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## EDITORIAL

### Is it reasonable to continue eating wildlife?

There is probably no one in the world that remembers the events associated with the major Influenza pandemic of 1918-1920 that may have killed 100 Million people. But we may have received some useful lessons from the oldest survivors of that pandemic that apply to the current COVID-19 crisis. Like for the Fukushima disaster in 2011, where the protection walls were built below the maximum height of the centennial tsunami, it is probably usual for us to forget the major crises experienced by humanity over the centuries. We are more concerned, once the danger is here, to protect us from its immediate damage rather than to focus on its emergence. This is similar to the major emerging diseases we have had to face over the last 30 years. We have already experienced the disastrous global health and economic consequences of emerging diseases associated with the marketing and consumption of wildlife. In spite of the clear risks associated with these practices, there are no strict rules in place to govern the marketing, sale and consumption of wildlife. It is thought that the current COVID-19 pandemic may have originated from or around a small market of live and wild animals in central China. This has occurred in this country because Chinese traditions and practices lead to a frequent consumption of wild mammals, though we know that it also occurs in other places around the world, as stated by the [ILRI team](#) .

About 25 years ago, while I was planning a trip to Asia, one of my colleagues, an animal pathologist, told me: "if you eat something from one of these markets, at least, please do not eat mammals, because the risk of disease transmission is high". I like and respect traditions of different countries and cultures. It was interesting to me, during this trip, to see these small wild mammals waiting to be ordered and then eaten by the local clients. But if I balance the respect of ancestral traditions with the effects of a global pandemic to cause millions of deaths and a profound stoppage of the global economy, I am fully not in favour of these traditions. How is it possible that 25 years after my trip, buying and eating Bats or Pangolins or Civets, or Tree shrews, or [Ferrets](#) , which are the major species at risk of disease transmission, are still possible in an official market of one of the main cities of central China? Would it not have been preferable, after the SARS and MERS crises, which had the same wildlife origin, to completely prohibit the marketing and consumption of these and other wild animals?

... Continues

## Editorial (continues)

For more than 30 years, a large number of animal scientists engaged in prevention and cure of diseases know that we need to act at three levels. (a) Act very early on the knowledge of the numerous families of diverse pathogens, even those not immediately thought to be at risk for transmission to humans or other animal species. This investment should be done by studies on the pathogens themselves in order to know their genetic content, their variability, their natural hosts and their potential pathogenicity. (b) Act at the bottlenecks of pathogen transmissions from one species for another, which is one of the key elements explaining the most recent bursts of HIV-AIDS, Ebola, Nipah, Hendra, SARS, MERS, Avian flu, swine flu and, in the final analysis, COVID-19. (c) Act in the sustainable livestock systems of today and for tomorrow to protect farm animals from any diffusion or emergence of diseases. We have known for millennia that animals could be a critical compartment for zoonoses and strong efforts should be pursued to prevent pandemics by organizing worldwide networks of scientists and practitioners of animal health to be able to react immediately at the first signs of an emerging disease. Moreover, support for these projects must be at a global level (see the example of the [MOOD European project](#)).

However, the amount of work is tremendous and when the crisis is not there, even though it is at our borders, our tendency and the tendency of our policy makers is to invest in other priorities. This approach leads to providing an insufficient quantity of funding to laboratories able to investigate and identify potential pathogens and their biology. It is very clear that Science and technology should be supported in the near future in these areas and simultaneously in the three levels mentioned above.

We also need to keep a warning message engraved in bronze at the entrance of all agriculture and health ministries around the world, that the 2020 COVID-19 pandemic appears to have started by the authorized consumption of meat from Bats, Pangolin (or Civet, or Tree shrew, or Ferret) by humans, and that this should be prohibited and strictly controlled all around

the globe! Such a bronze tablet would have been very useful to the builders of the walls protecting Fukushima nuclear plant from tsunamis: the height of centennial tsunamis is 20 meters, not 10 meters! We should not commit the same mistake as the Japanese nuclear plant builders of forgetting the lessons of the past, even though there is nobody remaining with first-hand knowledge of the events. Even if an event is very rare, its consequences can be extremely high and its effects absolutely catastrophic, not only in the country where it originates, but for the whole of humanity. Unlike the Fukushima situation, where it was impossible to prevent the initial earthquake which provoked the tsunami, we could have prevented the origin of the current COVID-19 crisis.

