



SUMMARY

Dear members and friends of ISAH,

I hope that this e-Newsletter finds you and your relatives healthy. As the summer time begins, ISAH returns to bring you some new information about the society. This new e-Newsletter keeps record of activities of the Executive Board (EB) of ISAH and informs members about recent developments in the Society and on interesting topics in various fields of Animal Hygiene and beyond.

Hot topics today relate to:

- letter from President,
- latest news from the Executive Board and ISAH members,
- ISAH congress in 2024, from 3rd to 6th September 2024 in Chiang Mai, Thailand,
- announcements of interesting congresses and meetings.

We also take the opportunity to ask you kindly for checking the status of your membership fee. Please look on page 10 for details how to pay the membership fee.

Forthcoming events and publications related to the Society are presented in the end of this issue; please visit the associated pages (12 to 17).

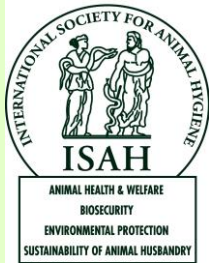
***The 21st ISAH congress will be held in Chiang Mai, Thailand
from 3rd to 6th September 2024.***

***Don't miss the unique opportunity to meet the ISAH circle of influence next
year: **SAVE THE DATE!!!*****

Stay healthy with the goddess Hygiea and I wish you all a relaxing summer time!

Enjoy reading the Newsletter of your Society!

Dr Christelle Fablet - General Secretary of ISAH



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EDITORIAL *By the President*

Dear members and friends of ISAH,

after COVID-19 has lost its horror and become a "normal" epidemic infectious disease, the usual daily routine has returned for most of us. We should be very happy about that!

And we should not forget the important lessons of the pandemic.

Epidemiological surveillance, biosecurity and hygiene measures are the cornerstones of any infection prophylaxis and control. Vaccines and, if necessary, antibiotics can support this but in no case replace it.

All over the world, veterinarians, agronomists and farmers are working to prevent and manage infectious diseases. And also devastating epizootics.

African swine fever and avian influenza pose serious problems. They endanger livestock, they also endanger wildlife and they endanger food security.

At the same time, the need for action in the field of animal welfare and environmental protection in livestock farming is becoming increasingly urgent and creates severe challenges for production chains. Everywhere, worldwide.

We should and we can count on our hygiene expertise in all these challenges and also on our good network in our society, the ISAH.

The ISAH 2024 congress in Chiang Mai will again be a great opportunity to get latest insights on the above mentioned challenges, to strengthen our network and society and also to see old and new friends again.

Please save the date (3-6 September 2024, Chiang Mai, Thailand) already.

I wish everyone a relaxing and healthy summer 2023.

Kind regards from Berlin,

Uwe Rösler

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News from the Society

Some activities of ISAH members in recent months



Prof. Dr. Uwe Harry Rösler, President of your ISAH, was re-elected **Dean of the Faculty of Veterinary Medicine of Freie Universität Berlin** on June 2023.

Freie Universität Berlin (Free University of Berlin) is one of the best universities in Germany and has been awarded a **university of excellence** several times in a nationwide competition between German universities.

Congratulations to him for this prestigious nomination!

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21st ISAH Congress in Chiang Mai, Thailand



3rd to 6th September 2024

Save the date!

The motto of the 21st ISAH Congress, organised and hosted by Chiang Mai University, will be "ISAH 2024: One Health in Action".

We hope you will join us and take the opportunity to learn about current knowledge in the fields of hygiene, infection prevention, animal welfare and environmental protection, to meet colleagues and friends as well as to experience the unique landscape and flair of Thailand.

The Congress is also a unique opportunity for industry acquire new knowledge as well as to exchange experiences with the scientific community of ISAH.



