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**International Society
for Animal Hygiene**

N° 013 - 2023

SUMMARY

Dear members and friends of ISAH,

As the year 2023 draws to a close in a few weeks' time, ISAH is coming back to you with its newsletter to inform you of ISAH's activities over the last few months and to look ahead to the new events on animal hygiene, animal health and welfare and the environment already scheduled for 2024.

Hot topics today relate to:

- letter from President,
- latest news from the Executive Board and ISAH members,
- announcements of interesting congresses and meetings.

Publications related to the Society are presented in the end of this issue; please visit the associated pages.

We also take the opportunity to ask you kindly for checking the status of your membership fee. Please look on page 14 for details how to pay the membership fee.

***The 21st ISAH congress will be held in Chiang Mai, Thailand
from 16th to 20th September 2024.***

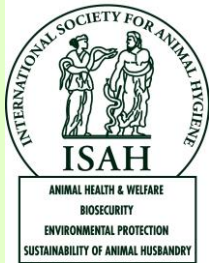
***Don't miss this unique opportunity in 2024 to meet the ISAH circle of
influence!!!***

*Stay healthy by applying the principles and good practices delivered by Hygiea, the
goddess of health.*

May this New Year bring joy, good health, success and peace to all people on Earth.

Enjoy reading the Newsletter of your Society!

Dr Christelle Fablet - General Secretary of ISAH



Contents

- *Editorial*

- *News from the Society*

- *Publications*

- *Forthcoming events*

EDITORIAL

By the President

Dear ISAH members, colleagues and friends,

close to Christmas and the turn of the year, we are looking back on the past 12 months.

Unfortunately, the many conflicts in the world are still dominating the headlines. The terrible war in Ukraine, where our good wishes and hopes are with our friends and ISAH members in Ukraine. The conflict in the Middle East, which has been going on for decades, even centuries, and which in recent months has once again brought such immense suffering to the people of Israel and the Gaza Strip. Unfortunately, there are no quick, fair solutions in sight, but we should stand up for them vigorously and pray for them.

The consequences of climate change are also becoming more and more noticeable worldwide. But at least in this area, a large majority now seems willing and committed to taking resolute steps towards an energy transformation and a more sustainable economy overall. So that we can hand over a world worth living in to our children and grandchildren. Sustainable agriculture and animal production play a crucial role in combating deforestation, groundwater contamination and water shortages.

In the context of our ISAH, in addition to sustainable animal production, the two epidemics of avian influenza and African swine fever, which are unfortunately still spreading, must certainly be mentioned. ASF kills millions of domestic pigs and wild boars. AI is not only a very heavy burden for livestock farmers, AI is meanwhile bringing many wild bird species close to extinction. But at least in our livestock herds, we have the necessary, effective tools in our toolbox to keep these diseases outside the stables and combat them successfully. Biosecurity, cleaning and disinfection. Intensive research is being carried out worldwide on the development of vaccines and this will also



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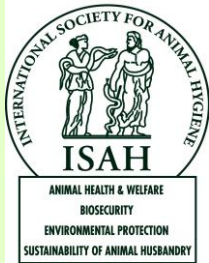
N° 013 - 2023

be successful in the future. Hygiene sometimes seems a little out of date, but ultimately it is the simple principles of hygiene that are always very difficult to maintain consistently and at the same time are so very successful.

Our upcoming congress, the **ISAH 2024 in Chiang Mai, Thailand**, will enable an exchange on current developments in animal husbandry, animal diseases, animal hygiene, animal welfare and environmental protection in animal husbandry. The organisation team there is currently making great efforts to organise a fantastic congress and is already looking forward to welcoming ISAH members from all over the world. We are very much looking forward to meeting you all there, exchanging scientific ideas and spending a wonderful time together in a beautiful country!

