and poster sessions. The meeting featured 23 Symposia during the meeting. Additionally, six additional webinars later in the fall are planned. Two All-Day Workshops were held: the Nutrition Models Workshop and the Mixed Models Workshop.

Examples of some of symposia:

Milk Proteins and Enzymes: Opportunities to Create New Products with Mixed Dairy and Plant Proteins
EAAP Exchange Symposium: Limits in Production Growth on Level of Cow, Farm, and Industry
(the 1 1/2 day ADSA symposium end of August at EAAP Davos 2021 meeting will be Future of dairy cattle housing)
Animal Behavior and Well-Being Symposium: Translating Animal Welfare Science—Animal Experiences, Dairy Production Implications, and Societal Viewpoints
Breeding & Genetics: Crossbreeding
Reproduction Symposium: Prebreeding Predictors of Fertility

Some of Webinars planned this fall:

Dairy Foods Webinar: The Future of Probiotics
Equids Milk Production: Scientific Challenges and Perspectives
Forages and Pastures Symposium
Lactation Biology Webinar
Production, Management, and the Environment: Advances in Enteric Methane Mitigation in Dairy Cattle - The Last Decade and Future Prospects

More information about the success of meeting will be reported later.

Journal of Dairy Science®

It is a pleasure to report that the Journal Impact Factor increased to 4.034 (according to new statistics released in Clarivate's Journal Citation Reports™).

40th ADSA Discover Conference on NASEM Nutrient Requirements of Dairy Cattle

Due to continued COVID-19 related gathering uncertainties coupled with delays with the NASEM publication the dates for this 40th ADSA Discover, NASEM Nutrient Requirements of Dairy Cattle, were changed to August 30-September 2, 2021. The conference is being offered as a hybrid program with both in-person and virtual participation options. Attendance options are still available. *Click here for "Online Registration and current options* or visit the website.

41st ADSA DISCOVER CONFERENCE℠ ON FOOD ANIMAL AGRICULTURE - Health Management of Calves: From Intrauterine Life to Successful Weaning

41ST ADSA DISCOVER CONFERENCE℠ ON FOOD ANIMAL AGRICULTURE - Health Management of Calves: From Intrauterine Life to Successful Weaning will be a hybrid conference with the in-person meeting being held October 25-28, 2021. at Eaglewood Resort & Spa in Itasca, IL. Registration options include in-person participation at the Eaglewood Resort & Spa, virtual participation, and a non-participation option which gives registrants access to the conference recordings. The pre-weaning period is critical for the growth and future productivity of replacement animals. However, dairy cattle producers and their veterinarians continue to face important, ongoing, and emerging challenges regarding calf management from intrauterine life to the time of weaning. This conference will explore the many changes in dairy calf management practices, and research conducted over the last decade.

Call for abstracts:
Participants and graduate students are invited to submit a short abstract that describes new and innovative research findings pertaining to one of the five conference topics. The call for abstracts is open on the DC41 website. Deadline to submit an abstract is **August 1, 2021**. Early Registration Deadline for reduced fee: September 24, 2021. For more information visit the website.

Canadian Society Animal Science (CSAS)

News from the Canadian Society of Animal Science

The Canadian Society of Animal Science (CSAS) is very glad to recognize the 2021 recipients of the major annual awards of our society, which recognize leading animal scientists who made a remarkable difference in their fields of expertise and contributed to the Canadian and international scientific community and to their animal production industries. There are even more reasons to celebrate these accomplished individuals this year, after all the hardships resulting from Covid-19 pandemic.

For more information on the CSAS activities visit our LinkedIn page.

Best wishes,

Flavio S. Schenkel (President), on behalf of the CSAS Executive

2021 Canadian Society of Animal Science Award Recipients

CANADIAN SOCIETY OF ANIMAL SCIENCE FELLOWSHIP

Dr. Leluo Guan, University of Alberta
Sponsored by Canadian Science Publishing

Dr. Guan has over 25 years of experience in functional genomics, molecular biology and microbial ecology. As a researcher at University of Alberta, she has led the development of a new area of research in functional genomics and host-microbial interactions in livestock. Her research aims at elucidating the regulatory mechanisms of economically important traits at the molecular level and to understand the biology underlying quality, production, health, food safety and welfare traits. In addition to 227 peer-reviewed publications, she has delivered more than 111 invited talks including 34 as keynote speaker at various locations throughout the world. Her work has clearly generated new discoveries and innovations that have contributed to the sustainability and competitiveness of the Canadian livestock sector.

