WORLD ASSOCIATION for ANIMAL PRODUCTION

Number 29 2022

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The World Animal Science News

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EDITORIAL

Discover the richness and variety of Camelids in the forthcoming August issue of Animal Frontiers (an Open Access Magazine, Vol.12 Issue 4, 2022)

The large family of Camelids is represented on several continents and has adapted to very diverse, generally difficult, bioclimatic situations, by differentiating very varied species. The Camelids of Asia are morphologically very different from those of South America, yet they share many characteristics in common with them. This global distribution of the Camelid family is very unique compared to other farm animals that have spread more recently on the planet.

Thus, the large camelids present in the Middle East, in the Indian subcontinent, in western China and in the Maghreb are particularly interesting animals due to their formidable adaptation to hot and dry climates which has made them effective in these arid regions and their global reputation for resilience. As the planet increasingly warms, they may also be interesting models of adaptation to climate change for the future.

The small camelids of South America have kept some common characteristics with their distant African and Indian cousins, such as ovulation caused by a factor initially identified in the scientific literature as a nerve growth factor. These South American populations of camelids are particularly adapted to the Andean mountains, whose climatic environment is very different from that of North Africa. They are particularly renown for the fineness of their fibre, of which there are few competitors in the world.

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Editorial (continues)

I would like to particularly thank the two Guest Editors of the last issue of Animal Frontiers (Vol 12 issue 4), Bernard Faye and Marcello Ratto, for having led the publication of this special issue on Camelids, placed under the responsibility of WAAP. You will find in this issue eleven summary articles (see below) solely on Camelids and which address various themes concerning them. It is a series of articles written by the most advanced researchers currently on these species that I also wish to thank here for their involvement. I am particularly proud that this special issue relies on the world's best Camelid specialists and that they come from several continents, from Latin America to China, via the Middle East and Europe; it is the vocation of WAAP to bring together so widely authors.

The large Middle Eastern Camelids have experienced an almost continuous expansion since their domestication 5-6000 years ago in the Arabian Peninsula, during population migrations, commercial exchanges and military conflicts. They are currently seeing a diversification of their production systems to meet a variety of demands ranging from milk production to sports competitions, as well as a geographic expansion, particularly in Europe and North Africa for tourism purposes.

Several teams are interested in the genetics of camelid populations, in particular by addressing the question of the genetic diversity of existing populations, their history since their distant domestication, but also the possibilities of improving the characteristics of their productions such as their fibre for small South American camelids. The recent sequencing of the genome of these species will make it possible to implement molecular genetic approaches more efficiently and thus to hope to progress more quickly by identifying the genes of interest. There is no doubt that the genetics of camelids, whether from South America or Africa-Asia, will experience rapid progress in the next decade.

One of the most original discoveries made by South American teams recently is that of the identification of the single factor responsible for ovulation caused by mating in females, ß-NGF. The story of this scientific discovery is very original in the field and beyond, thanks to the insight and persistence of its authors who do us the honour of writing one of the articles in this special issue of Animal Frontiers. As far as the induction of ovulation is concerned, Camelids are very particular and this discovery has been the subject of worldwide interest well beyond the researchers and practitioners working on this family. It could lead to a practical use in other species of major economic interest and it has had the great merit of drawing attention to the reproduction of Camelids which are also the subject of the development of biotechnologies for breeding, as in other farmed species.

If the Camelids are a particularly interesting family in terms of reproduction, they also have original characteristics in terms of their nutrition, an essential component that conditions their ability to adapt to the difficult conditions of the surrounding environment. In this field, the identification of new bacteria and new protozoa, hitherto unknown in ruminants, in the stomach of camelids, is unquestionably a considerable original advance and which could explain, at least in part, their ability to consume plants specific to the environments in which they evolve. The possible transfer of some of them to cattle during mixed grazing is also a particularly interesting result that you will be pleased to discover in the corresponding synthesis. Finally, camel milk and meat are the subject of two very interesting articles allowing a better understanding of the rational and scientific bases which make the original reputation of camel milk among those of ruminants and explain the qualities of camel meat, renowned in the countries where they are raised.

After the Animal Frontiers issue published in 2021 on Animal Domestication , this new volume of Animal Frontiers on Camelids is the second published under the responsibility of WAAP. These highly successful issues of Animal frontiers mark the definitive entry of WAAP into the publishing

consortium with our partners EAAP, ASAS, CSAS and AMSA. The dynamism of this journal for more than ten years has made it possible to increase its place in the ranking of animal production journals. Thus, Animal Frontiers has an impact factor of 6.7 this year, which places it second among the journals dealing with Agriculture, Dairy and Animal Science. It is an Open Access journal, without payment either by reader or by the author.