**I wish you all
a blessed and Merry Christmas &
a happy, healthy & successful New Year 2024.**

Uwe Rösler
in the name of the ISAH-Executive Board



Members area

Christmas card & new year wishes

Dear friends and colleagues,

we wish you a merry and healthy Christmas and a peaceful world, and personally lots of success, happiness and good luck in 2024.

The world is in turmoil these days. The Russian aggression on Ukraine continues. No end of cruelties in the Palestine conflict between Israel and Arabic and Islamic neighbours. The climate crisis is rising with too many people on the planet destroying flora and fauna and wasting too much of the earth's resources.

The painting of Gabriele and my poem entitled "Weltenbrand" – "Global Conflagration" come from the fourth part of Richard Wagner's Ring of the Nibelungs "Götterdämmerung" – "end of civilisation", when heaven (Walhalla) burns, the gods fall and the (old) world collapses.

Let us as never lose the hope that may come from heavenly enlightenment.

Jörg & Gabriele Hartung



**Dem Weltenbrand zum Trotz
- Weihnachten 2023 -**

Es quälen sich Menschen und Tiere,
tödlich tobt Kriegeswut.
Die Hitze bricht alle Rekorde,
Dürren bringen den Tod.

Flammen verschlingen die Wälder.
Das Korn verdorrt schon am Halm.
Die Wasser der Brunnen versiegen.
In der Luft liegt beißend der Qualm.

In Bombennächten Entsetzen.
Der Angstmund geöffnet zum Schrei.
Wer endet Zerstörung und Leiden?
Wer kann uns Menschen befrei'n?

Schon droht der Fluch der Verwüstung.
Die Hoffnung scheint ewig verlör'n.
In Stürmen versinken die Inseln.
Da ward uns ein Kind gebor'n.

***Frohe Weihnachten 2023
und ein gesundes Neues Jahr***

**Defying the global conflagration
- Christmas 2023 -**

In pain are man and creatures
War deadly rage the world
heat waves are breaking all records
Droughts bring death and woe.

Flames engulf the forests.
Grain withers on the stalk.
The wells fall dry, lack water.
The lungs breathe acrid smoke.

In bombing nights, sheer horror.
From open mouths, screams fear.
Who ends destruction and suffer?
Who sets us humans free?

The curse of destruction looms near.
Islands are sinking in storm.
All hopes seem lost forever
- until us a child was born.

***Merry Christmas 2023
and a healthy New Year!***

Contents

- Editorial
- News from the Society
- Publications
- Forthcoming events

News from the Society

Some activities of ISAH members in recent months

ISAH honours Professor Dr. Roman Kolacz



Presentation of the certificate for ISAH Honorary Membership

In a small ceremony on the occasion of the 20th Scientific Conference "Ethical and legal aspects of animal welfare protection", held October 2-3, 2023 in Torun, Poland, former President of the International Society for Animal Hygiene (ISAH), Univ.-Professor Dr. Dr. h. c. mult. Jörg Hartung, presented Professor Dr. Roman Kolacz from Wroclaw University of Environmental and Life Sciences (WUELS) the certificate of honour and appointed him as Honorary Member of ISAH in the name of the Executive Board of ISAH "for his long-lasting support of ISAH congresses and his dedicated work in animal hygiene and related scientific areas".



Professor Roman Kolacz during his acceptance speech

During the conference Professor Kolacz looked back to 20 years of organizing the successful conference series on "Animal Welfare" topics at Nicholas Copernicus University of Toruń and at the same time to the 50th anniversary of his professional life as veterinarian and scientist.



Janusz Wojciechowski, European Union Commissioner for Agriculture and Rural Development during his guest lecture

A highlight of the conference was the guest lecture delivered by Janusz Wojciechowski, European Union Commissioner for Agriculture and Rural Development who spoke about future developments in European Union Agriculture and livestock production.



Celebrations of ISAH members

On December 3, the Honorary President of ISAH, Professor Emeritus Dr. Dr.h.c. Ingvar EKESBO celebrated his 95th birthday.



