



flash *e*News

European Federation of Animal Science



N° 223 - Aug 2022

www.eaap.org



Main Topics

- **News from EAAP**
pag. 1 - 2
- **EAAP People Portrait**
pag. 2 - 3
- **Science and Innovation**
pag. 3 - 4
- **News from EU**
pag. 4 - 5
- **Industry and Organizations**
pag. 5
- **Job Offers**
pag. 5 - 6
- **Publications**
pag. 6
- **Conferences, Workshops**
pag. 7 - 8



EDITORIAL

EDITORIAL BY THE SECRETARY GENERAL

Fatal contradictions of food production and consumption

The United Nations report released a few weeks ago confirmed a contradictory situation in relation to food consumption. There is a lack of food for one in three humans across the planet whilst at the other end, 25% of humans are overweight or obese. Every year we actually lose or waste a third of all food produced in the world. The report also shows these indicators are getting worse. In 2021, around 2.3 billion people lived in conditions of moderate or severe food insecurity, up 350 million from before the pandemic in 2019. Close to 800 million people also were affected by the almost total and daily shortage of food, an increase compared to previous years. It is tragic to consider that there are 3.1 billion people, almost half of humanity, whose income is so low that they cannot afford their basic nutritional needs. The report's projections indicate that nearly 670 million people will still face food shortages in 2030. A similar number to that of 2015, when, as part of the 2030 Agenda for Sustainable Development, the UN set the goal of putting an end to hunger, food insecurity and malnutrition by 2030. In short, within 8 years nothing will change. So the question at stake is not whether or not adversity will continue to occur, but how to take bolder actions to build resilience against future shocks. The risks are high also for rich countries, where hunger is currently a very marginal problem, through indirect effects. Rising prices for food, fuel and fertilizers threaten to plunge several countries into famine, resulting in unprecedented hunger and mass migration. A huge problem for Policy Makers and Society. The apparently contradictory dual phenomena of obesity epidemic boom and food waste, are actually both sides of the same coin. Worldwide obesity has nearly tripled since 1975 with over 39% of adults overweight. Obesity and excess intake of calories are not only a problem in rich countries, but they are also increasing in low and middle-income ones, particularly in urban areas. And that it is not just a "Western" phenomenon, almost half of obese children live in Asia. In Africa, the number of overweight or obese children under 5 has increased by 24% since 2000. Furthermore, it is now not uncommon to find malnutrition and obesity coexisting within the same country or the same community. Food waste is also enormous. FAO reports that one third of the food produced in the world ends up in the garbage and its waste also corresponds to the loss of a third of the energy and a third of the water used to produce it. These conflicting phenomena are a metaphor for the contradictions of our society. There are no remedies because governments are unable to transform the way food is produced and consumed and global food corporations in particular have no interest in changing their business models. In addition, there are so many complexities involved in the issue it is very difficult to diagnose the exact causes of such multifunctional situation.

Andrea Rosati



EAAP

European Federation
of Animal Science



Is there more inorganic selenium in Seleno-Yeast than previously believed?

[Read the article](#)

ADISSEO
A Bluestar Company

News from EAAP

The 2022 Young Scientists Award to Carmen Loreto Manuelian Fuste

In 2016 EAAP established the Young Scientists Award to grant European early career researchers who demonstrated outstanding research performance. The Selection committee decided for the 2022 Award to recognize this prize to Dr Carmen Loreto Manuelian Fuste. Carmen works at the Department of Animal and Food Science at *Universitat Autònoma de Barcelona* (Spain). Carmen will be present in Porto with a theatre presentation at Session 49, titled "Composition of organic and conventional Italian cheeses" and a poster presentation at Session 38 titled "Herbal bolus to boost Holstein-Friesian cow's health status and reproduction traits". She will be awarded during the Welcome and Award Ceremony. Congratulations to Dr Manuelian Fuste!



The EAAP Newsletter translated in Spanish!



