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flash *e*News

European Federation of Animal Science



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EDITORIAL

EDITORIAL BY THE SECRETARY GENERAL

Sustainable intensification

The increase in livestock production, and agriculture in general, has had incredible success, feeding more people than previously thought possible, but at an unsustainable cost for ecosystems, biodiversity, water and climate. The continuous growth of the population and its urbanization, the increase in incomes and the change in tastes will further increase the demand for meat, milk and eggs, also increasing their impact on the environment.

The dual reality of a growing and ever richer human population and the worsening of environmental impacts provides the only solution to "sustainable intensification", that is, the increase in livestock production and at the same time decrease the environmental impact. Both of these concepts are indispensable even if today they are seen as antithetical.

Unfortunately, research into current technologies and even those that can be foreseen now, will not allow for "sustainable intensification", the improvement provided will be insufficient because the time frame for action is too short. This is why research will have to come up with truly innovative ideas, real quantum leaps. And it will have to consider more overall and less sectoral aspects.

Relatively new sectors, perhaps innovative in animal husbandry, must also be evaluated and included, such as the management of information available to the farmer, the fusion of animal husbandry with information technology, the use of geospatial technologies, sensors and algorithms to manage animals in livestock production and genomics. Frontier research needs to be better planned.

For ease of discussion, researchers often focus on only one or two aspects or certain regions. However, research must evaluate the actual production systems for all aspects and consider the impacts in a complete and direct way, from the use of energy to the loss of biocultural diversity and imagine the scalability of such systems and their solutions.

A growing human population, ever richer and more urban, increases the demand for food. It is clear that this must be produced in a more sustainable way, the future of the survival of mankind is at stake. The envisaged solution is that of "sustainable intensification" and whatever it takes to make it happen.

Andrea Rosati



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Is there more inorganic selenium in Seleno-Yeast than previously believed?
[Read the article](#)
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News from EAAP

EAAP stand at ASAS annual meeting

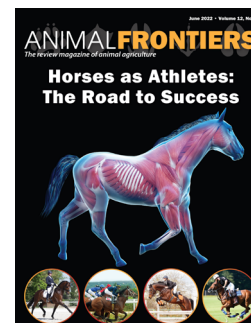
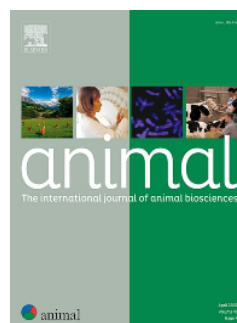
EAAP had a stand at ASAS annual meeting held in Oklahoma City (USA) on June 26th – 30th. The meeting was very interesting with several outstanding scientific sessions. EAAP had, through the stand offered by ASAS, opportunities to disseminate about the many EAAP services and proposing our individual memberships to local participants. Further information about Porto 2022 and Lyon 2023 EAAP Annual Meetings were communicated with the goal to attract participation from scientists coming from the other side of the Atlantic Ocean. In addition, we were able to organize meetings with potential sponsors.



From left to right: Andrea Rosati, Jim Sartin (Editor in Chief of "Animal Frontiers" and Past ASAS President) and Meghan Wulster-Radcliffe (ASAS Secretary General)

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.






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

EAAP wishes to remind that on September 26 to 28, the **8th European Symposium on South American Camelids and 4th European Meeting on Fibre Animals** will take place in Bolzano, Italy. Following the tradition of previous events, this exciting Symposium will cover a broad range of topics related to the breeding, husbandry and sustainability of South American domestic and wild Camelids, wool sheep, Cashmere and Angora goats, Angora rabbit and all other fibre mammals in Europe and throughout the World. If you are interested in participating or sharing your work, please register on the [Webpage](#). The registration fee is 150 € and includes a series of keynote lectures, presentations, poster sessions and workshops, as well as social programs (additional 50€). Further information can be found [on the website](#).



EAAP People Portrait

Ioanna Pouloupoulou



Ioanna 's first interest in farm animals began at a youthful age, as her enthusiasm for goats led her to convince her parents to adopt a goat as the family pet. Little did she know at the time that this was the beginning of an interesting journey in the field of Animal Science. Her career began in Greece at the Agricultural University of Athens where, during her BSc thesis, she participated in research activities related to mountain pasture management practices. This attracted her research spirit and led her to dive deeper in the field of Animal Science, this time at the University of Aberdeen. She completed her MSc in Animal Production and Nutrition and gained experience working at The James Hutton Institute, where she investigated the feeding behaviour of goats, as influenced by the temporal pattern of food ingestion. Afterwards she explored the potential utilization of plant secondary