The initial event of this COVID-19 crisis, the consumption of wild mammals, is also an excellent indicator of the consideration in which we keep biodiversity and the absolute need to consider it much more seriously than before. We all know that poaching to feed the illegal market of illusory drugs treating sexual performances or longevity, or of ivory, is responsible for major population losses in Rhinoceros, Tiger, and Elephant etc. These large animals are very visible on the scene, but this also applies to Pangolins, Civets, Bats and many other wild animals. Is it reasonable to endanger 10% of the global wildlife population to satisfy the illegal needs of less than some hundreds of consumers? Certainly not and these practices should be prohibited in the few countries where they are still allowed and strongly condemned and resisted in all countries.

So, my answer to the initial question is certainly no. We should not continue to eat products from wildlife, especially from species at risk for disease transmission to humans and animals. We should instead consume only animal products from livestock of known and controlled health.

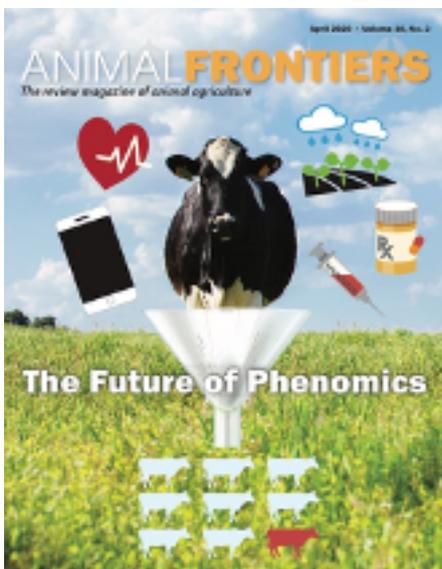
Philippe Chemineau  
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## From WAAP

### WAAP is now joining the group publishing *Animal Frontiers*

WAAP was invited to become member of the Consortium publishing *Animal Frontiers*! WAAP will join ASAS, AMSA, CSAS and EAAP in the group of those in charge of *Animal Frontiers*. As immediate consequence WAAP will be responsible to organize one issue of the journal per year. Furthermore, every year a different member of WAAP, different from those already member of Consortium, will be invited to organize one issue of *Animal Frontiers*. The goal is to give a very global flavour to the publications of this magazine.

### News from Deb Hamernik, *Animal Frontiers* Editor-in-Chief



The April 2020 issue of *Animal Frontiers* is titled, “The Future of Phenomics.” This issue contains seven review articles from Africa, Europe, Asia, and the Americas and provides a global perspective of how phenomics will impact livestock production in the future. Phenomics will include development of high-throughput data collection techniques from multiple research disciplines at different biological levels, collection of environmental data, and new

computational approaches to integrate and interpret large amounts of data.

In the first article, Dr. Raphael Mrode and colleagues provide an overview of how digital technology could change livestock development in low income countries ([Mrode et al, 2020](#)). Dr. Carina Visser and colleagues describe phenomics for sustainable production in the South African beef and dairy cattle industry ([Visser et al., 2020](#)).

Two papers from Europe describe a hashtag (#PhenotypelsKing) that has been widely spread throughout the genetics and genomics world ([Coffey, 2020](#)) and an overview of dealing with complexity in modern dairy cattle breeding ([Seidel et al, 2020](#)).

Future opportunities and their implications for genetic improvement of temperament traits in dairy cattle in China is also provided ([Chang et al, 2020](#)).

The future of phenomics in the American dairy cattle industry is also discussed ([Cole et al, 2020](#)).

The final paper in this issue describes the opportunities and challenges of phenomics applied to livestock and aquaculture breeding in South America ([Ventura et al, 2020](#)).

For additional information on these topics, please visit the open access manuscripts.

Chang, Y., L.F. Brito, A.B. Alvarenga, and Y. Wang. 2020. Incorporating temperature traits in dairy cattle breeding programs: challenges and opportunities in the phenomics era. *Anim. Front.* 10(2):29-36. <https://doi.org/10.1093/af/vfaa006>

Coffey, M. 2020. Dairy cows: In the age of the genotype, #phenotypeisking. *Anim Front.* 10(2):19-22. <https://doi.org/10.1093/af/vfaa004>

### WAAP Twitter account is online!

Don't miss the latest news about AnimalScience from the world following the [WAAP Twitter account](#).

