

33rd International Symposium

ANIMAL
SCIENCE DAYS



ASD 2025

Nitra, Slovakia :: September 23 - 26, 2025

Conference program



Tuesday 23.9.2025

8:30 - 9:00 Registration of participants

Workshop: Practical Introduction to Next Generation Sequencing Data Analysis

Vladimir Brajković, Mario Shihabi

9:00 - 10:30 Workshop - lecture

10:30 - 11:00 Coffee break

11:00 - 12:00 Workshop - lecture

12:00 - 13:00 Lunch break

13:00 - 14:30 Workshop - practical exercise

14:30 - 15:00 Coffee break

15:00 - 16:00 Workshop - practical exercise

17:00 - 20:00 Registration of Participants

Wednesday 24.9.2025

8:00 - 9:00 Registration of participants

Session: Conference Opening and Keynote Lectures

Chair: Radovan Kasarda

9:00 - 9:15 Welcome

9:15 - 9:45 Actual Trends in the Nutrition and Feeding of Non-ruminants

Branislav Gálik

9:45 - 10:15 Current Development in Companion Animals Breeding

Peter Dovč

10:15 - 10:45 Coffee break

Session: Animal Nutrition, Health and Welfare I.

Chairs: Csaba Szabó, Martina Pšenková

10:45 - 11:00 Advancing Sustainable Forage Systems: Evaluation of Cereal-Based Mixtures Through NIR and Chemometric Tools

Antonella Latrofa, Sarah Currò, Nadia Guzzo, Jacopo Bisello, Valerio Bondesan, Lucia Bailoni

11:00 - 11:15 Morphological response of small intestine to probiotic *Levilactobacillus brevis* in weaned piglets challenged with Fumonisin B₁

Lucy Ikanya, Melinda Kovács, Veronika Halas

11:15 - 11:30 Meta-analysis of turkeys' response to dietary lysine, methionine and metabolizable energy concentrations, ratios and intakes

Márta Horváth, Csaba Szabó

11:30 - 11:45 The effect of the presence of fumonisin mycotoxin and bacterial isolates in feed on bacterial composition, SCFA content and pH of pig caecum

Viktória Varga-Szalmáry, Balázs Libisch, Brigitta Bóta, Patrik Gömbös, Dóra Péterfi-Szabó, Tibor Keresztény,

Ferenc Olasz, Melinda Kovács, Éva Varga-Visi

11:45 - 12:00 Dried rose petal agro-waste in rabbit nutrition: effect on growth performances

Francesco Vizzarri, Aneta Kišová, Tomáš Sládeček, Desislava Vlahova-Vangelova, Michaela Ivanova

12:00 - 12:30 Poster session

P.01 Assessment of body weight and hepatorenal organ weights in rats exposed to Fumonisin B₄

Edward Agyarko, Ali Omeralfaroug, Tibor Bartók, Levente Horváth, Melinda Kovács, András Szabó

P.02 The Effect of Feeding Time on Egg Quality in Heat-Stressed Laying Hens

Serdal Dikmen, Yaren Ozkaraca, Enver Çavuşoğlu

P.03 Effects of Light Source, Cage Tier, and Hen Age on Egg Quality Traits in Nick Chick White Layers

Gülsüm Tünaydin, Bilgehan Yılmaz Dikmen

P.04 Protein Expression Analysis of Quail Liver under Starvation, Refeeding, and Low-Energy Diet Conditions

Doha Khalifeh, Gabriella Gulyas, Gergő Kalló, Éva Csősz, Levente Czeglédi

P.05 Relationship of fructose, magnesium and calcium in the seminal plasma of different bovine breeds

Michal Ďuračka, Filip Benko, Marek Helczman, Anton Kováčik, Peter Ivanič, Eva Tvrdá

P.06 Breed-Specific Biochemical Differences in Seminal Plasma of Holstein, Simmental, and Limousin bulls

Filip Benko, Anton Kováčik, Marek Helczman, Michal Ďuračka, Peter Ivanič, Eva Tvrdá

P.07 Mitigating Enteric Methane Emissions in Lactating Cows: Impacts of Cooling Systems under Summer Heat Stress

Serdal Dikmen, Yaren Ozkaraca

P.08 Hyalomma ticks as prominent vectors of Crimean-Congo haemorrhagic fever: Should we be worried about them in Europe? A review

Bawan Mustafa Abdulrahman, Sandor Szekeres, Gabor Nagy, Agnes Csivincsik

12:30 - 13:30 Lunch break/ Registration of participants

Session: Livestock Farming Systems I

Chair: Vesna Gantner, Martin Janíček

13:30 - 13:45 The model calculation of cost compensation related to predation by large carnivores in livestock farming in Slovenia