News from research projects

LivestockSense

The main objectives of the LivestockSense project were to:

- ♦ Improve the economic and environmental viability of livestock farms through application of advanced information and communication technologies
- ♦ Identify/remove social barriers for technology adoption to achieve a wider use of ICT on farms

Our ISAH Country Representative for **Australia**, Prof. Dr. **Thomas Banhazi** who coordinated the project is proud to announce the first results to ISAH members & friends! The project results enabled the team to develop solid recommendations for removing barriers for technology implementations and these recommendations were built into the “PLF Compass” application. Results of the current and previous studies were used to create the PLF Benefit Calculator. The associated software development tasks undertaken created an integrated ICT tool that incorporated all the developments, including the (1) user classifier, (2) the benefit calculator and (3) advice generator.

Stay tuned to read the publications on these findings!



aWISH
ANIMAL WELFARE INDICATORS AT
THE SLAUGHTERHOUSE

Prof. Dr. **Thomas Banhazi** is also involved in the aWISH project (Animal Welfare Indicators at the Slaughterhouse). It is a large-scale, automated welfare monitoring of animal-based indicators at the slaughterhouse, that are related to welfare on-farm, during (un)loading, transport, and slaughter. Novel sensors will be developed and tested to measure these indicators, so data can be collected continuously and automatically. The aim is then to use this data to give feedback and advice on best practices to those responsible for the broilers and pigs throughout their lifetime (farmer, catching team, transporter and slaughterhouse). This approach will be developed and evaluated in close collaboration with all actors involved, from the livestock farmers up to policy makers and citizens.

The aWISH project is funded by Horizon Europe and will run from the 1st of November 2022, for 4 years in total. The project is led by ILVO (Flanders Research Institute for Agriculture, Fisheries and Food, Belgium) and has 24 partners from 13 European countries. At the core of the project are 6 regional broiler and pig production chains or pilots, spread across Europe where the aWISH developments will be tested and validated.

Please visit the webpage for more details:

<https://www.awish-project.eu/>

*Enhancing poultry biosecurity & health management
through capacitating farmers, veterinarians & researchers
in Central & Northern Ethiopia:
towards improvement of poultry productivity*



Prof. J. Paeshuyse is involved in a project to enhance poultry biosecurity and health management through capacitating farmers, veterinarians and researchers in Central and Northern Ethiopia: towards improvement of poultry productivity.

Poultry production is one of the main livestock subsectors that contribute to the national agricultural GDP of Ethiopia. It requires little investment and space to start and plays important roles in generating employment opportunities, improving family nutrition, and empowering women. This project aims to improve poultry productivity by addressing three focal points.

- ♦ The first area focuses on capacitating the farmers, farm attendants, and veterinarians with regard to biosecurity, poultry flock health management, husbandry practices, and in-time outbreak reporting.
- ♦ The second focus area will be production of laboratory reagents that was started by the KEET joint project in 2019 (by this project promoters) to supply laboratories (government and private) for the betterment of research and diagnosis of poultry diseases.
- ♦ The third focus area will be research targeting the four common diseases and biosecurity assessment of the farms using biocheck.UGhent tool kit (<https://biocheckgent.com>).

DIGIT-REAL-Huhn



In this German Federal Research project, a Farmer Assistance System (FAS) for broiler herds was tested in practice. It is a continuously working digital system that enables the farmer to get a detailed insight into the differences in barn climate, noise levels, distribution of birds on the floor and on elevated environmental enrichment element. It can detect dead birds and recognizes signs of altered bird faeces in the barn.

An optimally controlled barn climate throughout the barn is a prerequisite for avoiding oxidative stress in the animals. Oxidative stress has a negative effect on many bodily functions, immune defence, muscle fibre and animal performance.

FAS is a suitable instrument here to identify deviations early and in a targeted manner in order to initiate suitable remedial measures. Environmental enrichment elements improve animal health and welfare without negatively impacting animal performance.



Educational programme



Call to give on-line lecture on "PLF technology commercialisation" at the Taiwan National University

The Taiwan National University is looking for commercial companies (that successfully or unsuccessfully tried to commercialise PLF technologies) and are keen to share their experiences as part of an on-line University course. The University is equally interested hearing success stories but also VERY interested hearing about 'failures' and/or problems. The University is keen to give student a realistic view on PLF technology commercialisation with all the trials and tribulations! A modest honorarium will be paid for a lecture that can be as short as an hour or could potentially go for 2 X 1 hour. The lecture can be either delivered on-line or sent as recording.