## From WAAP Members

### **Australian Society of Animal Sciences (AAAS)**

#### 33rd Biennial AAAS Conference Postponed

In response to the Federal Government's recommendations to the current COVID-19 situation, the Organising Committee have made the decision to postpone the 33rd Conference of the Australian Association of Animal Sciences. The conference will now be held from Monday 1 February – Wednesday 3 February 2021 at The Esplanade Fremantle, WA. Field Tours will be held on Thursday 4 February 2021. For more info [visit the website](#).

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

#### Updates from the American Dairy Science Association® (ADSA®)

##### 1. ADSA new Executive Director

Catharine Kuber Perry begins her role as ADSA Executive Director in April 2020. Before joining ADSA, Perry served as vice president of member programs and services of the Global Cold Chain Alliance (GCCA). She has also worked for the Animal Agriculture Alliance and the National Youth Organization (FFA). In her home state of California, Perry served as the State FFA president, representing the organization at agriculture sector events. Perry holds a Bachelor of Science degree in agricultural economics from Purdue University.

##### 2. Message from ADSA Regarding the Coronavirus and Annual Meeting – April 20, 2020

The ADSA Board and staff are continuously monitoring the coronavirus outbreak. We are closely following statements from the US Centers

for Disease Control and Prevention (CDC) and the World Health Organization (WHO). At this time, no federal restrictions are in place to prevent meetings and travel within the United States, and as such we are planning for the ADSA Annual Meeting to take place as planned in West Palm Beach, Florida, June 21-24, 2020. We are working closely with our partners in West Palm Beach and the Palm Beach County Convention Center to ensure that your time with ADSA in West Palm Beach is as safe as possible.

ADSA will be extending the early registration discount for professional members to **May 15, 2020**. Many of our members and meeting attendees work in academia, and as many universities are switching to remote instruction methods and implementing travel restrictions in the coming months, we recognize that your ability to register for the meeting may be restricted. We suggest that you consider investing in travel insurance when purchasing airline tickets, paying careful attention to the types of cancellation covered in the policy you choose. If you cancel your registration for any reason **before May 29**, your registration fees will be refunded in full. All cancellations must be in writing and sent to ADSA at: [adsa@assochoq.org](mailto:adsa@assochoq.org).

Please watch the ADSA Annual Meeting website for any updates. Should information and restrictions from either the CDC or WHO change, ADSA will act accordingly and update you as soon as possible. Various options are considered, like a virtual meeting.

Part of the ADSA symposia program is the EAAP / ADSA Symposium: Limits in Production Growth on Level of Cow, Farm, and Industry; It concerns physiological, genetic, management, and environmental aspects. The reverse ADSA or ASAS one-day symposium at the EAAP Porto meeting in August 2020 will be "The Future of Cattle Housing".

##### 3. Discovery conferences - April 1, 2020

After consideration the 38th ADSA Discover Conference, Automation in the Dairy Industry, planned for May 11-13, 2020 in Itasca, IL has been

cancelled. This decision complies with guidance from the Centers for Disease Control and the State of Illinois, along with other travel and meeting restrictions. The conference will not be rescheduled. Registrants will receive a full registration refund. An excellent program was planned. We are working with the conference speakers to share some of their information through interpretive summaries of their planned presentations that will be available on the ADSA website and in S-PAC.

We invite you to make plans to join us for our upcoming conferences:

- **Discovery Conference 39: The Transition Period - From Physiology to Management** that is planned for October 26-29, 2020

- **Discovery conference 40: Nutrient Requirements of Dairy Cows**, planned for June 1-4, 2021 both will be held at Eaglewood Resort & Spa in Itasca, IL. Some more info:

The National Academies of Sciences, Engineering, and Medicine (NASEM) anticipates the 2021 release of the 8th revised edition of the "Nutrient Requirements of Dairy Cattle". The conference will focus on the scientific advancements in dairy cattle feeding used in revising the 2001 edition. NASEM subcommittee members will address the substantive changes in the nutrient requirements and the conceptual approaches used to make those changes. They will report on areas with significant knowledge gaps that still prevent more accurate prediction of the nutrient requirements. The program will bridge from the fundamental science to applied dairy cattle feeding. Registration postmarked by April 30, 2021 is \$375 for ADSA-ARPAS members and \$425 for non-members, which includes sessions and most meals. After April 30, the registration fee will be \$475 member/\$525 non-member. Registration will be accepted on an availability basis. Your registration includes 90 days free access to the Searchable Proceedings of Animal Conferences (S-PAC). For details visit <https://www.adsa.org/Meetings/40th-Discover-Conference>.