Professor Emeritus Dr. Dr.h.c. Ekesbo in front of the painting offered by the society when he had his 90th birthday



*The Society congratulates him cordially and wishes him good health & many happy experiences in the future, having in mind the words of the designer of Guggenheim Museum Frank Lloyd Wright:
"The longer I live the more beautiful life becomes."*



Celebrations of Institutes from ISAH members



The Estonian University of Life Sciences, where ISAH's standing Vice President, Associate Professor Dr Andres Aland, works, is celebrating the 175th anniversary of veterinary education in Tartu, Estonia.

... A little bit of history ...

On 26 January 1848, the founding document of the Tartu Veterinary School, the predecessor of the current Institute of Veterinary Medicine and Animal Sciences of the Estonian University of Life Sciences, was signed. This date marks the birth of both the educational institution and Estonian veterinary education and research. 175 years have passed since Tartu has taught veterinarians and carried out research in the field of veterinary medicine.

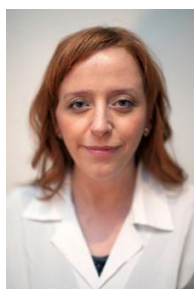
The first patient was received by Professor Peter Jessen, a German veterinarian, the first director of the Tartu Veterinary School, on 13 October 1848 at the clinic located next to the today's main building of the University of Tartu. A one-year-old colt was diagnosed with an injury of hoof flexors.

Despite of difficult circumstances at times, veterinary medicine has been taught without major interruptions, although in the middle of the 19th century as well as in the 1920s and 1990s, the question of the terminating teaching of veterinary medicine in Estonia has been under discussion. At first, the educational institution was independent for 70 years, followed by about three decades as a faculty of University of Tartu, and the last 75 years a faculty and finally an institute at EMÜ. The general name of Tartu veterinary higher educational establishment has been used to denote the permanently operating veterinary medical institution throughout the history.

Long life to the Estonian University of Life Sciences!



Nominations



Ass. Prof. Dr Gabriela Gregová

Dr Gabriela Gregová, Country Representative for Slovakia, was habilitated in the field of study "Animal hygiene and protection of the environment" at the University of Veterinary Medicine and Pharmacy in Košice (Slovakia) and became an associated professor.

Congratulations to her!



ISAH event

21st ISAH Congress in Chiang Mai, Thailand



16th to 20th September 2024

Save the date!

**The motto of the 21st ISAH Congress, organised and hosted by
Chaing Mai University, is:**

"One Health in Action

**Innovation in Health, Welfare & Environment
for a Sustainable Animal Production"**

**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.**

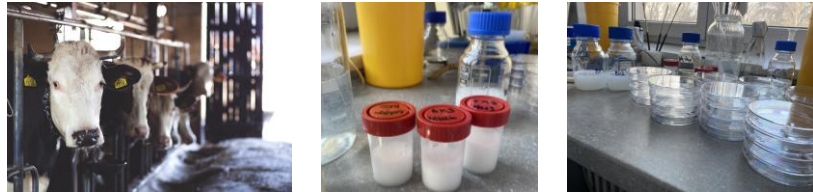
**The Congress is also a unique opportunity for industry acquire
new knowledge as well as to exchange experiences with the
scientific community of ISAH.**

Conference website: <https://isah2024.vet.cmu.ac.th/isahcmu>



News from research projects

Raw milk as a potential source of multidrug-resistant bacteria and resistance genes, a bilateral project involving Serbian & Slovenia research teams



Marija Kovandžić, an active young member of ISAH and junior researcher at the Faculty of Veterinary Medicine of Belgrade, is involved in a new project launched in July 2023.

Given the importance of antimicrobial resistance as a global health problem, there is a constant need to find the ideal model for antimicrobial resistance monitoring in different ecosystems. The relevance of this project is reflected in the fact that in both countries this would be the first study in which raw milk would be used as such model on dairy farms. Although milk is potentially the most suitable model for monitoring antimicrobial drug resistance on dairy farms, these analyses are not performed routinely and there are no established protocols.