TECHNICAL INNOVATION IN ENHANCING PRODUCTION OF SAFE AFFORDABLE FOOD

Dr. Eveline Ibeagha-Awemu, Agriculture and Agri-Food Canada
Sponsored by Semex Alliance

Dr. Eveline Ibeagha-Awemu has established national and international reputation for her research on dairy cow genomics and epigenomics for dairy health management and production. Her research supports the dairy industry and larger animal science community to develop strategies that contribute to the production of safe and affordable food for Canadians and internationally. Dr Ibeagha-Awemu is among pioneer scientists to characterize regulatory elements (miRNA and lncRNA) in the bovine genome and to create awareness of the important contributions of epigenetic factors to phenotypic outcomes in livestock health and production traits. Her intense research has contributed significantly to scientific innovation through 118 peer-reviewed journal articles and book chapters and 73 scientific conference communications, and numerous invited presentations to audiences in many countries.

EXCELLENCE IN NUTRITION AND MEAT SCIENCES

Dr. Anna Shoveller, University of Guelph
Sponsored by Trouw Nutrition

Dr. Anna Shoveller is currently an Associate Professor in the Department of Animal Biosciences, University of Guelph. The global focus of Shoveller's lab is optimizing nutrition across mammalian species for health and longevity without compromising the future of food chain. Dr. Shoveller often factors behaviour and quality of life into her nutrition and physiology studies. Shoveller is the past recipient of the American Society of Nutrition Peter Reed's Young Investigator Award (2009), The John G. Smale Award in Innovation from Procter & Gamble (2009), the American Society of Animal Science Jim Corbin Award in Companion Animal Biology (2018), and AFIA Best Friend of Pet Food (2020). She has published over 90 peer-reviewed papers, contributed to multiple book chapters, applied for multiple patents, and has gained over $3 million in less than 5 years from private industry and public funding agencies.

CANADIAN INDUSTRIES AWARD IN EXTENSION AND PUBLIC SERVICE

Dr. Ruurd Zijlstra, University of Alberta
Sponsored by Canadian Pork Council, Chicken Farmers of Canada,
Beef Cattle Research Council, and Dairy Farmers of Canada

Dr. Ruurd Zijlstra is a Professor of Swine Nutrition in the Department of Agricultural, Food and Nutritional Science at the University of Alberta. Believing in the importance of technology transfer, he has been an organizing committee member of the annual Banff Pork Seminar since 2005 and has been its Program Co-Chair since 2012. Dr. Zijlstra served as Co-Chair for the 2008 and 2011 Western Nutrition Conference that serves the feed industry, and as a committee member in 2004, 2005, and 2014. He believes that collaborative research benefits animal industries and has put that belief into action by co-leading Canadian swine nutrition research initiatives involving researchers in 4 or 5 provinces under the umbrella of Swine Innovation Porc for three subsequent funding rounds. From 2015 to 2020, he served as Chair of the Department and led initiatives to strengthen collaborations between the Department, Animal Industries and other industry sectors. These resulted in the creation of four industry-funded faculty positions focused on Animal and Crop Production. Dr. Zijlstra continues to enjoy teaching Swine and Companion Animal Nutrition at the University of Alberta.