David López Carbonell

Following the activity of translating the EAAP Newsletters in national languages that we began with the editions in Romanian and in Slovakian, Portuguese and German, we have included a new language: Spanish! Since issue n.222, the Spanish translation of the Newsletter is available for the benefit of Spanish-speaking animal scientists and technicians who find difficult to read English. Spanish is a global language with nearly 500 million native speakers, mainly in the Americas and Spain and the official language of 20 countries. The translation and organization of the Spanish version is cared by David López Carbonell, together with the support of UEECA - Unión de Entidades Españolas de Ciencia Animal. David is a PhD student in the University of Zaragoza (Spain) and the Roslin Institute (Scotland). He is interested in animal breeding, genetics and genomics. His



Innovating from what nature provides

At **METEX NOOVISTAGO** we produce essential amino acids for better animal nutrition and a more sustainable world. We provide the whole livestock value chain with innovative amino-acids solutions.

www.metex-noovistago.com

METEX NOOVISTAGO
Tailored for Animals, Inspired by Nature.

research began early during undergraduate, and it is focused in multitrait genomic prediction. The species with which he usually works are pigs and cattle. Like Nina Moravcikova for Slovakian, Gabriela Cornescu for Romanian, Mariana Dantas de Brito Almeida and Flávio Daniel Gomes da Silva for Portuguese, and Julia Drews for German, David will create the national version of the EAAP Newsletter issues and he will deliver it to interested readers. Translated versions of the EAAP Newsletter issues are [available here](#). EAAP plans in the future to look for cooperation in other countries to distribute Newsletters in national languages.

EAAP People Portrait

Geert Bruggeman



Mr. Geert Bruggeman was born in Flanders, Belgium and graduated at Ghent University where he got his Master degree in Chemistry and Agricultural Sciences. After these studies, he received a

PhD in Applied Biological Sciences as well as a successful training at Vlerick Management School. Mr. Bruggeman started his professional career at Nuscience – a member of the Royal Agrifirm Group - end the 90's, creating from the start on novel and innovative ideas, and contributed this way to the extensive patent portfolio of the company. He performed extensive R&D activities with much attention to the introduction of new feed ingredients, concepts, services and technologies in farm animal production for the customers. His innovation-driven attitude enabled him to supply not only sustainable but also economically viable solutions for the efficient production of animal feed ingredients within the food value chain. Main focus was on developing concepts and services for (1) reduction of raw material depletion and (2) increasing health in livestock production and beyond. Today he's active in the company as Senior Innovation Scout targeting strategic innovations and is involved in numerous (inter)national innovation initiatives and advisory boards safeguarding the exclusive quality and future proof authenticity of the company brands. Further on, he holds an additional European Master degree FELASA D, which is required for validating feed concepts in different kind of animals. Finally, Geert is author and co-author in national and international publications, contributed as speaker in many intercontinental events and he is Industry Representative in the Nutrition Study Commission of EAAP. In this role, he moderated different sessions during the last yearly

illumina®

ON DEMAND WEBINAR

Integrative transcriptomics of the medaka pituitary gland

Dr. Christiaan Henkel

Norwegian University of Life Sciences, Ås

EAAP Annual Meetings. He was also co-organizer of the EAAP Annual Meeting in 2019 held in Belgium. Geert lives in the medieval town Bruges in Belgium, is married, has 2 children and his hobbies deal with sailing boats and enjoying family moments with good food & drinks. His personal ambition is to inspire relatives, friends and colleagues via his skills, passions as well by his personality, to create positive and responsible impact for future generations.

From Science and Innovation

The AAPA launches its 45th Argentine Animal Production Congress

The Argentine Association of Animal Production (AAPA) will hold its 45th Congress virtually on November 16, 17 and 18, under the slogan "The resilience of production systems", addressed by top-level speakers to outline the most important challenges facing animal production in the present and in the future. The president of the Organizing Commission, Victor H. Medina, explained that "resilience is the ability of systems to recover their functional capacity after being altered by

disturbances, such as droughts, floods and fires, as well as the pandemic, the crisis of the economies or the recent war unleashed by Russia's invasion of Ukraine", a topic of great relevance. The conference will host almost 400 presentations. All the details, as well as the complete program and registration, will be available soon on the Congress website. Meanwhile you can find useful to [visit the AAPA website](#). For more information you can also contact the email eeabalcarse.aapa@inta.gob.ar.

AAPA
ASOCIACION ARGENTINA
de PRODUCCION ANIMAL

The importance of mitochondrial phenotype in equine athletes

Current research suggests that distinct mitochondrial phenotypes are present at a young age and are refined with exercise training. The combination of these and other factors such as nutritional inputs results in a mitochondrial phenotype that may impact the success of competitive equine athletes.