Take the opportunity to discover this issue on Camelids!
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From WAAP Members

American Dairy Science Association® (ADSA®)

ADSA News

ADSA® Science, education and service for the dairy industry

ADSA 2022 congress meeting in Kansas City, Missouri, from 19-22 June

The 2022 ADSA meeting featured 70 scientific sessions with more than 1,150 abstracts for oral and poster presentations, and 30 symposia, platform sessions and workshops that enabled in-depth discussion of the latest scientific findings and dairy sector issues on a global platform. It was held as a hybrid-meeting. There were 1600 participants from countries all around the globe, from which 300 participants online (some of the main presentations were indeed online).

Special attention during the meeting was devoted to the ADSA Strategic Plan. The ADSA board had prepared a 5-point strategic plan.



Past-President Paul Kindstedt (right), University of Vermont, and ADSA executive director Jerry Bowman (left) explaining the Strategic plan.

The five strategic focus areas are:

1. Create Partnerships throughout the Global Dairy Sector
2. Grow membership and Advance Dairy Science
3. Unite the Dairy Science Community
4. Champion Dairy Science Outcomes
5. Optimize Association Administration and Governance

During the public discussions, diversification and reaching-out to other societies and dairy groups was emphasized. As new ADSA president for the coming year was chosen Normand St-Pierre, Perdue AgriBusiness. 30 symposia were held. One joint symposium with EAAP dealt with Climate Care cattle farming. This symposium integrated the topics of economics, society's concerns, nitrogen use efficiency, and greenhouse gasses associated with milk production.



Jasmine Dillon, Colorado State University, Gail Carpenter, Iowa State University, Sven Koenig from Giessen University, Germany, and Peter Koerkamp of Wageningen University & Research, the Netherlands gave presentations (also Steve Eicker from Zoetis company presented)

Next ADSA meeting will be in Ottawa, Canada, Ontario, 25-28 June 2023.

Discovery conferences to come:

WHY CHEESE FROM MILK?

March 7-9, 2023
Northern Illinois University Naperville Conference Centre in Naperville, IL

Hosted by the American Dairy Science Association in collaboration with American Cheese Society, this Discover Conference will be offered as a hybrid program with both in-person and virtual participation options. Contact conference coordinator Molly Kelley or conference directory Larry Miller for more info.

CONFERENCE OBJECTIVE: Present some of the latest research on the nutritional and health promoting aspects of milk and cheese, including nutritional benefits of calcium, protein, fat and lactose in milk, and health- promoting benefits of components of the milkfat globule membrane, bioactive peptides, the positive effects of dairy components on the gastrointestinal (GI) microbiome, and the positive matrix effect of cheese as a delivery vehicle for essential nutrients, heath promoting (probiotic) compounds, and desirable microorganisms for the GI microbiome. Also included will be advances that address animal welfare practices, and climate change, in the context of present and future dairying and cheesemaking.

Journal of Dairy science

The impact factor for the Journal of Dairy science increased to 4.225. The quality of research published in JDS has remained very high, even as the journal continues to climb in the number of papers published each year.

American Society of Animal Science (ASAS)

ASAS News

ASAS Annual Meeting

Just few weeks ago the 2022 ASAS Annual Meeting was held in Oklahoma City (USA) with interesting scientific sessions and pleasant social events. During the conference ASAS recognized outstanding senior and young scientists with dedicated National Awards. Most National Awards recipient participated at the Oklahoma City meeting with remarkable presentations. ASAS wishes to remind that the 2023 Annual Meeting will be held in Albuquerque

(USA). The meeting will be hosted at Albuquerque Convention Centre, located in the heart of vibrant downtown Albuquerque. The 2023 ASAS Annual Meeting will be on July 16th to 20th. .

American Society of Animal Science (ASAS)

AHAT News

The 2022 Animal Husbandry Association of Thailand general meeting

The Animal Husbandry Association of Thailand will hold the 2022 annual general meeting on Wednesday 2nd August 2022 at the meeting room of Village 9 Civilization, Nong Nooch Tropical Botanical Garden, Pattaya. Those who plan to participate must inform the organization in advance because a seat will be reserved following the restrictions due to the epidemic situation of Covid-19. Detailed information is available here.