13:45 - 14:00	<i>A. Cividini, S. Kavčič</i> Sustainability priorities in beef cattle farming: first insights from a farmer exploratory survey in the Veneto Region (Italy) <i>Caterina Marcon, Alessio Menini, Luisa Magrin, Alice Stiletto, Elisa Giampietri, Flaviana Gottardo, Samuele Trestini</i>
14:00 - 14:15	Deep litter – the optimal model of pig keeping in Croatia?! <i>Vladimir Margeta, Dalida Galović, Kristina Gvozdanović, Ivona Djurkin Kušec, Jakov Jurčević, Ivana Prakatur, Goran Kušec</i>
14:15 - 14:30	Greenhouse gas emission intensity of lamb production in two Slovenian sheep breeds <i>Marko Bizjak, Angela Cividini</i>
14:30 - 14:45	What if tie-stall housing were banned? Implications for mountain livestock farming and grassland use in North-Eastern Italian Alps <i>Rigo F., Magrin L., Gottardo F., Cozzi G.</i>
14:45 - 15:00	Poster session
P.09	Impact of calving interval on milk production traits and somatic cell count in population of the Slovak Spotted dairy cows <i>Bujko Jozef, Candrák Juraj, Strapák Peter, Vavrišinová Klára, Kasarda Radovan</i>
P.10	Assessment of Neonatal Lamb Vitality Using a Modified Apgar Method <i>Martin Janíček, Martina Pšenková, Mária Mičiaková</i>
P.11	Application of 3D geometric morphometrics in horse breeding <i>Maja Gregič, Tina Bobić, Vesna Gantner</i>
P.12	Environmental assessment of antibiotic emissions in Simmental cows: quantification and risk analysis <i>Boris Ljubojević, Zvonimir Steiner, Vesna Gantner</i>
15:00 - 15:30	Coffee break
Session: Animal Genetics and Genomics I.	
Chair: Luboš Vostrý, Nina Moravčíková	
15:30 - 15:45	Machine learning approach in cell-type annotation and differentiation analysis <i>Zorc Minja, Levatic Jurica, Đeroski Sašo, Dovc Peter</i>
15:45 - 16:00	Genetic parameters of resilience indicator traits and their correlations with production, health and fertility traits in Fleckvieh cattle <i>Muslim, M.A., Agyiri, M., Onzima, R., Costa, A., Fuerst-Waltl, B., Steininger, F., Egger-Danner, C., Mészáros, G., Sölkner, J.</i>
16:15 - 16:30	Towards Genomic Selection for Improved resistance to Gastro-Intestinal Nematodes in Goats in Uganda <i>Onzima, R. B., D. Asizua, R. P. M. A. Crooijmans, J. Sölkner</i>
16:30 - 16:45	Genetics of multiple birth rate: heritability and correlations with female fertility traits in Austrian Holstein cattle <i>J. S. Katende, B. Fuerst-Waltl, C. Fuerst, M. Santinello, A. Costa, G. Mészáros, M. Penasa</i>
16:45 - 17:00	Differential regulation of Genes by arginine in Japanese quail <i>Mequanint Gashew, Fadella A. Nur, Eman Abdelbary, Sawadi F. Ndunguru, Gebrehaweria K. Reda, Gabriella Gulyás, Renáta Knop, Brigitta Csernus, Csaba Szabó, Ádám Z. Lendvai, Levente Czeglédi</i>
17:00 - 17:30	Poster session
P.13	Phenotypic relationship between residual carbon dioxide and residual feed intake in Austrian dairy cows <i>Sarah-Joe Burn, Daniel Moser, Birgit Fuerst-Waltl, Thomas Guggenberger, Andreas Steinwider, Christa Egger-Danner, Werner Zollitsch</i>
P.14	Phenomics in Meat Science: Toward Predictive Pork Quality and Precision Grading <i>G. Kušec, I. Djurkin Kušec, K. Gvozdanović, V. Margeta</i>
P.15	Is twin calving in Italian Holsteins genetically associated with milk production traits in the subsequent lactation? <i>J. S. Katende, M. Santinello, A. Costa, F. Galluzzo, M. Marusi, R. Finocchiaro, M. Cassandro, M. Penasa</i>
P.16	Genome-wide copy number variation regions in Asian Zebu cattle <i>Tafara Kundai Mavunga, Johann Sölkner, Gábor Mészáros, Farai Catherine Muchadeyi, Rudolf Pichler, Yosra Ressaissi, Maano Bryton Malima, Mario Barbato, Kathiravan Periasamy</i>
P.17	Breeding systems in the Czech beef population <i>Krupová Z., Krupa E., Brzáková M., Veselá Z., Malát K.</i>
P.18	Genomic parameters of the sows reproductive interval traits by using original and transformed data <i>Krupa E., Žáková E., Krupová Z.</i>
P.19	Longevity analysis of the Danubia Alba rabbit <i>János Posta, Csongor Demeter, Máté Sándor, Zsolt Gerencsér, Zsolt Matics, Zoltán Németh</i>
P.20	Estimation of genetic parameters of milk production in Slovak dairy sheep <i>Ján Tomka, Ján Huba, Ivan Pavlík</i>