The objectives of the project are:

- ♦ comparison and harmonization of protocols for Multidrug-resistant bacteria isolation
- ♦ harmonization of DNA extraction protocols from milk samples
- ♦ evaluation of dairy cows as a potential reservoir of resistant bacteria
- ♦ comparison of dairy farms in terms of resistance gene burden between Slovenia and Serbia
- ♦ introduction of qPCR and dPCR assays for the selected resistance genes
- ♦ training and exchange of experience in the field of dairy research
- ♦ publication of scientific contributions at conferences and papers in international journals
- ♦ dissemination of results and newly acquired knowledge to students at both faculties
- ♦ informing the public about the important results of the project

The project is conducted by Serbian and Slovenian research teams and will last for two years.

Good luck with this project and stay tuned for the results!

Looking for partners for your upcoming research projects?

You may find opportunities for collaborating with the institutes and organizations in which our ISAH country's representatives (CR) are based. In this newsletter, Dr. Hanne Kongsted CR for Denmark and Prof. Dr Darem Tabbaa CR for the Syrian Arab Republic, report on their team's recent research activities. If you share similar research interests, please feel free to contact them to explore potential collaborations and projects. They would welcome the opportunity to connect with like-minded researchers.



- ♦ The Department of Animal and Veterinary Sciences (ANIVET) at Aarhus University in Denmark conducts fundamental, strategic, and practical investigations into matters related to the welfare, nutrition, and care of domestic animals, livestock and humans. ANIVET comprises five research units, multiple thematic groups, noteworthy laboratory and experimental resources and a secretarial team. The Department has extensive experimental facilities and a large number of staff to undertake the care of animals and experimental activities. The staff possess expertise in various disciplines such as cell biology, physiology (digestion, reproduction, growth, lactation, stress, organ and production physiology), applied analytical chemistry and biochemistry, nutrition, microbiology, reproductive biology and technology, embryology, immunology, biomarkers in clinical chemistry and biomodelling, pathobiology, pain biology, ethology, veterinary epidemiology, herd diagnostics, production management and animal health economics. To this, the necessary competencies for performing research at experimental facilities should be included.

Interested in getting more information? Please click on this link

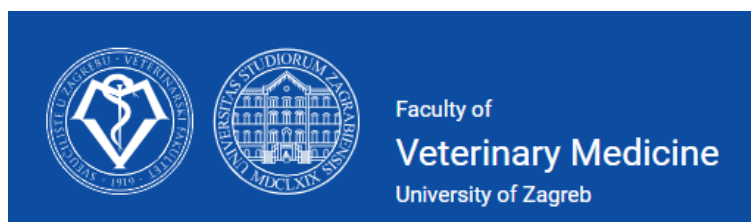
<https://anivet.au.dk/en>



- ♦ The Faculty of Veterinary Medicine at the University of Hama is the first and most important of its kind in Syria, which supplies all government agencies, institutions and private companies working in the field of animal hygiene, food security, comparative medicines and all other veterinary medical subjects, with qualified veterinarians. The Faculty has witnessed distinguished interest at the international level, as the International Food and Agriculture Organization (FAO) contributed to its establishment, and many international projects were held in it in cooperation with the International Atomic Energy Agency (IAEA), the German Foundation for International Cooperation (GTZ), the Japanese International Cooperation Agency (JICA), and the International Atomic Energy Association (IAEA).



Educational programme



The faculty of Veterinary Medicine, University of Zagreb launched two postgraduate master studies in English: Farm Biosecurity (Head of the study: Prof. Kristina Matković, PhD) and Farm Animal Welfare (Head of the study: Assoc. Prof. Mario Ostović, PhD).