#### 4. ADSA Resources for Work or the Classroom

ADSA offers two helpful electronic resources for use at work or in the classroom, the Large Dairy Herd Management e-book and the Searchable Proceedings of Animal Conferences.

The Large Dairy Herd Management (3rd ed., e-book) is available for purchase from ADSA at member, non-member and student rates. Past editions have been among the most widely used dairy information resources in the world. This edition brings peer-reviewed dairy science and management information to users in a readily accessible, easy-to-use electronic format. The e-book includes 97 chapters in 15 sections. Detailed information about the sections, section editors and other information about the e-book including a book preview are available at: <http://ldhm.adsa.org/>.

S-PAC (the Searchable Proceedings of Animal Conferences) is the largest, user searchable, on-line database of animal agriculture conference proceedings. It provides easy access to results from cutting edge research as well as examples of "real world" application of that work through over 650 proceedings from more than 60 conferences. Visit <https://spac.adsa.org/> for more information including a complete list of conferences. Member, non-member, student and academic library subscriptions are available.

Visit the [ADSA website](#) or contact Dr. Ken Olson [keolson@prodigy.net](mailto:keolson@prodigy.net) for information on either resource

#### **Animal Production Society of Kenya (APSK)**

#### **Joint XXIV International Grassland and XI Rangeland congresses**

The Joint XXIV International Grassland Congress– XI International Rangeland Congress will be held in Nairobi, Kenya, October 25 – 30, 2020. The theme of the Congress is "Sustainable Use of Grassland/ Rangeland Resources for Improved Livelihoods". The aim of the congress will be to promote the

interchange of scientific and technical information on all aspects of grasslands and rangelands: including grassland/rangeland ecology; forage production and utilization; livestock production systems; wildlife, tourism and multi-facets of grassland/rangeland; drought management and climate change in rangelands; pastoralism, social, gender and policy issues and capacity building, extension and governance. We look forward to seeing you in Nairobi in 2020. Further information is available [on the website](#).

### **Chinese Association of Animal Science and Veterinary Medicine (CAAV)**

#### **The role and activities CAAV took in fighting COVID-19**

Since the outbreak of COVID-19 in Jan, the Chinese people are making all-out efforts in fighting the disease. Chinese government has swiftly put in place a national inter-agency mechanism, and acted resolutely with the most comprehensive, rigorous and thorough measures in protecting the life and health of the people of China. Up to date, the lockdown measure to Wuhan city had lifted two weeks ago, the transportation for passengers and goods had recovered, and most important the work resumption had been taking place nationwide in past several weeks. However, the personal sanitary and social space measures are implemented strictly, the general circumstance of COVID-19 prevention and controlling is very encouraging and successful in China.

Chinese Association of Animal Science and Veterinary Medicine (CAAV) had positively joined this national activity in fighting the COVID-19. There are three academicians of Chinese Academy of Engineering and Chinese Academy of Science, Dr. Huanchun Chen, Dr. Gaiping Zhang and Dr. Hualan Chen lead their teams to take part in the joint research of New Corona Virus detection and prevention technology, and this virus epidemic and transmission among accompany animals, especially the achievement of launching new detection reagent

to New Corona Virus, largely improved detection precision and shorten the detection time.

CAAV organized air auditorium of animal science and veterinary technology, broadcasting by internet from 17 March to 3 April. There are 48 professors and researchers made presentation and live broadcasting, there are more than 200 thousand audiences watching the lecture by personal computer and mobile at home or at farm. The air auditorium is focusing to provide expertise on veterinary, animal feeding program, nutrition, bio-security measures and emergency activities to difficulties in farm management during fighting with COVID-19. Farms are very positively feedback to air auditorium, which helps them to adjust feeding program and make nutritional balance ratio against lock of feed by temporary transportation limitation during COVID-19 epidemic; to make comprehensive measures of bio-security; to improve the knowledge of disease diagnosis and treatment etc., As the COVID-19 pandemic continuously globally, CAAV is planning to organize such air auditorium and internet conference in rest time of this year.