Chinese Society of Animal Husbandry and Veterinary Medicine (CAAV)

CAAV News



The 20th Academic Symposium of the Avian Disease Branch

With the rise of large-scale farming, China has become the world's largest producer of poultry. However, poultry diseases are still an important problem that plagues the healthy development of the poultry industry. Every year, various poultry diseases cause huge economic losses, and the situation of poultry disease prevention and control is still grim. At present, the occurrence of respiratory diseases, immunosuppressive diseases, intestinal diseases and various emerging diseases have brought great challenges to the prevention and control of poultry diseases in my country. In order to further improve the technical level of poultry disease prevention and control in China, summarize and display the new achievements, new technologies and new experiences of China's poultry disease research institutes in recent years. "**The 20th Academic Symposium of the Avian Disease Branch of the Chinese Society of Animal Husbandry and Veterinary Medicine**" will be held in Yangzhou City, Jiangsu Province from January 19th to 22nd. The main theme of the conference is "Reduction of resistance and burden, emerging poultry diseases, biosecurity, poultry health". For more information, visit the website.

European Federation of Animal Science (EAAP)

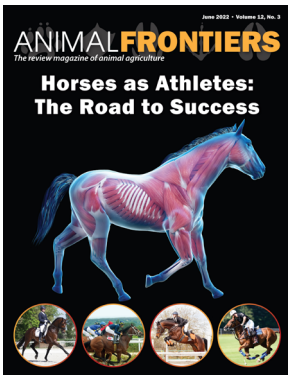
EAAP News

Great news from EAAP journals

EAAP journals, animal and Animal Frontiers, are performing very well, as we can read from the recent analysis of Impact Factor. animal, the international journal of animal biosciences has been recognised with a 2021 Impact Factor of 3.730 (previously 3.240), ranking 8/63 in the Agriculture,

Dairy & Animal Science category (previously 9/63) and 10/144 in the Veterinary Science Category (previously 15/146). Even a bigger step forward has been done by Animal Frontiers, reaching an Impact factor of 6,762 that put this journal as 2nd in the 63 ranked journals of Agriculture, Dairy & Animal Science category. EAAP is very pleased to thank the authors, readers and editorial boards of its journals, owned in cooperation with other relevant scientific societies, and wishes to underline that our "winning strategy" is to continue to offer the most scientifically rigorous publication approach.





Members discounted fee registration to EAAP Annual Meeting 2022

Participating to the EAAP Annual Meeting 2022 in Porto is a great opportunity to share new ideas in practice through many parallel sessions, attending a plenary meeting, poster presentations, and discussions about scientific achievements in livestock production. Late registrations are accepted on the website until 16th of August and Onsite starting from 4th September!
Please remember that only Individual members can have an immediate discount to register to the meeting: Rates discount can go up to 100€! Check your rate here!

2nd one-day symposium of the ATF and EAAP

Since 2013, the ATF-EAAP Special Session during the EAAP Annual Meeting aims to bring together animal science with practice of animal production and connect researchers, policy makers, industry representatives and societal organisations. Every year, a different topic is addressed during this session. In 2021, the EAAP Livestock Farming Systems Study Commission and the ATF Special Session have joined into a one-day symposium. In 2022, they have decided to continue the collaboration. The EAAP Commission on Livestock Farming Systems and the ATF would like to draw a state of the art on GHG emissions from livestock, the role of methane, the different metrics to measure emissions and mitigation levers at various scales, inviting international organisations, research organisations, farmers, industries, NGOs and policy makers. The symposium will be held on 5th September in Porto (Portugal). Registration is mandatory on EAAP2022 website. For more info and the program visit the ATF website.

Latin American Association of Animal Production (ALPA)

ALPA News

The next **XXVII ALPA meeting** will be in April 26-28, 2023 in conjunction with the Mexican Association of Animal Production. The meeting will be in the city of Zacatecas under the auspices of the Autonomous University of Zacatecas.

XXXII International Meeting on Meat and Milk Production in Hot Climates will be held on October 6 and 7, 2022. The event will be hybrid (face-to-face and virtual) UABC, Campus Mexicali, B.C. The works must be sent to the Scientific Committee of the event by email to the following address: carneyleche@uabc.edu.mx.

The deadline for receiving papers will be August 15th, 2022.

IV International Congress of Animal Production Specialized in Cattle, Cuenca, Ecuador October 20 - 22, 2022. Organized by the Faculty of Agricultural Sciences of the University of Cuenca. More information is available here.

The first issue of **ALPA en el Campo**, only in Spanish, is available. Read it here.