More information about the studies are available here:

<https://www.vef.unizg.hr/en/studying/postgraduate-master-studies/>





www.isah-soc.org

e-news

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N° 013 - 2023

News from the Treasurer

Join ISAH

*and 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 by paying the annual membership fee of 20 Euros. Alternatively, you can also use our entry form on the Society's web page (www.isah-soc.org).

ISAH membership fee is effective from the 1st of January and runs for 12 consecutive months. Members who pay their fee in due time get a discount on the congress fee for the upcoming ISAH congress in that period.

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>



News from the Treasurer

As another year comes to its end, ISAH would kindly like to reach out to you and thank all those members who have paid their membership fee for this year!

We are truly grateful for your contribution!



ISAH's annual membership fee as approved by the General Assembly is due again by January 2024.

So watch out in the early weeks of the new year for ISAH's membership invoice in your mailbox.

All those with still open dues for 2023 will get a compound invoice covering both 2023 and 2024.

Your kind contribution helps keeping the Society afloat and operational.

Thank you!

*ISAH's Treasurer wishes you a festive season, relaxing holidays
and may the new year bring you
joy, happiness, prosperity and good health
and an end to all pandemic troubles and sorrows!*

*Stay safe and remember the principles of good prevention
– keep distance, wear a mask, apply as much hygiene as possible!*



Contents

- Editorial
- News from the Society
- Publications
- Forthcoming events

Publications

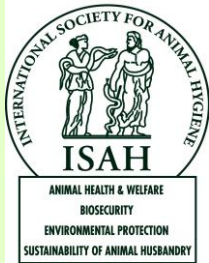
Of interest from ISAH members

About cattle production & animal health

- ▶ DANČOVÁ, N., MINDŽÁKOVÁ, I., GREGOVÁ, G., SZABÓOVÁ, T. Effect of increasing temperature on microbial contamination in cattle rearing. In The impact of global change on the environment, human and animal health. The impact of global change on the environment, human and animal health: Proceedings of scientific abstracts and contributions: International Scientific Conference. 1. edit. Košice : UVLF, 2023. ISBN 978-80-8077-789-0, s. 85-88.
- ▶ GREGOVÁ, G., SZABÓOVÁ, T., DANČOVÁ, N., VÝROSTKOVÁ, J. The importance of environmental hygiene in the occurrence of mastitis in dairy farming (in Slovak), In HYGIENA ALIMENTORUM. HYGIENA ALIMENTORUM XLIII: Health safety and quality of dairy and vegetable commodities - current problems and trends: Reviewed collection of lectures and poster presentations.1. edit. Košice (Slovakia): UVLF, 2023. ISBN 978-80-8077-787-6, 289-294.
- ▶ MATKOVIĆ, K., OSTOVIĆ, M., BATINJAN, M., SABOLEK, I., MENČIK, S., PAVIČIĆ, Ž. (2023): Analysis of microclimate conditions in cattle barns (in Croatian). Veterinarska stanica 54(3), 335-341. DOI: 10.46419/vs.54.3.7
- ▶ PILIPČINEC, E. - KIRÁLY, J. - HAJDUČKOVÁ, V. - GREGOVÁ, G.. Prevalence of resistant isolates of *S. aureus* from the milk of dairy cows with subclinical mastitis (in Slovak). In HYGIENA ALIMENTORUM. HYGIENA ALIMENTORUM XLIII: Health safety and quality of dairy and vegetable commodities - current problems and trends: Reviewed collection of lectures and poster presentations.1. edit. Košice (Slovakia): UVLF, 2023. ISBN 978-80-8077-787-6, 527-536.

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.



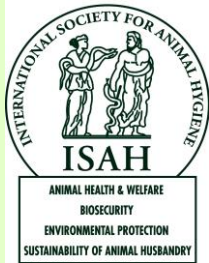
- ▶ LARIVIÈRE-GAUTHIER G., KEROUANTON A., MOMPÉLAT S., BOUGEARD S., DENIS M., FRAVALO P. 2023. Monophasic Variant of *Salmonella Typhimurium* Infection Affects the Serum Metabolome in Swine. *Microorganisms* 11, 2565.