The animal production in China is mostly getting rid of impact of COVID-19, the feed and product transportation recovered by supporting of government. Most of the works in feed mill, slaughter house and farm are returning to work. Meat, milk and egg supply went back the normal level. Due to the prolong farming time and less replacement of chicks and piglets during Feb, it is estimated that the growth of meat production will be less than previous expectation, the egg and dairy production will be following the expectation to grow. Farmers profit will be reducing a bit, but will be offsetting by price growing more or less.

The COVID-19 is the common enemy to the whole world, we cannot waiting for totally eliminate the virus to resume livestock and poultry production, which is not only very important to farmer's livelihood, but essentially to all consumers daily life. CAAV believes it is the time to jointly take action, contributing to farmers and society, to overcome the difficulties caused by disease. CAAV suggests that all members of WAAP should improve

communication and exchange on experience and solutions against COVID-19 influence to livestock and poultry production, by guiding or organizing of WAAP. CAAV welcomes all members of WAAP to join CAAV's air auditorium or internet conference in your interesting.

Lands apart, sky shared. CAAV sends all the best to you all.

## **Canadian Society of Animal Science (CSAS)**

### News from Canadian Society of Animal Science

#### **I. Message from the President**

Despite these unprecedented times, animal scientists around the world are still working diligently to maintain high quality animal research. In the spirit of looking forward, the Canadian Society of Animal Science is pleased to present the April issue of Animal Frontiers, showcasing seven review articles giving a glimpse of how phenomics will impact livestock production in the future. The contributions from Africa, Europe, Asia, and the Americas provide a global perspective of how livestock scientists view the automation of phenotype recording. We hope you enjoy this special issue celebrating the 10th anniversary of Animal Frontiers!

Stay safe and healthy,

Christine Baes, on behalf of the Canadian Society of Animal Science Executive

#### **2. CSAS Student Competitions at the 2020 ASAS-CSAS Joint Annual Meeting**

It is with regret that we advise that the Canadian Society of Animal Science Graduate Student oral and poster competitions at the 2020 ASAS-CSAS Joint Annual Meeting in Madison, WI were cancelled due to increased COVID-19 concerns. This decision was based on travel restrictions in place, uncertainty around when restrictions may end, as well as announced changes to the conference from

ASAS regarding virtual and in-person options for attendance and presentation. We hope that students will still consider submission of their abstracts to the 2021 meeting and encourage all 2020 conference attendees to visit the website for alternatives for potential symposia and presentation formats. We look forward to providing a quality student competition at the 2021 ASAS-CSAS Joint Annual Meeting.

To know more about upcoming events read the document.

## **Malaysian Society of Animal Production (MSAP)**

### The 40th Malaysian Society of Animal Production Annual Conference

Malaysian Society of Animal Production (MSAP) is postponing the Malaysian Society Annual Conference to next year due to the current Covid-19 outbreak. The new timing has not been decided yet but certainly will be in 2021.

## **Nigerian Society for Animal Production (NSAP)**

### Nigerian Society for Animal Production has a new national executive Council



The Society held its 45th Annual Conference between 15th and 19th March, 2020 at the Bauchi North west Nigeria. The theme of the conference was "EXPLORING THE VALUE CHAIN GOLDMINE OF ANIMAL AGRICULTURE IN NIGERIA". The conference featured a number of activities including excursion to the famous Yakari

Game Reserve, Sumu Wild life park, Abubakar Tafawa Balewa tumb and Emir's palace. Participants from both the academia and industries were all in attendance.

The New National Executive Council, that will pilot the affairs of the society for the next two years, was constituted at the conference with the following members:

- Prof F. O. Abeke - **President**
- Prof O. A. Adeyemi - **Vice President**
- Dr Musa I. Ghude - **Secretary General**
- Dr F. Udeh - **Assistant Secretary**
- Prof O. J. Babayemi - **Editor in Chief**
- Dr O. A. Abu - **Deputy Editor in Chief**
- Dr F. Jemiseye - **Publicity Secretary**
- Dr N. P. Achi - **Treasurer**
- Prof A. O. Ani - **Ex-Officio**
- Prof E. B. Etuk - **Ex-Officio**
- Prof D. M. Ogah - **Ex-Officio**

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

**EAAP's new website is online!**

We are proud to announce that the new EAAP website is online! New graphics, new contents and areas, such as the Calendar of the Events and the EAAP News section now available to keep you constantly updated about news and events from the world of Animal Science. Let's start browsing here: [www.eaap.org](http://www.eaap.org)  
Enjoy!"