Thursday 25.9.2025

Session: Animal Nutrition, Health and Welfare II.

Chairs: Danijel Karolyi, Mária Mičiaková

8:30 - 8:45	Assessing the impact of water temperature on protease enzymatic activity in hybrid African catfish (<i>Clarias gariepinus</i> x <i>Heterobranchus longifilis</i>) <i>Nazly Yolieth Martin-Culma, Péter Bársony</i>
8:45 - 9:00	Connectedness of reproductive technique and veterinarian treatment type of Holstein-Friesian cows <i>Eszter Tóth, János Posta, József Rátky, Renáta Knop</i>
9:00 - 9:15	Breed-Related Variations in Semen Proteins Composition of Dairy, Meat, and Dual-Purpose Bovine Breeds <i>Sara Ataei-Nazari, Filip Benko, Michal Ďuračka, Anton Kováčik, Peter Ivanič, Eva Tvrda</i>
9:15 - 9:30	Effect of Hoof Disorders on Milk Production and Behaviour of Holstein Dairy Cows <i>Mária Mičiaková, Martin Janíček, Martina Pšenková, Eva Strapáková, Peter Strapák</i>
9:30 - 9:45	Changes in some small intestinal parameters in finishing pigs during heat stress <i>Orsolya Csötönyi, Ágnes Baráth, László Sarkadi, Ádám Kovács, Jázmin Hertelendy, Kesete Goitom Tewelde, Nikoletta Such, Annamária Tischler, Veronika Halas</i>
9:45 - 10:00	Fumonisin B ₁ at low or high levels for a short period induced modifications in rats: focus on the liver <i>Omeralfaroug Ali, András Szabó, Mária Péter, Gábor Balogh, Zsolt Török, Zoltán Kóta, László Vígh, Botond Timár, Tibor Nagy, Edward Agyarko, Melinda Kovács</i>
10:00 - 10:15	Poster session
P.21	The role of nutrition, minerals, and DDGS in broiler chicken farming <i>Zvonimir Steiner, Vedran Bertić, Vesna Gantner</i>
P.22	Fatty acid profile of subcutaneous fat from linseed-fed pigs: Effect of gender and carcass part <i>Danijel Karolyi, Damir Rimac, Matjaž Červek, Zoran Luković, Ana Kaić, Dubravko Škorput, Krešimir Salajpal</i>
P.23	Negative Effect of Using Bird Launchers in Training Pointing Dogs <i>Martin Fik, Jaroslav Andreji, Radovan Kasarda, Anton Kováčik</i>
P.24	Evaluation of Selected Reproductive Parameters of Rainbow Trout <i>Jaroslav Andreji, Martin Fik, Radovan Kasarda, Nina Moravčíková, Jozef Kupec, Karolína Pálešová, Daniel Rajčok</i>
P.25	Concentrations of selected chemical elements in tissues of game animals in a selected area of Slovakia <i>Martina Pšenková, Róbert Toman, Ivona Jančo, Martin Janíček, Mária Mičiaková</i>
10:15 - 10:45	Coffee break

Session: Animal Genetics and Genomics II.