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.
- ▶ SELLE M., SPIEB F., VISSCHER C., RAUTENSCHLEIN S., JUNG A., AUERBACH M., HARTUNG J., SÜRIE C., DISTL O. 2023. Real-Time Monitoring of Animals and Environment in Broiler Precision Farming—How robust is the Data Quality? *Sustainability* 2023, 15, 15527. <https://doi.org/10.3390/su152115527>.

About antimicrobial use & antimicrobial resistance

- ▶ BABU RAJENDRAN N., ARIETI F., MENA-BENÍTEZ C.A., GALIA L., TEBON M., ALVAREZ J., GLADSTONE B.P., et al. 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. 2023. Integrons from *Aeromonas* isolates collected from fish: A global indicator of antimicrobial resistance and anthropic pollution. *Aquaculture* 576, 739768.
- ▶ KONGSTED H., MC LOUGHLIN E.T., 2023. Lowering antibiotic usage and phasing out pharmaceutical zinc oxide in Danish pig herds: Pig farmers' and veterinarians' experiences and perceptions. *Livestock Science*, 273, 105260, <https://doi.org/10.1016/j.livsci.2023.105260>
- ▶ KOS A., PAPIĆ B., GOLOB M., AVBERŠEK J., KUŠAR D., LEDINA T., ĐORĐEVIĆ J., BULAJIĆ S. Genomic Insights into Methicillin-Resistant Staphylococci and Mammaliicocci from Bulk Tank Milk of Dairy Farms in Serbia. *Antibiotics*. 2023; 12(10):1529. <https://doi.org/10.3390/antibiotics12101529>
- ▶ 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 animal productions & environmental issues

- ▶ SZABÓOVÁ, T., GREGOVÁ, G., DANČOVÁ, N. Influence of temperature on the efficiency of wastewater treatment. In *The impact of global change on the environment, human and animal health. The impact of global change on the environment, human and animal health: Proceedings of scientific abstracts and contributions: International Scientific Conference*. 1. edit. Košice: UVLF, 2023. ISBN 978-80-8077-789-0, s. 231-234.
- ▶ GREGOVÁ, G. - DANČOVÁ, N. - MARCINČÁK, S. - SZABÓOVÁ, T. Reduction of gas emissions by addition of humic acid to the bedding material in broiler chicken housing. In *RAMIRAN 2023: Book of Abstracts of the 18th International Conference "Managing Organic Resources in a Changing Environment"*. 1. edit. London: ADAS, 2023, online, S. 210. <https://resources.rskgroup.com/view/535287122/210/>.

Hygiene & health in general

- ▶ TABBAA, D., International Health Regulations and COVID-19 pandemic, challenges and gaps. *Veterinaria Italiana*, 2020. 56(4): p. 237-244.
- ▶ MORENO E., MIDDLEBROOK E.A., ALTAMIRANO-SILVA P., AL DAHOUK S., ARAJ G.F., ARCE-GORVEL V., ARENAS-GAMBOA Á., et al. 2023. If You're not confused, You're not paying attention: *Ochrobactrum* is not *Brucella*. *J Clin Microbiol*. 2023 Aug 23;61(8):e0043823. doi: 10.1128/jcm.00438-23.

Contents

- Editorial
- News from the Society
- Publications
- **Forthcoming events**

Forthcoming events



AACTING



Herd level antimicrobial consumption in animals
Collect | Analyze | Benchmark | Communicate

4th AACTING conference

"Network on quantification of veterinary Antimicrobial usage at herd level and Analysis, CommunicaTion and benchmarkING to improve responsible usage"

The 4th AACTING Conference will take place on **1st and 2nd February 2024** in Vienna, Austria.

Previous conferences have provided researchers, policy makers, students, and other stakeholders interested in the collection, quantification, benchmarking, and reporting of animal antimicrobial use with relevant, innovative presentations and engaging meetings. The conference will address current and future challenges in this field.