**Announcement in relation to the EAAP 2020 Annual Meeting to be held in Porto**

The EAAP Council is continuously monitoring the situation regarding the COVID-19 pandemic and its potential impact on the annual meeting due to be held in Porto (Portugal) this summer. The EAAP Scientific Committee is currently finalizing the Scientific Program for Porto. This Program will be ready in some days, and this year we have received a record number of abstracts (1500+). The current position, based on the best available advice, is that the conference is going ahead as planned and that the registration procedure should continue as per normal. We will however continually monitor developments, taking WHO advice on board at all times. For more information read [the full alert announcement](#).

**2020 Leroy Award to Giovanni Bittante**



EAAP Council proclaimed the 2020 Leroy Award winner: Prof Giovanni Bittante from the University of Padova. He had manifold contributions to animal science for he has been very influential in Italy as a scholar, mentor and leader in the field of animal production, with emphasis in breeding and genetics. In today world of specialization, Giovanni Bittante is one of the few persons viewing animal breeding as part of a system representing not only

genetic and environmental variables, but also rural sociology, product quality and overall sustainability. He has been extremely relevant training hundreds of students in animal breeding, a mentor of scholars, contributing to the development of an Italian network of researchers. He is a prolific researcher with hundreds of papers in refereed journals resulting in a very high h-index in Google Scholar. Giovanni has been EAAP Council member and he directed Departments and Institutes and has been also Dean of the Faculty of Agriculture at the University of Padova, where Galileo observed the world and taught

[ATF-EAAP special session in Porto](#)



The 8th ATF-EAAP special session “What livestock has to offer to biodiversity & healthy soils” will be held during the EAAP Annual Meeting on August 31st in Porto. The provisional programme is available on [ATF website](#).

**South African Society for Animal Science (SASAS)**

[52nd SASAS Annual Congress postponed until 2021](#)

On Sunday 15th March, South African President Cyril Ramaphosa announced a national state of disaster and detailed a series of measures aimed at containing the spread of the virus in the country. These include travel bans from high-risk countries currently and prohibitions against gatherings of more than 100 people. The 2020 SASAS Congress was to be held at the CSIR International Convention

Centre in Pretoria, South Africa from 20–21 July this year. The congress would have included local and international speakers an estimated 350 delegates. The health and safety of our members, colleagues, and partners is our highest priority, and in response, the South African Society for Animal Science has taken the difficult decision to postpone the event to 2021. As soon as a new date is confirmed, SASAS will communicate it broadly through emails and [website](#).

**News from Science**

**A year without conferences? How the coronavirus pandemic could change research**



As scientific meetings are cancelled worldwide, researchers are rethinking how they network — a move that some say is long overdue. [Read the full article on Nature](#).

**CRISPR enhancement, coronavirus source and a controversial appointment**



Pangolins suspected as source of coronavirus outbreak. Two researchers at the South China Agricultural University in Guangzhou have

suggested that pangolins — long-snouted mammals often used in traditional Chinese medicine — are the probable animal source of the coronavirus outbreak causing global alarm. [Read the full article on Nature.](#)

## News from Industry

### Indian petfood market set to grow



With over 20 million dogs, the Indian petfood market is growing at a compound annual growth rate (CAGR) of 13.9% and will be worth USD\$ 430 million by the end of 2020. With rapid urbanisation and an increase in nuclear families across the country, more and more people are keeping dogs as pets. [Read the full article on AllAboutFeed.](#)

## Job Offers

### Future Leaders – African Independent Research (FLAIR) Fellowships 2021

Future Leaders – African Independent Research (FLAIR) Fellowships are for talented African early career researchers who have the potential to become leaders in their field. These fellowships provide the opportunity to build an independent research career in a sub-Saharan African institution and to undertake cutting-edge scientific research that will address global challenges facing developing countries. Deadline: 27th May 2020, at 3pm (UK time). For more information and application [read the job vacancy.](#)