Chairs: Vladimír Brajković, Minja Zorc

10:45 - 11:00	Presentation of Neogene <i>Helene Hofeneder-Barclay</i>
11:00 - 11:15	Determining Thresholds for Sample Size and SNP Density for Reliable Effective Population Size Estimation in Livestock <i>Vostrý L., Vostrá-Vydrová H., Moravčíková N., Kasarda R., Halvonik A., Hofmanová B., Cubric-Curik V., Shihabi M., Curik I.</i>
11:15 - 11:30	Preliminary report of genetic diversity of the Boric arabian horses from the Republic of Srpska <i>Biljana Rogic, Bozo Vazic</i>
11:30 - 11:45	Analysis of genomic inbreeding in Latvian local cattle breeds <i>Liga Paura, Daina Jonkus, Lasma Cielava, Didzis Dreimanis, Viktorija Nikonova</i>
11:45 - 12:00	Genetic diversity, population structure, and conservation of the Tsigai sheep in Southeastern Europe <i>Raguz, N., Jiménez López, L., Oroz, M., Oroz, M., Kasarda, R., Moravčíková, N., Shihabi, M., Stanojević, D., Vostrý, L., Orehovački, V., Cubric-Curik, V., Curik, I., Lukic, B.</i>
12:00 - 12:15	Horned versus polled: analysis of genetic diversity of the Austrian Fleckvieh cattle population <i>Franziska Böhm, Christian Fuerst, Johann Sölkner</i>
12:15 - 12:30	Poster session
P.26	Genomic analysis of the unique gene pool of the Slovak Askanian Merino <i>Moravčíková Nina, Kasarda Radovan, Adrián Halvonik, Karolína Pálešová, Ivan Pavlík, Ján Tomka</i>
P.27	Understanding the genomic background of the Austrian Mangalica pig breed <i>K.D. Arias, F. Goyache, J.P. Gutiérrez, A. Leithäusl, E. Wögerbauer, G. Mészáros</i>
P.28	Impact of inbreeding on milk production traits in Latvian local cattle breed <i>Daina Jonkus, Liga Paura, Lasma Cielava, Didzis Dreimanis, Viktorija Nikonova</i>
12:30 - 13:30	Lunch break
13:30 - 18:00	Technical tour to Slovak national horse stud farm Topoľčianky https://www.nztopolcianky.sk/en/about-us/contact
19:00 - 23:00	Gala dinner

Friday 26.9.2025

Session: Livestock Farming Systems II

Chair: Radovan Kasarda, Matteo Molin

8:30 - 8:45	The Role of Microbiota in Sustainable Animal Breeding under Climate Change <i>Msibi K., Odah E.O.</i>
8:45 - 9:00	Toward Novel Phenotypes in Dairy Cattle Breeding via Video Surveillance <i>Oroz, M., Oroz, M., Raguz, N., Bobic, T., Shihabi, M., Curik, I., Spehar, M., Bilandžija, K., Nyarko, K., Lukic, B.</i>
9:00 - 9:15	Species-specific differences in mammary gland biology <i>Dolinar Mateja, Zorc Minja, Dovč Peter</i>
9:15 - 9:30	Early detection of lameness in dairy cows using different methods <i>Bobić, T., Oroz, M., Oroz, M., Shihabi, M., Mijić, P., Kranjac, D., Bilandžija, K., Raguz, N., Lukić, B.</i>
9:30 - 9:45	The effect of litter size on reproductive performance of rabbit does and kit mortality over the first two parities <i>Matteo Molin, Francesco Bordignon, Marco Birolo, Andrea Zuffellato, Angela Trocino, Gerolamo Xiccato</i>
9:45 - 10:00	Differences in the morphology of the Lipizzan horse population from the Lipica stud in the last 30 years <i>Ferme Tamara, Zorc Minja, Gobbo Elena, Zupan Šemrov Manja, Mesarič Matjaž, Cotman Marko, Rus Janez, Dovč Peter</i>
10:00 - 10:30	Coffee break

Session: Animal Genetics/ Genomics III.

Chairs: Nikola Raguž, Karolína Páležová

10:30 - 10:45	How to solve the problem of the lack of phenotypic data for GWAS? <i>Dovč Peter, Zorc Minja</i>
10:45 - 11:00	Detecting the Footprints of Balancing Selection in Holstein Cattle <i>Adrián Halvoník, Nina Moravčíková, Karolína Páležová, Radovan Kasarda</i>
11:00 - 11:15	Inheritance of cattle coat color in Croatian indigenous breeds <i>Ivana Keršić, Zvonimir Mijadžiković, Aurélien Capitain, Ino Curik, Vlatka Cubric-Curik</i>
11:15 - 11:30	Sequence Polymorphisms of the Casein Gene Cluster in Croatian Indigenous Cattle Breeds <i>Zvonimir Mijadzikovic, Ivana Keršić, Vlatka Cubric-Curik, Aurelién Capitan, Ino Curik</i>
11:30 - 11:45	Population structure analysis of the Norik of Muran horse breed based on SNP data <i>Karolína Páležová, Adrián Halvoník, Nina Moravčíková, Ľuboš Vostrý, Radovan Kasarda</i>
11:45 - 12:30	Summary, the best poster and presentation awards, closing remarks <i>Radovan Kasarda, Birgit Fuerst-Waltl, Ľuboš Vostrý</i>
12:30 - 13:00	Lunch break
13:00 - 14:00	Management committee meeting