Malaysian Society of Animal Production (MSAP)

MSAP News

MSAP Conference 2022

The Malaysian Society of Animal Production (MSAP), in collaboration with Universitas Sumatera Utara (USU), University Putra Malaysia (UPM), Malaysian Agricultural Research and Development Institute (MARDI) and the Department of Veterinary Services Malaysia (DVS) will organize the 41st Malaysian Society of Animal Production (MSAP) Annual Conference (in-person) and 6th ASEAN Regional Conference on Animal Production from 26th to 28th October 2022 in Penang, Malaysia. This year's MSAP conference with the theme "Challenges and Opportunities in Livestock Production Across Borders" will encompass how Covid-19 pandemic has changed the way we live. Therefore, we need to shape our future work, to overcome the issues arising due to the pandemic in the livestock industry. This conference is a platform to discuss these latest issues and others related to the industry across borders. It will feature prominent academic and industry speakers who are pushing the boundaries of food science research and production. Detailed information is available here.

South African Society of Animal Science (SASAS)

SASAS News

The 53rd SASAS Congress

After a 3-year absence, come and reconnect with your friends and colleagues again, meet new colleagues and network, make new friends and networking connections at the 53rd South African Society of Animal Science (SASAS) congress in the KZN Midlands. Pietermaritzburg and the midlands are well known as hosts to internationally renowned sporting events and has a selection of great mountain bike trails to offer. But, more important, the KZN Midlands is well known for livestock production off pasture, particularly dairying. Cedara in the KZN Midlands specialises in Livestock Production of cultivated pastures, most significantly dairying on pasture. The University of KwaZulu-Natal, in Pietermaritzburg, has a reputation for Poultry and Animal Science Research as well as Pasture and Veld Management Research. The theme of the congress is: Changing paradigms in livestock production – confronting a new reality after the world has been changing ever faster with global warming and then the upheaval of the pandemic and the influence of social media. Global warming is making an impact on Africa, and according to ILRI by 2050 heat stress induced by climate change may drastically alter livestock production in Africa. The SASAS congress will focus on some of these issues, with international experts invited to address us on these issues. The congress will be a hybrid incorporating in-person attendance with live streaming only of the main venue. For more information visit the website.

News from Science

Course - Big Data and Digital Tools Applied to Livestock Production in Padova, Italy

The course Big Data and Digital Tools Applied to Livestock Production is open to researchers working in all areas of animal sciences, such as nutrition and physiology, management, genetics and reproduction, in industry or academia, especially those interested on data analytics and precision management of livestock. The course will be held in Padova, Italy, from 26th to 30th September 2022. Information about registration is available here. Discover more about the course here.

Sex-sorted semen in dairy breeding – what's the latest?

There are many benefits to using sex-sorted semen. Obviously, its use allows dairy producers to lower the chance that bull calves will be born. They can also improve their genetics without exposing their animals to potential new biosecurity threats through the purchase of heifers from other farms. Read the full article on DairyGlobal.



Production data can improve sow longevity

Animal welfare in gestation and farrowing units is a high priority for most sow producers. A longer production life for sows results in increased profitability for pig producers. Moreover, it is expected that increased sow longevity will improve animal welfare, because underlying causes of mortality and morbidity can be reduced. Read the full article on PigProgress.



News from Industry

Meat-like terms not permitted in South Africa

South Africa's Department of Agriculture, Land Reform and Rural Development has imposed a ban on "meaty" names for plant-based meat alternatives. Read the full article on PoultryWorld.



Job Offers

Assistant or Associate Professor, Cornell University, Ithaca, NY

The Animal Science Department of Cornell University is looking for an Assistant or Associate Professor of Digital Dairy Management and Data Analytics. Application Deadline: 12th August 2022. For more information read the job vacancy.

PhD Research Associate/Fellow at the University of Sydney, Australia

The University of Sydney is looking for a Postdoctoral Research Associate/Fellow on Sustainable Livestock Production to work under the supervision of Professor Luciano Gonzalez. Deadline for application: 14th August 2022. For more information read the job vacancy.

Publications

1.Elsevier

Animal:Volume 16- Issue 7 – July 2022
Article of the month:"Targeting improved resilience in Merino sheep – Correlations between immune competence and health and fitness traits".

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

I. "Importance of Photosynthesis Bacteria in Pond Management and Health Performances in Aquaculture"

II. "Influence of grains postharvest conditions on mycotoxins occurrence in milk and dairy products"

III. "Substrate as insect feed for bio-mass production"

IV. "Effects of a saponin and oregano blend on performance and oocyst shedding in turkey poults during a coccidiosis challenge"

3. Oxford Academic

"Animal Frontiers", Vol. 12, Issue 3, June 2022.

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.

August 2nd 2022, Pattaya Thailand

2022 AHAT Annual General Meeting

The Animal Husbandry Association of Thailand will hold the 2022 annual general meeting on Wednesday 2nd August 2022 at the meeting room of Village 9 Civilization, Nong Nooch Tropical Botanical Garden, Pattaya. Detailed information is available here.