### Postdoctoral Associate in Canine Genetics at Cornell University, Ithaca, New York, USA

The [University of Cornell](#) is looking for a Postdoctoral Associate in Canine Genetics who will work in collaboration with a diverse team studying the genetics of canine longevity, quality of life, and performance. The research will include phenotypic data collection from dogs with subsequent statistical and genomic analysis aimed at quantifying aging in dogs and identifying genetic factors effecting longevity and performance. Deadline: 30th September 2020. For more information and application [read the job vacancy.](#)

## Publications

### 1. Cambridge University Press

[Animal: Volume 14- Issue 5 – May 2020](#)

Article of the month [“Effect of altering ruminal pH by dietary buffer supplementation on methane emissions from sheep fed forage rape”](#)



### 2. Domestic Animal Endocrinology

[Is it time to reconsider the relative weight of sociosexual relationships compared with](#)

[photoperiod in the control of reproduction of small ruminant females?](#). J.A. Delgadillo, H. Hernandez, J. A. Abecia, M. Keller, P. Chemineau. 5 March 2020.

### 3. Frontiers in Nutrition

[The Myth of Cultured Meat: A Review](#). S. Chriki, J.F. Hocquette. 7 February 2020.

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

I. [“Forms of dietary selenium and drivers of efficacy: From genes to biological effects”](#)

II. [“From waste to food: Optimising the breakdown of oil palm waste to provide substrate for insects farmed as animal feed”](#)

III. [“Oxidative Stress and Animal Health”](#)

## Obituary

### Dr Gene Freeman (1931-2020)

It is with sadness that the Animal Breeding, Genetics and Genomics Group at Iowa State University report the passing of Dr. A. E. (Gene) Freeman on March 21, 2020. A full accounting of Gene’s many outstanding contributions can be found at [“The Contributions of A. E. Freeman”](#) by Ronald E. Pearson at Journal of Dairy Science and [in an interview of Dr. Gene Freeman by Dr. Jack Dekkers](#).

Excerpts of the JDS article are presented [in this document](#).

Condolences can be sent to Christine Freeman at 2355 Hamilton Circle, Apt 22, Ames, IA 50014

## 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 31st – September 4th 2020 in Porto, Portugal

#### 71st Annual Meeting of European Federation of Animal Science

EAAP is delighted to invite you to the 71st Annual Meeting. It will take place from August 31st to September 4th, 2020 in the world heritage city of Porto, Portugal. Detailed information can be found on [EAAP2020 website](#).

### September 28th – 30th, 2020 in Bled, Slovenia

#### Joint meeting EAAP Mountain Livestock Farming & FAO-CIHEAM Mountain Pasture

The Joint Meeting of EAAP Mountain Livestock Farming Working Group & FAO-CIHEAM Mountain Pasture Sub-Network “Mountains are agroecosystems for people” will be hosted by the University of Ljubljana in Bled (Slovenia) on September 28th - 30th, 2020. The organizers answered to questions about possible delays of the workshop dates with [a general alert](#). The original announcement of the workshop can be found [in this document](#) and to register [visit the website](#).

**October 11th – 16th, 2020 in Jasna, Slovakia****8th World Deer Congress 2020**

The 8th World Deer Congress 2020 will take place at the Hotel Grand Jasna, Slovakia, from 11th-16th October 2020. Do not miss the latest knowledge in the field of deer breeding, biotechnology and the science of deer breeding. For all information and registration [visit the conference website](#).

**CHANGE DATE: October 27th – 28th, 2020  
in Frankfurt, Germany****7th International Akademie Fresenius - Feed  
Conference**

The Feed Conference “Feed Additives, Animal Nutrition, Gut Health, Antimicrobial Resistance” organized by Die Akademie Fresenius, has been postponed and will take place on 27th- 28th October 2020 in Frankfurt, Germany. The complete program is available [here](#). For more information visit the [Akademie Fresenius website](#).

**November 23rd – 24th, 2020 in Paris, France****2nd Aminoacid Academy Workshop**

The 2nd Aminoacid Academy workshop, organized by EAAP and Ajinomoto, will be held in Paris on November 23rd and 24th 2020. The workshop will have three sessions: “environment”, “health & welfare” and “nutritional strategies”. A specific

website with the scientific program, detailed practical info and registration procedure will be published soon.

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](mailto:waap@waap.it).

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