With this information, mitochondrial biology may serve to inform breeding, training, nutrition, and other management practices to optimize performance in equine athletes and decrease the incidence of fatigue-induced injury. An interesting paper on this topic was just published in *Animal Frontiers* by C.M. Latham et al. [Read the article here](#).

How the ability to digest milk evolved from famine and disease

The new article of the American science disseminator Ewen Callaway just published on *Nature* shows that occurred thousands of years before most Europeans evolved the ability to drink milk as adults without becoming ill. The lactose tolerance was beneficial enough to influence evolution only during occasional episodes of famine and disease, and that explains why it took thousands of years for the trait to become widespread. The theory — backed up by an analysis of thousands of pottery shards and hundreds of ancient human genomes as well as sophisticated modelling — explains how the ability to digest milk became so common in modern Europeans, despite being almost non-existent in early dairy farmers. The study is the first major effort to quantify the forces that have shaped this trait because, following this recent research, lactase-persistence evolution was much more complicated than we ever thought. To know more on this interesting topic [read the article on Nature](#).

Yeast as a feed supplement for dairy cows

Yeast is a probiotic material that is currently being used in many parts of the world as a feed supplement for livestock. The use of yeast in animal feeding programmes has in many cases resulted in improved rumen fermentation, animal health, milk yield, and adaptation to heat stress. [Read the full article on DairyGlobal](#).



From EU (policies and projects)

The 8th GenTORE newsletter final issue is now available!

After five fruitful and exciting project years, GenTORE project has ended! The 8th and final issue of the newsletter is now available. [Enjoy your reading here!](#)

1st Annual Meeting of INTAQT!

The 1st Annual Meeting of INTAQT took place in Clermont-Ferrand (France) on 6-8 July 2022. INRAE hosted the 60 attendees who met for the 1st time in person. The main objective of the project is to perform an assessment of the relationship between animal husbandry and the "One Quality" of chicken, beef, and dairy products. The "One Quality" refers to safe, healthy and tasty products, produced in a sustainable way. The meeting was the opportunity to recall INTAQT's main objectives and core actions, so that all partners had a complete overview of the activities. All work package leaders reported on the main achievements as well as the activities planned for the coming year. Specific workshops also allowed to take into consideration the conclusions of the large consultation of food chain actors and consumers held across Europe during the 1st year. The farming systems, as well as the quality characteristics on which INTAQT will focus, have been refined according to the priorities of food chain actors and consumers. See you at EAAP Lyon in 2023 for the presentation of the first consolidated results obtained in INTAQT! To find out more, visit [INTAQT official website](#), as well as our social media accounts ([LinkedIn](#), [Twitter](#), [Facebook](#)).



N°223 -Aug 2022

www.eaap.org

The 4th RES4LIVE newsletter is now available!

[Enjoy your reading here!](#) For receiving the future issues, [please sign up here.](#)



ATAC-Seq course at the University of Limoges 7-10 November 2022

BovReg project will organize an onsite laboratory course on **ATAC-Seq: data generation and bioinformatic analysis**, to be held during **7th – 10th of November 2022** at the University of Limoges, France. The host is Veronique Blanquet and her group at ULM. When registering, applicants should include a brief motivation letter to justify their participation highlighting their contribution and the connection to the FAANG community. It will be convenient to have some familiarity with the UNIX command-line to follow the bioinformatics part of the workshop. Twelve (12) participants will be selected by the organizing group to the onsite version of the course based on these letters. Participation to the first day (online) is not limited by number. The course attendance is free, but the participants should organize and cover their travel and accommodation costs. **The registration will be open until 15th August.** For further details please click [here](#).

WIGGIS Workshop, Life CLAW Project 15-16 September 2022

The International Workshop on the "Integration of Genomic and Geographic Information System data for Wildlife Conservation WIGGIS" organized by Life CLAW project will be held in Piacenza (Italy) on September 15-16, 2022. Registration and abstract submission are open. Thanks to the support of Life EU programme, the participation to the WIGGIS

Workshop is free of charge. The registration includes coffee breaks, social dinner and one lunch. Maximum number of participants is 100. Please, visit the [Workshop website](#) for detailed information.