***Please contact our ISAH member
Prof. Dr. Thomas Banhazi for more information:
thomasbanhazi@ntu.edu.tw***

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News from the Treasurer

Join ISAH:
*become a member of a community of science
& a circle of lifelong friendship*



Scientists, veterinary practitioners and other persons with a special interest in the field of Animal Hygiene are cordially welcome to become a member of the International Society for Animal Hygiene.

Entering the society is absolutely easy! Just send an informal email to the ISAH Secretary and upon receiving of the invoice pay the annual membership fee of 20 Euros for the respective calendar year. Alternatively, you can also use our entry form on the Society's web page (www.isah-soc.org).

The ISAH membership fee is effective from the 1st of January and is to be renewed by 31st of December to extend the membership for the following year. Members who pay their fee in due time are eligible for a discount on the congress fee for the upcoming ISAH congress in that year.

An advance reminder! Only those who will have fully paid their membership in 2024, will be eligible for the ISAH member discount at the 21st ISAH Congress, Chiang Mai, Thailand – 2024!

Membership fee can currently be paid only by money transfer. Alternatives are currently explored and might become available in the future.

Please visit our webpage for more details:

<https://www.isah-soc.org/?Members/Membership-fee>

Gentle Payment Reminder



Thank You

ISAH would like to thank all those members who have dutifully paid their membership fee for the current year!

We are truly grateful for your contribution!

Please

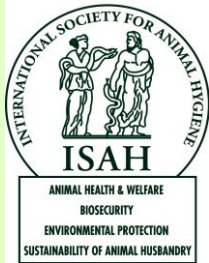
All others we would kindly like to remind to check their balance and settle outstanding dues as soon as possible. If your fees are overdue please contact ISAH'S Treasurer for an invoice and pay the amount due. If you are late with your 2023 payment, please expect to get a reminder soon.

Thank you!

ISAH's Treasurer wishes you relaxing mid-year holidays!

Stay safe and have a great summer!





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Publications

Of interest from ISAH members

About animal health & welfare

- ▶ Pavlenko A., Kaart T., Lidfors L., Arney D.R., Aland A. In press. Changes in dairy cows' behaviour, health, and production after transition from tied to loose housing. *Acta Veterinaria Scandinavica*, 2023.
- ▶ Woldemariyam F, Paeshuyse 2023 Viral Protein 1 (VP1) Sequence-Based Genetic Diversity of SAT 2 FMDV Circulating in Ethiopia from 1990 to 2015. *J. Vet Med (Auckl)*. 14:91-101.

About antimicrobial use & resistance

- ▶ Babu Rajendran N., Arieti F., Mena-Benítez C.A., Galia L., Tebon M., Alvarez J., Gladstone B.P., Collineau L., De Angelis G., Duro R., Gaze W., Göpel S., Kanj S.S., Käsbohrer A., Limmathurotsakul D., Lopez de Abechuco E., Mazzolini E., Mutters N.T., Pezzani M.D., Presterl E., Renk H., Rodríguez-Baño J., Săndulescu O., Scali F., Skov R., Velavan T.P., Vuong C., Tacconelli E., Adegnika A.A., Avery L., Bonten M., Cassini A., Chauvin C., Compri M., Damborg P., De Greeff S., Del Toro M.D., Filter M., Franklin A., Gonzalez-Zorn B., Grave K., Hocquet D., Hoelzle L.E., Kalanxhi E., Laxminarayan R., Leibovici L., Malhotra-Kumar S., Mendelson M., Paul M., Muñoz Madero C., Murri R., Piddock L.J.V., Ruesen C., Sanguinetti M., Schilling T., Schrijver R., Schwaber M.J., Scudeller L., Torumkuney D., Van Boeckel T., Vanderhaeghen W., Voss A., Wozniak T. 2023. EPI-Net One Health reporting guideline for antimicrobial consumption and resistance surveillance data: a Delphi approach. *The Lancet Regional Health - Europe* 26, 100563.
- ▶ Barraud O., Laval L., Le Devendec L., Larvor E., Chauvin C., Jouy E., Le Bouquin S., Vanrobaeys Y., Thuillier B., Lamy B., Baron S. In press. Integrons from *Aeromonas* isolates collected from fish: a global

