

4th International Scientific Conference Livestock Production – Recent Trends and Future Prospects

4-oji Tarptautinė mokslinė konferencija
Gyvulininkystė – naujausios tendencijos ir ateities perspektyvos

Conference venue

Lithuanian University of Health Sciences Faculty of Animal Sciences, Tilžės 18, LT-47181 Kaunas,
Lietuva (Auditorium VSF110)

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September 26-27, 2024

The Conference is organised by Lithuanian University of Health Sciences Faculty of Animal Sciences together with the Division of Agricultural and Forestry Sciences of the Lithuanian Academy of Sciences



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Prof. Dr. Jordi Miro Roig, Department of Animal Medicine and Surgery, Universitat Autònoma de Barcelona, Spain
Assoc. Prof. Katarzyna Michalek, Faculty of Biotechnology and Animal Husbandry, The West Pomeranian University of Technology in Szczecin, Poland
Prof. Dr. Hab. Izabella Woclawek-Potocka, Department of Gamete and Embryo Biology, Institute of Animal Reproduction and Food Research of Polish Academy of Sciences, Poland
Prof. Dr. Modestas Ružauskas LSMU Faculty of Veterinary Medicine
Prof. Dr. Elena Bartkienė LSMU Faculty of Animal Sciences, The Lithuanian Academy of Sciences, Lithuania
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PROGRAM, September 26, 2024, ORAL PRESENTATIONS

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9.30-10.00 Registration (Auditorium VSF102)

10.00-10.30 OPENING OF THE CONFERENCE (Auditorium VSF110)

10.30-11.00 Plenary lecture „Our Food of Tomorrow in the Context of Sustainable Food Systems and Climate Change: the Role of Livestock“, **Invited speaker Prof. Dr. Qendrim Zebeli** (Institute of Animal Nutrition and Functional Plant Compounds, Department for Farm Animals and Veterinary Public Health, University of Veterinary Medicine Vienna, Austria)

11.00-11.30 Plenary lecture „Aquaporins in Reproductive System: New Markers for Male (in)Fertility in Cattle?“, **Invited speaker Assoc. Prof. Katarzyna Michalek** (Faculty of Biotechnology and Animal Husbandry, The West Pomeranian University of Technology in Szczecin, Poland)

11.30 - 11.45 „Agri-Food Waste As A Valuable Substrate For Obtaining Feed Protein“, Andrea Maria Patelski, Maria Balcerek; Katarzyna Pielech-Przybylska; Urszula Dziekońska-Kubczak

11.45 - 12.00 „Lauraceae and Chlorellaceae in rabbit nutrition: evaluation of growth performance“, Francesco Vizzarri, Raffaella Rossi, Edda Mainardi, Julius Arvay, Lubomir Ondruska

12.00 - 12.15 “Synergistic Effect of Butyrate, Plant Extracts, and Essential Oils on Broiler Chicken Growth Performance, Physiological Functions, and Meat Quality”, Karolis Verbaitis, Virginijus Slausgalvis, Asta Racevičiūtė-Stupelienė, Monika Nutautaitė, Saulius Bliznikas, Alius Pockevičius, Vilma Vilienė

12.15 – 12.45 Cofee Break (Auditorium VSF102)

12.45 – 13.15 Plenary lecture „Advancements in Surveillance of Antimicrobial Substance Usage in Livestock Production“, **Invited speaker Prof. Dr. Vadims Bartkevics** (Research Institute of Food Safety, Animal Health and Environment "BIOR"; University of Latvia, Latvia)

13.15 – 13.45 Plenary lecture “Biotechnology in Bovine Reproduction - Embryotransfer”, **Invited speaker Prof. Dr. Hab. Izabella Woclawek-Potocka** (Department of Gamete and Embryo Biology, Institute of Animal Reproduction and Food Research of Polish Academy of Sciences, Poland)

13.45 – 14.15 Plenary lecture „Gut Microbiota Implications for Health and Production Quality in Farm Animals“, **Invited speaker Prof. Dr. Modestas Ružauskas** (Microbiology and Virology Institute, Faculty of Veterinary Medicine, Lithuanian University of Health Sciences, Lithuania)

14.15 – 14.30 „Sourdough Microbiota in Combination with Bioengineering Tools Towards Preparation of Functional Molecules from Bovine Colostrum for Agri-food, Nutraceutical, Cosmetic and Pharmaceutical Industry“, João Miguel Rocha, Sercan Karav, Elena Bartkiene

14.30 – 14.45 „Technological Potential to Enhance the Nutritional and Functional Value of Lentils as a Source of Valuable Animal Feed“, Ernestas Mockus, Vytaute Starkute, Dovile Klupsaite, Vadims Bartkevics, Anastasija Borisova, Lina Sarunaite, Ausra Arlauskiene, João Miguel Rocha, Elena Bartkiene