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Dr. Christiaan Henkel
Norwegian University of Life Sciences, Ås



metabolites as biomarkers for the authentication of animal products, to obtain a Doctorate degree from the Agricultural University of Athens. During her short career in the private sector, she worked as Export Manager for the feed industry as well as an R&D Manager, assisting in several national and European funded projects. She was also involved in the design and scientific accreditation of a cloud-based management tool for livestock farms. During this period, she became the representative of the European farmers' and Agricultural Cooperatives Association (COPA – Cogeca) to the European Commission, in the meetings of the Animal Products Working Groups and of DG – Agri, as an expert in the Poultry and Eggs Forecast Working Group. Ioanna is currently a researcher and lecturer in Animal Science at the Free University of Bolzano, Italy. Her expertise on plant secondary metabolites is also directed into her current research activities, where she focuses on finding efficient alternatives for endoparasites derived from alpine plants. She is also involved in the development and establishment of a benchmarking system to assess the welfare of dairy farms in Alto Adige, using routinely collected data. Along with her colleagues in the Animal Science group led by Prof

Matthias Gauly, she aims to provide a useful tool for efficient decision-making assistance, to local farmers and stakeholders. Her research interests include the evaluation of the existing livestock production systems for different species, along with the development of adaptation strategies to promote product quality and contribute to the viability of the mountain livestock sector. To this end, her long-term objective is to propose policies, which will improve animal welfare along with the production efficiency and contribute to sustainable livestock production in different environments. She combines her research and teaching activities as a member of the BSc and MSc Study Councils and the Quality Assurance Committee of Free University of Bolzano with the promotion of Animal Science as Secretary of the Livestock Farming Systems Commission of the European Federation of Animal Science (EAAP). In this regard, this year she organized the session entitled "The role of local (plant and animal) resources in the resilience of livestock farming systems" to which you are all welcome. Her social consciousness and strong belief that marginalized groups need support and representation on the long road to equality, led her to voluntary work to raise awareness for



the prevention of HIV. As a citizen of the world, she accepted the challenge to move from a city of 3.5 million people to the city of Bolzano in the Italian Alps. Having grown up in Pylos, a small town by the sea in southern Greece, she enjoys her life in Bolzano, and she adapted well to the local environment by becoming proficient in German and by developing her newly acquired alpine skiing skills. In her free time, she enjoys hiking, swimming in mountain view pools, wine tasting and practicing her Italian.

From Science and Innovation

2nd Animal Science Student Camp

The Turkish Animal Science Federation is planning to hold the 2nd Animal Science Student Camp, which will be held from 29th September to 1st October 2022. Animal Science students from Europe are invited to participate to this interesting event. The camping area is located within the borders of Dikili district of İzmir province. For the first time students from abroad will be accepted, but the number for international participants is limited to 20. In order to organize the planning, those who want to participate must register and pay the all-inclusive fee of 250 € by **August 5, 2022** at the latest. Participants will be picked up from Adnan Menderes airport and brought to the campsite. At the end of the camp, the participants will be dropped off at Adnan Menderes Airport on the same day if they wish. Those who want to participate can contact the Accounting Officer of the Federation Dr. Ahmet Uçar (ucara55@hotmail.com; +905070594855).

Here below the bank details to pay the Camp Fee:

Recipient name: Zootekni Federasyonu
Bank: Akbank
Branch: Kızılay/Ankara
IBAN: TR93 0004 6003 5603 6000 3020 89

[Here a video containing images from last year.](#)

A database of animal metagenomes is finally available

A database of animal metagenomes is finally available for everyone thanks to the work of Ruirui

Hu, Rui Yao, Lei Li and their team. With the rapid development of high-throughput sequencing technology and the relative research activities the amount of metagenomic data in public repositories is rapidly increasing. The users of the Animal Metagenome data base can browse, search, and download animal metagenomic data of interest based on different attributes of the metadata such as animal species, sample site, study purpose, and DNA extraction method. The database includes metadata for 82,097 metagenomes from 4 domestic animals (pigs, bovines, horses, and sheep) and 540 wild animals. To have more info about the animal metagenome database [read the full article on Nature Scientific data.](#)

Predictive blood biomarkers of sheep pregnancy and litter size

A new Canadian study guaranteed to be able to get the early detection of sheep pregnancy using blood biomarkers and relative prediction of how many lambs a pregnant ewe delivers. This information has an impact in sheep farmers decisions in a number of ways, most notably with regard to feed management, lambing rate, and sheep/lamb health. The current practice to detect sheep pregnancy and litter size is through ultrasonography despite this method has many limitations. Indirect measurement of pregnancy and litter size using blood biomarkers could offer instead a simpler, faster and earlier route. The Canadian study could lead to the development of a simple, low-cost blood test to measure pregnancy and litter size at an early stage of pregnancy, which could help optimize reproductive management on sheep farms. [Read the full article on Nature Scientific Reports.](#)