indicator of antimicrobial resistance and anthropic pollution. *Aquaculture*, 2023.

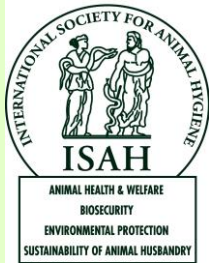
- ▶ Laurentie J., Mourand G., Gripon P., Furlan S., Chauvin C., Jouy E., Serron P., Kempf I. 2023. Determination of Epidemiological Cutoff Values for Antimicrobial Resistance of *Enterococcus cecorum*. *Journal of clinical microbiology* 61, e0144522.
- ▶ Mallioris P., Teunis G., Lagerweij G., Joosten P., Dewulf J., Wagenaar J.A., Stegeman A., Mughini-Gras L., Graveland H., Schmitt H., Mevius D., Van Essen A., Gonzalez-Zorn B., Moyano G., Sanders P., Chauvin C., David J., Battisti A., Caprioli A., Blaha T., Wadepohl K., Brandt M., Aarestrup F., Hald T., Duarte S., Wasyl D., Krasucka D., Biernacki B., Szumilo J., Daskalov H., Saatkamp H., Stärk K. 2023. Biosecurity and antimicrobial use in broiler farms across nine European countries: toward identifying farm-specific options for reducing antimicrobial usage. *Epidemiology and infection* 151, e13.

About pig production & animal hygiene

- ▶ Andraud M., Hervé S., Gorin S., Barbier N., Quéguiner S., Paboeuf F., Simon G., Rose N. 2023. Evaluation of early single dose vaccination on swine influenza A virus transmission in piglets: From experimental data to mechanistic modelling. *Vaccine* 41, 3119-3127.
- ▶ Z. Liua, X. Zhang, B. Ji, T. Banhazi, C. Lia, S. Zhaoa (2023) Analysis of diurnal variations in body weight of wean-to-finish pigs *Biosystems Engineering* 228(2):80-87 - <https://doi.org/10.1016/j.biosystemseng.2023.02.010>

About poultry production & animal hygiene

- ▶ Mousqué S., Mocz F., Riber A.B. 2023. Validation of Methods for Assessment of Dust Levels in Layer Barns. *Animals: an open access journal from MDPI* 13, 783.



- ▶ Niqueux É., Flodrops M., Allée C., Lebras M.O., Pierre I., Louboutin K., Guillemoto C., Le Prioux A., Le Bouquin-Leneveu S., Keïta A., Amelot M., Martenot C., Massin P., Cherbonnel-Pansart M., Briand F.X., Schmitz A., Cazaban C., Dauphin G., Delquigny T., Lemièrre S., Watier J.M., Mogler M., Tarpey I., Grasland B., Eterradosi N. 2023. Evaluation of three hemagglutinin-based vaccines for the experimental control of a panzootic clade 2.3.4.4b A(H5N8) high pathogenicity avian influenza virus in mule ducks. *Vaccine* 41, 145-158.
- ▶ Lyimu WM, Leta S, Everaert N, Paeshuyse J. 2023 Influence of Live Attenuated Salmonella Vaccines on Cecal Microbiome Composition and Microbiota Abundances in Young Broiler Chickens. *Vaccines (Basel)*. 11(6):1116.
- ▶ Spieß, F., Reckels, B., Sürie, C., Auerbach, M., Rautenschlein, S., Distl, O., Hartung, Jan Berend Lingens, J.B., Visscher, C. (2022): An evaluation of the uses of different environmental enrichments on a broiler farm with the help of Real-Time monitoring via a Farmer-Assistant System. *Sustainability* 2022, 14(20), 13015; <https://doi.org/10.3390/su142013015>
- ▶ Spieß, F., Reckels, B., Abd-El Wahab, A., Ahmed, M. F. E., Sürie, C., Auerbach, M., Rautenschlein, S. Distl, O., Hartung, J., Visscher, C. (2022): The influence of different types of environmental enrichment on the performance and welfare of broiler chickens and the possibilities of Real-Time Monitoring via a Farmer-Assistant System. *Sustainability* 2022, 14, 5727. <https://doi.org/10.3390/su14095727>.