YOUNG SCIENTIST AWARD

Dr. Anne Laarman, University of Alberta
Sponsored by the employees of Masterfeeds LLP

Dr Anne Laarman is an Assistant Professor of Dairy Nutrition & Physiology in the Department of Agricultural, Food and Nutritional Science at the University of Alberta. Dr Laarman joined the University of Alberta in 2019 after a 4-year stint as assistant professor of ruminant nutrition and metabolism at the University of Idaho and has secured over $3 million in funding. Dr Laarman's work studies the development and adaptation of the ruminant gut to dietary changes, focusing on nutrient absorption and gut health. Previous and current work includes: cellular mechanisms of immunoglobulin absorption in new-born calves, impact of weaning on stress and nutrient absorption in the calf gut, and using feed additives to lower immune response during transitions to highly fermentable diets in lactating dairy cows and finishing beef steers. Dr Laarman's research has yielded 20 publications and 40 conference abstracts. Dr Laarman also serves as the academic lead of the Dairy Research and Technology Centre at the University of Alberta.

European Federation of Animal Science (EAAP)

Program for 2021 EAAP Annual Meeting is ready!

The final program for Davos is ready. The program booklet with all information, mainly the scientific program, necessary to efficiently attend the meeting is available here. The 2021 EAAP Annual Meeting goes back to be on-site after last year virtual experience. And despite the troubles for the pandemic in Davos there will be a real on-site meeting with, up to date, more than 800 registered participants. The local Swiss organizers also made the efforts to render part of the sessions (more than 20) available to be attended virtually, for those who cannot travel. And today there are around 300 registrations for virtual participation.

News EAAP 2021 – about the Swiss evening

Due to covid, the Swiss evening 2021 will be a little different to other years. The local organizers decided to implement the Swiss evening on three different locations. All of these locations are very special in their way and we are sure, all of you will

have a great Swiss evening. We can only reveal so much here: One location is very modern with a very sportive touch, one location is in the middle of Davos but in the middle of nature as well and one location is up on the mountain and can only be reached by cablecar! Details to the locations and how the evening will be organized in detail, you will find on our homepage in the beginning of August and of course at the meeting itself. A very important detail for the Swiss evening, as well as for the whole EAAP-meeting in Davos is the climate: The Alpine climate can be very variable. Temperatures between 0°C and about 25°C are possible in Davos in August/ September. Normally the temperature will be about 20°C during the day, but quite cool in the evening and the morning. An umbrella might be useful as the August has the highest average rainfall. People, who live in Davos say, that Davos has a Microclimate, which is often different to the rest of the Canton of Grishon. But: They love it!
See you in Davos 😊



Picture: Davos-mki

A new service for EAAP individual members

EAAP is pleased to announce a new service offered to all its members. The Restricted Site, reserved only to EAAP members. Becoming members of EAAP is very simple and not expensive, please visit the dedicated website page here. The Restricted Site of EAAP is a tool to communicate with your animal scientists colleagues, to create and participate to scientific groups, to join blogs, etc. In the restricted site you will also find the Books of Abstracts of past 12 years, the 2020 and 2021 issues of the Newsletters, most of the presentations performed at last Annual Meeting, the videos of the EAAP webinars, and much more! For the EAAP individual member, this service is offered for **free**.
We suggest you to become familiar with this new tool so that you can learn the many different facets and related options. Please enter and make yourself comfortable with all available services. Get access to the restricted site, insert your mail of registration and the password that currently is not in the system. Therefore, click on "Lost your Password" to create your own password. If you will encounter any technical problems, please refer to us (support@eaap.org).

Read here to follow our recommendations for the best use of the platform.

We look forward to seeing you in the restricted area!

Latin American Association of Animal Production (ALPA)

ALPA news

1. The Latin American Association of Animal Production (ALPA) assumed the task of updating its bylaws and adapting them to new circumstances. For this reason, the Board of Directors and the Advisory Council together with some presidents of the National Associations took up the challenge. After seven months of consultations, they prepared a proposal, which was submitted for discussion to all active ALPA members.

2. ALPA through its thematic networks has been organizing conferences almost every week. The most relevant topics that have been focused on are: carbon mitigation in ruminants; grazing systems with an emphasis on silvopastoralism; animal welfare and Latin American Creoles.

3. The Latin American Archives of Animal Production journal, consistent with its priorities, has put into circulation 2 special issues on Latin American Creole livestock. The first Vol. 28 No. 3-4 (2020) and the second Vol. 29 No. 3-4 (2021) can be viewed here. A special issue on the carbon balance in Latin American livestock will be published in the near future.