Interested in getting more information?

Please follow this link:

<https://aacting.org/aacting-conferences/>



One health international symposium



The one health international symposium will allow scientists and professionals from universities, research institutes, public agencies, the private sectors and governments to meet and discuss about science covering the main One Health challenges to be faced in order to tackle infectious diseases. This international symposium will be a unique occasion to bring together animal and human health actors and have a global reflection on the transmission of infectious diseases from animals to humans.

This upcoming International One Health Symposium will take place from **12th to 14th June 2024** in Saint Brieuc, France.

Interested in getting more information? Please follow this link:

<https://www.oneh2024.fr/index.php>



Annual meeting of the European Federation of Animal Science (EAAP)



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.

The 75th annual meeting of the EAAP will take place in Firenze (Florence) from **September 1st to September 5th 2024**. The general topic of this Congress will be “Global quality: environment, animals, food”.

Different sessions will be organized and jointly organized between the eleven EAAP Study Commissions to cover various areas of knowledge related to animal science, such as genetics, nutrition, physiology, animal health and welfare, precision livestock farming, horses, pigs, insects, livestock farming, cattle, sheep and goat.

*Interested in the congress?
Please visit the dedicated webpage:*

<https://eaap2024.org/>





XVI Congress of the European Association of Thermology

Wrocław · POLAND 2024

The European Association of Thermology (EAT) and Wrocław University of Environmental and Life Sciences (WUELS) co-organised the XVI EAT Congress in Wrocław, Poland from **6th to 8th September** 2024. The EAT exists to promote, support and disseminate research in thermometry and thermal imaging in the fields of human and veterinary medicine and biology.

Key meeting themes

- Infrared thermography in biomedicine.
- Temperature measurement in animal welfare, veterinary applications and equine physiology.
- Contact temperature measurement.
- Hardware and software solutions for infrared imaging.
- Biomedical applications: surgery, neurology, vascular and pain syndromes.
- Thermometry in animal exercise physiology and rehabilitation.

Information about the Congress:

<http://www.eurothermology.org/XVICongress.html>



21th ISAH congress



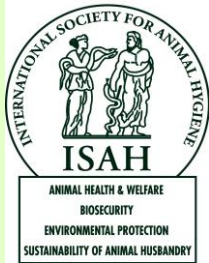
The XXI ISAH congress will be held in the Faculty of Veterinary Medicine, Chiang Mai University, Thailand **September 16–20, 2024**.
Theme: One Health in Action – Innovation in Health, Welfare and Environment for a Sustainable Animal Production.

Further details on scientific and social programme will be developed and communicated in the next months.

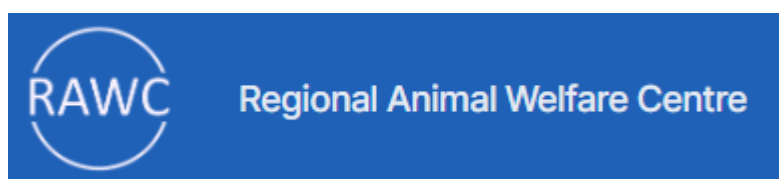
Please see the introductory video of the Chiang Mai University and Faculty of Veterinary Medicine on ISAH website:

<https://isah-soc.org/>





2nd Conference of the Regional Animal Welfare Centre



The overall mission of RAWC is to facilitate collaboration among academia, policymakers, and key regional stakeholders, assisting them in implementing best practices in the field of animal welfare on both regional and international levels.

The upcoming 2nd Conference of the RAWC will be held in Cavtat, near the historical town of Dubrovnik, Croatia, from the **14th to the 18th of October 2024**. The scientific program is currently under development.

Save the date!!!

Information about the conference will be available soon at

<https://rawc.eu/>



Don't miss all these events scheduled in 2024!!!

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

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