September 5th – 9th 2022, Porto, Portugal

73rd EAAP Annual Meeting

EAAP is delighted to invite you to the 73rd Annual Meeting. It will be held from 5th to 9th September 2022 in Porto, the marvellous city of Portugal. For more and updated information visit the EAAP2022 website.

September 12th – 15th 2022, Granada, Spain

7th EAAP International Symposium on Energy and Protein Metabolism and Nutrition (ISEP 2022)

The 7th EAAP International Symposium on Energy and Protein Metabolism and Nutrition (ISEP 2022) will be held in Granada (Spain) from September 12-15, 2022. You can find all the information at the

symposium webpage. For detailed information and registration visit the website.

September 18th – 21st 2022, Alghero, Italy

10th Workshop on Modelling Nutrient Digestion and Utilization in Farm Animals (MODNUT)

The 10th MODNUT will highlight relevant new research on animal modelling and will feature oral and poster presentations by attendees and invited speakers. For more information visit the website. In this website you can preregister for free to receive updates by email.

September 18th – 23rd 2022, Eger, Hungary

13th International Conference on Goats organized by the International Goat Association (IGA)

The International Goat Association promotes goat research and development for the benefit of humankind, to alleviate poverty, to promote prosperity and to improve the quality of life. For more information regarding the meeting, please do not hesitate to visit the official conference website.

JSeptember 19th – 23rd 2022, Zadar, Croatia

30th Animal Science Days

The 30th Animal Science Days (ADS), will be organized by the University of Zagreb in Zadar, Croatia. The main topic will be the challenges of animal science in times of climate change. For all the details and registration visit the website.

September 26th – 28th 2022, Howick, South Africa

53rd SASAS Congress

The 53rd SASAS Congress will be held at the Cedara Agricultural College in the Midlands of KwaZulu-Natal, South Africa, from 26th to 28th September 2022 with the theme: "Changing paradigms in livestock production – confronting a new reality". Detailed information is available on the website.

September 26th – 28th 2022, Bolzano, Italy

8th European Symposium on South American Camelids and 4th European Meeting on Fibre Animals

The Symposium will be held at the Free University of Bolzano. Following the tradition of previous events, the Symposium will cover a broad range of topics related to breeding and husbandry of South American domestic and wild Camelids, wool sheep, Cashmere and Angora goats, Angora rabbits and any other fibre producing mammals in Europe and beyond. For more information read the flyer.

October 10th – 14th 2022, Varadero, Cuba

Animal Production Convention and Agro-development

The Animal Production Convention and Agro-development will be held at Plaza América Convention Centre in Varadero, Matanzas, Cuba from 10th to 14th October 2022. For further information, please visit the website.

October 20th – 22nd 2022, Cuenca, Ecuador

IV International Congress of Animal Production Specialized in Cattle

The IV International Congress of Animal Production Specialized in Cattle will be held in Cuenca, Ecuador, on October 20 - 22, 2022. Organized by the Faculty of Agricultural Sciences of the University of Cuenca. More information is available here.

October 26th – 28th 2022, Penang, Malaysia

41st MSAP Conference 2022

The Malaysian Society of Animal Production (MSAP), in collaboration with Universitas Sumatera Utara (USU), University Putra Malaysia (UPM), Malaysian Agricultural Research and Development Institute (MARDI) and the Department of Veterinary Services Malaysia (DVS) will organize the 41st Malaysian Society of Animal Production (MSAP) Annual Conference (in-person) and 6th ASEAN Regional Conference on Animal Production from 26th to 28th October 2022 in Penang, Malaysia. Detailed information is available here.

November 16th - 18th 2022, Gran Canaria, Spain

International Scientific Meeting on Colostrum

Several internationally renowned scientists in the field of colostrum and lactation will present their profound knowledge in different fields of research around colostrum as keynote speakers during the International scientific meeting on Colostrum which will be held on November 16th – 18th 2022. Please see the list of speakers and the area of their research as well as all other continuously updated information about the meeting on the website.

January 19th – 22nd 2023, Yangzhou City, China

20th CAAV Academic Symposium of the Avian Disease Branch

The 20th Academic Symposium of the Avian Disease Branch of the Chinese Society of Animal Husbandry and Veterinary Medicine will be held in Yangzhou City, Jiangsu Province from January 19th to 22nd. For more information, visit the website.

March 7th – 9th 2023, Naperville, IL

ADSA Discover Conference: Why Cheese from Milk?

This Discover Conference will be offered as a hybrid program with both in-person and virtual participation options. Contact conference coordinator Molly Kelley or conference directory Larry Miller for more info. Visit the website here.

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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