From Industry, Governments and International Organizations

July Business Update: What's new in the world of poultry

We're keeping our finger on the pulse and bring you a summary of the latest business updates from the global poultry industry this July. [Read the full article on PoultryWorld.](#)



Insights into the plant-based dairy market

Plant-based dairy alternatives are steadily gaining ground in supermarkets and the on-trade. With an expected market growth of 12% per year on average towards 2027, this trend looks set to continue in the near future. [Read the full article on DairyGlobal.](#)



Job offers

Assistant or Associate Professor of Digital Dairy Management and Data Analytics at Cornell University, New York, USA

[The Department of Animal Science of Cornell University](#) seeks candidates for a tenure-track position aimed at developing an internationally



recognized program in computational biology or systems biology related to dairy cattle management. Initial screening of applications will begin **August 15, 2022** and continue until the position is filled. For more information and application [read the job vacancy](#).

Five positions at SRUC, United Kingdom

Please see below brief details of five posts offered by the SRUC Dairy Research & Innovation Centre as part of the exciting new £21.3 million Strength in Places project "Digital Dairy Value Chain for South-West Scotland and Cumbria".

1. [Research Fellow – Data Science](#) (three posts)
2. [Maker Space Coordinator](#)
3. [Innovation Broker Digital Dairy Chain](#)

Deadline for all the positions: **21 August 2022**.

Post-Doctoral Researcher at Teagasc, Ireland

A sustainability postdoctoral researcher is available at [Teagasc](#). PhD in science, environmental, or engineering based discipline. Deadline: **23 August 2022**. For more details and application [read the job vacancy](#).

Two PhD positions at UWE Bristol, Ireland

Two PhD positions are available at [UWE Bristol](#):

1. [Development of a new strategy to improve dehorning wound healing and welfare in dairy calves](#) - Ref: 2223-JAN-HAS12.

2. [Developing an automatic monitoring system to evaluate individual drinking behaviour and water intake of dairy cows in grazing systems](#) - Ref: 2223-JAN-HAS13.

Deadline for both positions: **28 August 2022**.

Publications

• FAO

[The State of Food Security and Nutrition in the World 2022](#)

This year's FAO report explains that the world is moving backwards in its efforts to end hunger, food insecurity and malnutrition in all its forms. The intensification of the major drivers behind recent food insecurity and malnutrition trends (i.e. conflict, climate extremes and economic shocks) combined with the high cost of nutritious foods and growing inequalities will continue to challenge food security and nutrition. This will be the case until agri-food systems are transformed, become more resilient and are delivering lower cost nutritious foods and affordable healthy diets for all, sustainably and inclusively. Everything is clearly explained with facts and figures in the report.

• Animal consortium (EAAP, INRAE, BSAS) – 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"](#).

Conferences and workshops

EAAP 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.

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. 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 19th – 22nd 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](#).

September 21st – 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, 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](#) or [visit the website](#).

**Virtual Congress, November 16th - 18th 2022,
45th Argentine Animal Production Virtual
Congress (AAPA)**

The Argentine Association of Animal Production (AAPA) will hold its 45th Congress virtually on November 16, 17 and 18, under the slogan "The resilience of production systems". Soon all the details, as well as the complete program and registration mechanisms, will be found on the Congress web platform. Meanwhile you can find useful to [visit the AAPA website](#). For more information you can also contact the email eeabalcarse.aapa@inta.gob.ar.

**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 in 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](#).

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

*"Nothing is absolute. Everything changes, everything moves,
everything revolves, everything flies and goes away"*

(Frida Kahlo)

Become EAAP Members is easy!

Become EAAP individual member to receive the EAAP newsletter and discover the many other benefits! Please also remember that individual membership is for free for residents in EAAP countries. [Click here to check and register!](#)

The **Flash-e-news** is the Official EAAP Newsletter. This interesting update about activities of the European animal science community, presents information on leading research institutions in Europe and also informs on developments in the industry sector related to animal science and production. The Newsletter is sent to all EAAP Members and supporters. You are all invited to submit information for the newsletter. Please send information, news, text, photos and logo to: marlene@eaap.org

EAAP Secretariat is located at the following address: Via G. Tomassetti 3, A/1 - Rome (Italy). Tel.: +39-06-44 20 26 39; Fax: +39-06-44 26 67 98; E-mail: eaap@eaap.org

Production staff: Marlène Sciarretta, Federica Motterle, Andrea Rosati, Eleonora Azzaro, Milan Zjalic.

Graphics design and layout: Gianfilippo Ercolani.

Address Corrections: If your email address is going to be changed please send us the new one, so that we can continue to deliver the Newsletter to you.