Successful supply of dairy-bred cows in the spotlight

Monitoring the successful supply of dairy-bred cows has come under the spotlight as part of a project led by the Scottish Rural Agricultural College (SRUC). The project explored the communication between different stakeholders in the initial link in the dairy-beef supply chain – an important element of the [GB Dairy Calf Strategy](#) – which aims to ensure all dairy-



bred calves are reared with care and for a purpose, either through the dairy or beef supply chains. [Read the full article on DairyGlobal.](#)



From EU (policies and projects)

Third Annual Meeting of H2020 GENE-SWitCH!

GENE-SWitCH - The regulatory GENomE of SWine and CHicken: functional annotation during development (<https://eurofaang.eu/projects/geneswitch>).

On the 8th and 9th of June, the GENE-SWitCH Consortium met for the third Annual meeting at the facilities of IRTA in Caldes de Montbui, a pleasant small town at the outskirts of Barcelona. It was the first in person meeting since the kick-off meeting back in September 2019, and it definitively fulfilled our expectations. We could share and extensively discuss the results so far in the different WPs, and the program included a Pitch session held for the young scientists of the consortium to explain their work and results. We also had plenty of room during the social program (as well as informal "beer times") to enjoy free discussions. Big thanks go to our colleagues at IRTA for hosting us and the excellent organization of the event. [Read the full article here.](#)



From Industry, Governments and International Organizations

Using data to optimise broiler breeder male management

Modern technology is increasingly being used on breeder farms, creating ever more data. This data can be analysed by the farmer to make smarter decisions to improve flock performance and efficiency. These case studies show how sound datasets can help in broiler breeder male management. [Read the full article on PoultryWorld.](#)



Strategies for a sustainable development of the swine industry

The swine industry is set to provide high-quality protein to feed the world's increasing population. To meet this goal, the swine industry needs to enhance production without increasing land use, and it is necessary to look out for the swine shed environment to create more sustainable pork products. In addition, special attention needs to be paid to parameters such as temperature, humidity, carbon dioxide, and ammonia concentration which are crucial for swine health and welfare. [Read the full article on PigProgress.](#)



Nutrition as a tool to help dairy cows adapt to heat stress

Production responses to heat stress may vary depending on factors such as cattle breed, body

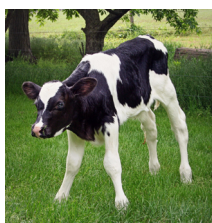


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size, milk yield and degree of exposure to heat stress. Several feeding strategies will help dairy cows adapt to hot climates. [Read the full article on AllAboutFeed.](#)



research, and as part of that strategic vision we are looking to appoint a Full Professor of Quantitative Genomics. We welcome candidates working in the broad area of quantitative genetics, quantitative genomics, and animal breeding to help us make transformative changes in livestock research and address major societal challenges, including food security and climate change. Deadline: **1st of August 2022**. For more information, contacts and application [read the job vacancy](#).

Post-doctoral position at INRAE, France

A Post-doctoral position on epigenetic footprints of environmental changes and epigenetic inheritance is available within the [European project GErNIMO](#). The position is full time for 3 years and based in Toulouse, France. The successful candidate will join a multi-disciplinary environment of geneticists, bioinformaticians and biostatisticians. Deadline: 1st October 2022. For more information and application [read the job vacancy](#).

Job offers

PhD position at Teagasc, Ireland

A four-year PhD opportunity is available at [Teagasc](#) within the European project HoloRuminant: **“The role of microbiomes in the health, welfare and productive performance of beef and dairy cattle”**. Candidates will have or expect to obtain a first or upper second-class honours primary degree, or the equivalent, in a biological science degree (e.g., Animal Science, Biology, Biotechnology, Genetics, Biochemistry, Biomedical Science or Veterinary Medicine). A full EU (B) driving licence is required. Experience of molecular biology techniques, while not essential, would be an advantage. Closing date: **29 July 2022**. For more information, contacts and application [read the job vacancy](#).

Professor in Quantitative Genomics at Roslin Institute, United Kingdom

[The Roslin Institute](#) is expanding in many areas of

Publications

• Oxford Academic

[“Animal Frontiers”, Vol. 12, Issue 3, June 2022.](#)

• Wageningen Academic Publishers

[“Ecology of diseases transmitted by mosquitoes to wildlife”, 2022.](#)

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 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](#).

September 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, 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](#).



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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](#).

“Everything has beauty, but not everyone sees it”

(Confucius)

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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

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