4. The lectures presented at ALPA can be seen on our YouTube channel.

5. In ALPA we have also a profile on Instagram where we announce the events to be held.

Malaysian Society of Animal Production (MSAP)

40th Annual Conference 2021

The Malaysian Society of Animal Production announces the 2021 Annual Conference. The conference will be held on August 3rd-4th, the title of the Conference is "Livestock Industries Surviving the Covid-19 Pandemic". For more info, please visit the website or read the brochure.

South African Society of Animal Science (SASAS)

52nd SASAS Congress

The 52nd SASAS Congress will take place virtually from 10–12 August 2021 under the theme: "Communication of animal science: Is it reliable? Is it relevant? Is it responsible?". For mor information visit the website.

News from Science

AG2PI seed grant program

A major goal of the Agricultural Genome to Phenome Initiative (AG2PI) is to bring together agricultural scientists from multiple disciplines to work together in addressing shared challenges in genome-to-phenome research and related endeavours. As such, we have launched a seed grant program to foster first steps towards the development of community solutions to research needs and opportunities, as well as gaps in physical infrastructure and the data management pipeline. This second round of the AG2PI seed grant program aims to fund around twelve (12) awards across three levels of support: Emerging, Enabling and Establishing. Deadline for application: September 19th, 11:59pm CDT. Further details regarding the request for proposals, application and review can be found at the AG2PI website.

Counteracting the anti-nutritional effects of calcium



Calcium and phosphorous are 2 vital minerals for animal development and function. Animal feeds are often over-supplemented with calcium, which negatively affects the activity of phytase and the availability of phosphorous. This can be overcome by supplementing the right phytase. Read the full article on AllAboutFeed.

Yeast hydrolysate improves growth performance of Asian seabass

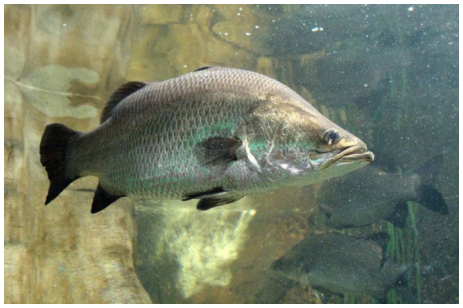


Photo: Mitch Ames, Licensed under Creative Commons Attribution

The low salinity conditions in which Asian seabass are typically grown enable them to grow fast but also presents a challenge. 2 trials in young seabass showed that yeast hydrolysate supplementation improved the growth performance of these fish. Read the full article on AllAboutFeed.

ILRI research generates evidence for better prevention and control of zoonotic diseases

World Zoonoses Day, celebrated annually on 6 July, commemorates the day in 1885 when Louis Pasteur successfully administered the first vaccine against a zoonotic disease. It is also a day to raise public awareness of the risk of zoonotic diseases and how to effectively prevent and control them. Read the full article on ILRI website.

News from Industry

Alltech ONE discusses how to feed the future

One of the topics addressed at the recent virtual Alltech ONE ideas conference was how to feed our livestock in the future. Several speakers discussed how to take into account the carbon footprint, sustainable feed sources and human and animal health, while producing enough food in the future. Read the full article on AllAboutFeed.



Pierre Lampron re-elected as Dairy Farmers of Canada President

Dairy farmers have re-elected Pierre Lampron to a third term as President of Dairy Farmers of Canada (DFC) at the organization's annual general meeting on July 14. Lampron is a sixth-generation dairy farmer and a uniting voice of dairy farmers across Canada. Read the full article on FeedandAdditive.

Job Offers

Professor at Laval University, Québec, Canada

The University of Laval is looking for a Professor in Beef Production. Position starting date: February 1st, 2022. Deadline: 15th September 2021. For more details and application read the job vacancy.

Post-doctoral Fellow at University of Alberta, Canada

A post-doctoral fellow (PDF) position is available at the Department of Agricultural, Food and Nutritional Science, University of Alberta. The long-term goal of this work is to develop and implement genomic tools to improve the environmental sustainability, feed efficiency and other economically relevant traits, of beef cattle while grazing during various phases of the Canadian beef cattle

production cycle. The target start date is January 1, 2022. For more information and application read the attached document.