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Forthcoming events

*Joint International Congress on Animal Science
co-organised by the
European Federation of Animal Science (EAAP)
World Association for Animal Production (WAAP)
& Interbull*



For decades, the Annual Meeting has hosted scientists and experts from the field of animal science, not only from Europe but also from other countries around the globe. The EAAP Congress provides insights into the latest research results from many areas of animal science. It is a unique opportunity for scientists and industry to acquire new knowledge and to exchange experience. Carried out through many sessions, plenary meeting, a poster presentation, and discussions about scientific achievements in the European and world livestock production, Annual Meeting gives an opportunity for the application of new ideas in practice. All these preferences make the EAAP one of the largest animal science congresses in the world – approximately 1000 participants from more than 50 countries are expected. Next year it will be joined to the WAAP and Interbull congresses.

The general topic of this Congress will be “Climate change, biodiversity and global sustainability of animal production”. Different sessions will be jointly organised between the EAAP, WAAP, Interbull and also other partners to cover various areas of knowledge related to animal science, such as genetics, nutrition, physiology, animal health and welfare.

They will be held in Lyon (France) from **26th of August to 1st of September**.

Interested in the congress?

Please visit the dedicated webpage:

<https://eaap2023.org/>

Workshop "Food and Feed for the Future" sponsored by OECD CRP



INRAE, CSIRO and AFZ (French association for animal production) are holding a workshop sponsored by the OECD Co-operative Research Programme: Sustainable Agricultural and Food Systems. This workshop targets all stakeholders who aim at understanding and forecasting the future of feed and food whether they are potential actors of change or have to deal with the constraints and opportunities generated by such changes with the responsibility of feeding increasing human populations with lower impact on the resources.

This workshop will address the following questions:

- ◆ How will the global need for protein be met combining ethical and sustainable agriculture with microbial bioproduction?
- ◆ Can microbial bioproduction be considered safe, resilient and non-competitive with land farming?
- ◆ What are the modern nutritional approaches to healthy production of animal and human diets in a resource-and carbon-constrained world?
- ◆ What are the socio-economic issues of future sustainable agricultural systems?
- ◆ How to address the ethical/societal acceptance challenge of food and feed microbial/tissue bioproduction?

Want to know more? Please visit the webpage:

<https://oecdfoodandfeed.sciencesconf.org/>

22nd World Veterinary Poultry association (WVPA)



The World Veterinary Poultry Association (WVPA) Congress is holding its congress from September 4th to 8th 2023 at Veronafiere, in Verona, Italy. The Congress will cover all areas of poultry veterinary science, from subject topics such as infectious and parasitic diseases to topical themes such as prudent use of antimicrobial agents, zoonoses, food safety, welfare and sustainability which will be shared and discussed by global experts and recognized scientists in this field. It will attract a wide range of delegates, including both poultry research scientists and practitioners, and will include leading speakers from across the world and it is expected that delegate numbers will confirm the success of the past editions.

Interested in getting more information? Please follow this link:

<https://www.wvpac2023.com/>



Don't miss all these events scheduled in 2023!!!

The Newsletter is sent to all ISAH Members. You are all invited to submit information for the newsletter. Please send information, news, text, photos and logo to: christelle.fablet@anses.fr

Production staff: ISAH Executive Board