14.45 - 15.00 „Assessment of Alternative Plant-Based Coccidiostats on the Growth Performance, Health, and Physiological Status of Broiler Chickens“, Laura Aleksejevaite, Vilma Vilienė, Asta Racevičiūtė-Stupelienė, Burak Karacaören, Monika Nutautaitė

15.00 – 15.15 „Effects of a Phytobiotic Extract from *Macleaya Cordata* on Pig Growth Performance and Pork Quality Traits”, Ernesta Mitkutė*, Vilma Vilienė, Monika Nutautaitė, Asta Racevičiūtė-Stupelienė

15.15 – 15.30 „The Effect of Eliminating Dietary Manganese Supplementation or Replacing Its Standard Inorganic Form With Nanoparticles on The Immune Status of Rats”, Ewelina Cholewińska, Karolina Różaniecka, Jerzy Juśkiewicz, Karolina Katarzyna Ognik

15.30 – 15.45 „Valorized Food Industry By-Products – Valuable Feed Materials for Newborn Piglet Nutrition“, Sarunas Badaras, Vytaute Starkute, Ernestas Mockus, Dovile Klupsaite, Modestas Ruzauskas, Laurynas Vadopalas, Agila Dauksiene, Elena Bartkiene

15.45 – 16.00 „Pathological Lesions in Pigs Detected During *Post-mortem* Examinations and Their Impact on Public Health”, Jurgita Dailidavičienė, Lina Merkevičienė, Rūta Budreckienė, S. Kerzienė

16.00 – 16.45 Cofee Break and Summary of the First Conference Day (Auditorium VSF102)

PROGRAM, September 27, 2024, POSTERS PRESENTATION (the link to join the poster presentations will be sent to all participants 1 day before the event)

10.00 – 10.10 „Can Cannabidiol Induce Or Reduce Stress In Broiler Chickens?“, D. Szkopek, M. Kinsner, P. Konieczka

10.10 – 10.20 „The relationship between Blood B-Hydroxybutyric Acid Concentration with Milk Yield, Health and Reproduction in Holstein cows“, L. Anskienė, A. Kardišauskas, I. Mečionytė, V. Žilaitis, G. Palubinskas

10.20 – 10.30 „Blood Serum Electrolytes of Heritage Turkey Hens and Toms Administered Aqueous *Moringa olerifera* Leaves and Seeds Extracts“, Ogbu, Onyinye C., Oguike, Mary A., Adegbe, John Y.

10.30 – 10.40 „Bee Pollen Quality: Influence of Preparation Method and Storage Time on the Qualitative and Quantitative Composition of Its Phenolic Compounds“, R. Stebuliauskaitė, M. Liaudanskas, V. Žvikas, N. Sutkevičienė, Š. Sorkytė, S. Trumbeckaitė

10.40 – 10.50 „The influence of the health condition of dairy heifers on the effects of their rearing“, M. Sobczuk-Szul, P. Pogorzelska-Przybyłek, Z. Nogalski

10.50 – 11.00 „Effect of Show Diet on Future Productivity of Holstein-Friesian Heifers“, P. Pogorzelska-Przybyłek, C. Purwin, M. Borsuk-Stanulewicz, M. Sobczuk-Szul, M. Żukowski

11.00 – 11.10 „Proteomic Changes in the Cecal Mucosa of Cherry Valley Ducks Following Zeolite Supplementation“, A. Herosimczyk, M. Ożgo, A. Lepczyński, M. Marynowska, M. Barszcz, M. Banaszak, J. Biesek, A. Dunisławska, P. Pomastowski

11.10 – 11.20 „Semen Quality of *Buckfast* Bee Drones“, A. Stankūnaitė, Š. Sorkytė, G. Vaičiulienė, A. Rekešiūtė, N. Sutkevičienė

11.20 – 11.30 „The Protein Fractions of Ensiled Lucerne with Varying Levels of Dry Ice“, M. Borsuk-Stanulewicz, C. Purwin, M. Mazur-Kuśnerek

11.30 – 11.40 „Influence of lyophilized drone brood on biochemical parameters in pig blood“, P. Patráš, E. Rajčáková, V. Kňazovická

11.40 – 11.50 „The Use of Microalgae *Spirulina* for Ready-to-Cook Minced Chicken Meat Products Quality Enrichment“, A. Kurmanbekova, A. Tayeva, V. Starkute, E. Mockus, E. Mozuriene, D. Klupsaite, E. Tolpeznikaite, E. Bartkiene

11.50 – 12.00 „Characteristics of the Cooked Type Sausages Enriched with Apple Powder“, A. Kurmanbekova, A. Tayeva, V. Starkute, E. Mockus, E. Mozuriene, D. Klupsaite, E. Tolpeznikaite, E. Bartkiene