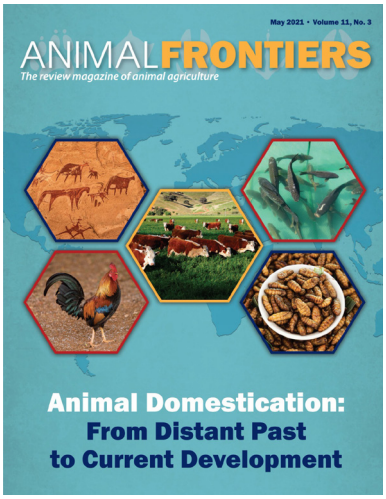
Publications

1.Elsevier

Animal:Volume 15- Issue 7 – July 2021
Article of the month: "Review: SARS-CoV-2 infection in farmed minks – an overview of current knowledge on occurrence, disease and epidemiology".

2.Oxford Academic

Animal Frontiers:Volume 11, Issue 3, May 2021



3.FAO

"Animal nutrition strategies and options to reduce the use of antimicrobials in animal production". 2021.

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

I. "Remedying Contact Dermatitis in Broiler Chickens with Novel Flooring Treatments"

II. "Development of Tenebrio molitor (Coleoptera: Tenebrionidae) on Poultry Litter-Based Diets: Effect on Chemical Composition of Larvae"

III. "Dialing Down Heat Stress Mechanically and Nutritionally"

IV. "Solutions focused on ruminant nutrition"

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.

Virtual meeting, August 3rd – 4th 2021

40th Annual Conference MSAP

The Malaysian Society of Animal Production announces the 2021 Annual Conference. The conference will be held on August 3rd-4th, the title of the Conference is "Livestock Industries Surviving the Covid-19 Pandemic". For more info, please visit the website or read the brochure.

Virtual meeting, August 10th – 12th 2021

52nd SASAS Congress

The 52nd SASAS Congress will take place virtually from 10–12 August 2021 under the theme: "Communication of animal science: Is it reliable? Is it relevant? Is it responsible?". For mor information visit the website.

August 30th – September 3rd 2021 in Davos, Switzerland

72nd EAAP Annual Meeting

EAAP is delighted to invite you to the 72nd Annual Meeting. It will be a hybrid event from August 30th to September 3rd, 2021 in Davos, the highest town in Europe situated in the alpine mountains of Switzerland and home to the World Economic Forum (WEF). Detailed information can be found on EAAP2021 website.

September 30th - October 1st 2021 in Balotesti, Romania

16th Edition of the International Symposium of Animal Biology and Nutrition

50 years of Research in Biology and Animal Nutrition at IBNA

The Symposium is organised every two years by the National Research and Development Institute for Animal Biology and Nutrition Balotești. The event will gather experts and scientists in Biology and Animal Nutrition, both European and worldwide, who will present their most recent research focusing on current scientific trends. More details on Symposium and registration can be found on the Symposium page and in the attached flyer.

October 21st – 22nd 2021, Paris, France

2nd Amino acid Academy Workshop

The 2nd Amino Acid Academy, organized by EAAP and METEX NØØVISTAGO will take place on the 21st and 22nd October 2021 in Paris, France. The location will be the Grand Amphitheatre of the National Museum of Natural History. Stay tuned for more information in the upcoming weeks and save the date!

July 3rd – 8th 2022, Rotterdam, The Netherlands

12th World Congress on Genetics Applied to Livestock Production (WCGALP)

We are excited that the 12th World Congress on Genetics Applied to Livestock Production will be held in the Netherlands, between July 3rd and July 8th, 2022! The impact of Covid is at the front of our minds. We are investigating all different options on how to best deal with Covid-19 and ensure a safe conference for all. We will make our final decision before the call for abstract opens. This way we can provide you with the best possible information. Our website contains more & more information, so please keep an eye on that. Because of the privacy laws, we would like to ask you to actively sign up for the mailing list, so we can keep you up to date. Please visit the website. Follow us on: LinkedIn and Twitter

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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