12.00 – 13.00 Coffee Break

13.00 – 13.10 „Analysis of Milking Performance of Cows in Different Lactations and Lactation Periods Based on the Electrical Conductivity of Milk“, S. Tušas, R. Mišeikienė, V. Buckiūnienė, D. Chmylnikovaitė

13.10 – 13.20 „The Seasonal Influence on the Milk Productivity of Dairy Cows“, J. Rudejevienė, R. Mišeikienė, N. Pečiulaitienė

13.20 – 13.30 „The Use of Apple Production By-products for Ready-to-Cook Minced Chicken Meat Products Quality Improvement“, A. Kurmanbekova, A. Tayeva, V. Starkute, E. Mockus, E. Mozuriene, D. Klupsaite, E. Tolpeznikaite, E. Bartkiene

13.30 – 13.40 „Effect of Energy-Vitamin-Mineral Supplement with Protected Palm Fat on Productivity of Dairy Cows“, V. Buckiūnienė, S. Tušas, D. Damasickas

13.40 – 13.50 „Polymorphism of Growth Hormone Gene (GH) (2141C>G) and its Influence on the Carcass Quality in Beef Cattle“, N. Pečiulaitienė, R. Mišeikienė, K. Morkūnienė, R. Bižienė, L. Kučinskas

14.00 – 14.10 „*Toxoplasma Gondii* Antibody Detection In Slaughtered Cattle“, M. Laukutė, B. Karvelienė, I. Stadalienė, G. Zamokas, J. Radzijevska

- 14.10 – 14.20 “Music in the pigsty – what do pigs listen to?”**, P. Ciborowska, A. Zalewska, M. Michalczuk
- 14.20 – 14.30 “Health and Economic Aspects of the Use of Phytobiotics in the Feeding of Broiler Chickens”**, J. Urban, M. Michalczuk, M. Gębska
- 14.30 – 14.40 „Equine Welfare: the crucial thematic area within the EUnetHorse European Project”**, A. Górecka-Bruzda, M. Addes
- 14.40 – 14.50 „The Influence Of The Boar Feeding System On The Physical Characteristics Of Ejaculates”**, A. Wysokińska, E. Wójcik, A. Janocha, A. Milczarek, A. Wysokiński, P. Matusevičius, E. Wyrębiak
- 14.50 – 15.00 „The Impact Of The Rations Containing Pea Meals And Herbal Preparation On Broiler Chickens Meat Quality”**, A. Janocha, A. Milczarek, E. Wójcik, A. Wysokińska, P. Matusevičius, S. Świnarski
- 15.00 – 15.10 „Environmental And Genetic Effects On Measured Hock Bone Proportions In Young Polish Warmblood Horses Undergoing Performance Test Training For Breeding Horses – Observational Study”**, R. Buczkowska, M. Hecold, D. Verwilghen, D. Lewczuk
- 15.10 – 15.20 „Connections Between Measured Hock Bone Proportions With Performance, Conformation And Ocd Status On Different Stages Of Breeding Performance Training Test For Polish Warmblood Horse”**, R. Buczkowska, M. Hecold, D. Verwilghen, D. Lewczuk
- 15.20 – 15.30 „Effect of Small Ruminant Lentivirus Infection on Acute Phase Protein gene expressions in blood leukocytes of young castrated bucks”**, D. Urbańska, J. Jarczak, M. Mickiewicz, M. Czopowicz, J. Kaba, E. Bagnicka
- 15.30 – 15.40 „Defensin Gene Expressions In Healthy Udder Quarters Adjacent To Infected With Coagulase-Positive Or Coagulase-Negative Staphylococci In H-F Dairy Cows”**, A. Szprynca, K. Pawlina-Tyszko, M. Zalewska, M. Rzewuska, T. Ząbek, E. Bagnicka
- 15.40 – 15.50 „Cannabidiol and nano form of selenium mediate changes in the fatty acids composition of breast meat of chickens applied to challenge”**, M. Kinsner, D. Szkopek, D. Bień, P. Konieczka
- 15.50 – 16.00 „Analysis of Effective Population Size in Lithuanian Dairy Cattle Populations”**, Š. Marašinskienė, R. Šveistienė, A. Račkauskaitė, V. Juškienė
- 16.00 – 16.10 „Comparison of gaits and jump movements between different genotypes in Trakehner horses”**, A. Račkauskaitė, R. Šveistienė, Š. Marašinskienė
- 16.10 – 16.20 „In-situ and Ex-situ Conservation of Native Breeds in Lithuania”**, R. Šveistiene, A. Račkauskaitė, Š. Marašinskienė, V. Razmaitė
- 16.20 – 16.30 Summary of the Conference, Conclusions**