



2-OJI TARPTAUTINĖ MOKSLINĖ KONFERENCIJA

Gyvulininkystė: naujausios tendencijos ir ateities perspektyvos

2ND INTERNATIONAL
SCIENTIFIC
CONFERENCE

Livestock Production: Recent Trends and Future Prospects



ORGANISERS:
FACULTY OF ANIMAL SCIENCES OF THE LITHUANIAN
UNIVERSITY OF HEALTH SCIENCES
LITHUANIAN ACADEMY OF SCIENCES

**The Great Hall, Veterinary Academy,
Lithuanian University of Health Sciences (LSMU), Tilžės 18, Kaunas
16 November 2022**

ORGANISING COMMITTEE:

Prof. Dr **Rolandas Stankevičius**, Faculty of Animal Sciences, LSMU
 Prof. Dr Habil. **Henrikas Žilinskas**, Lithuanian Academy of Sciences
 Prof. Dr **Elena Bartkienė**, chief researcher, LSMU, Faculty of Animal Sciences, The Lithuanian Academy of Sciences
 Prof. Dr **Paulius Matusevičius**, Faculty of Animal Sciences, LSMU
 Dr **Giedrius Palubinskas**, associate professor, Faculty of Animal Sciences, LSMU
 Dr **Evaldas Šlyžius**, associate professor, Faculty of Animal Sciences, LSMU
 Dr **Laimutis Kučinskas**, associate professor, Faculty of Animal Sciences, LSMU
Vaida Dilbienė, assistant, Faculty of Animal Sciences, LSMU
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SCIENTIFIC COMMITTEE:

Prof. Dr **Rolandas Stankevičius**, Faculty of Animal Sciences, LSMU
 Prof. Dr **Elena Bartkienė**, chief researcher, LSMU, Faculty of Animal Sciences, The Lithuanian Academy of Sciences
 Prof. Dr **Paulius Matusevičius**, Faculty of Animal Sciences, LSMU
 Prof. Dr Habil. **Jan Jankowski**, University of Warmia and Mazury in Olsztyn, Poland, Lithuanian Academy of Sciences
 Prof. Dr Habil. **Katarzyna Ognik**, University of Life Sciences in Lublin, Poland
 Prof. Dr Habil. **Jerzy Juśkiewicz**, Institute of Animal Reproduction and Food Research of the Polish Academy of Sciences, Poland



Prof. Dr **Vilma Vilienė**, Faculty of Animal Sciences, LSMU

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Dr **Evaldas Šlyžius**, associate professor, Faculty of Animal Sciences, LSMU

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Dr **Agila Daukšienė**, associate professor, senior researcher, Faculty of Animal Sciences, LSMU

Dr **Vilija Buckiūnienė**, lecturer, Faculty of Animal Sciences, LSMU

Dr **Nijolė Pečiulaitienė**, lecturer, Faculty of Animal Sciences, LSMU

Dr **Kristina Morkūnienė**, lecturer, Faculty of Animal Sciences, LSMU

Dr **Kristina de Vitte**, assistant, Faculty of Animal Sciences, LSMU

PROGRAMME

10.00–10.15 OPENING OF THE CONFERENCE

10.15–10.30 Dariusz Piwczyński, Beata Sitkowska, Magdalena Kolenda.
TRENDS IN THE COURSE OF PARTURITION OF POLISH HOLSTEIN-FRIESIAN COWS.

10.30–10.45 Özdal Gökdağ.
GENE AND HORMONE IMMUNOCASTRATION IN SMALL RUMINANTS.

10.45–11.00 Kinga Pałatyńska, Bartosz Jarosław Przybył, Michał Szlis,
Bartłomiej Wysoczański, Anna Wójcik-Gładysz.
DOES 43RF-AMIDE MODULATE THE PITUITARY GONADOTROPHE CELLS
SECRETORY ACTIVITY IN SHEEP? PRELIMINARY RESULTS.

11.00–11.15 Alicja Borowska, Dorota Lewczuk.
COMPARATIVE ANALYSIS OF TWO CONFORMATION SCORING SYSTEMS
OF POLISH WARBLOOD MARES ASSIGNED AS JUMPING AND DRESSAGE TYPE.

11.15–11.30 Evaldas Šlyžius, Lina Laučienė, Lina Anskienė, Birutė Šlyžienė, Renata Bižienė.
FACTORS DETERMINING GOAT MILK AMINO ACIDS AND FATTY ACIDS.

11.30–11.45 Kristina de Vitte, Sigita Kerzienė, Jolita Klementavičiūtė, Marius de Vitte,
Vaida Dilbienė, Rolandas Stankevičius.
EFFECTS OF BETA-CASEIN GENETIC VARIANTS ON MILK COMPOSITION
IN THE MILK OF DUAL-PURPOSE CROSSBREED COWS.

11.45–12.00 Lina Anskienė, Renata Japertienė, Sigitas Japertas.
EVALUATION OF MILK YIELD AND MILKING CHARACTERISTICS OF DIFFERENT GENOTYPES OF COWS.

12.00–13.00 COFFEE BREAK





- 13.00–13.15 Elena Bartkienė, Vita Lėlė, Vytautė Starkutė, Eglė Zokaitytė, Vadims Bartkevics.
CEREAL BY-PRODUCTS VALORIZATION BY APPLYING
ENZYMATIC TREATMENT AND FERMENTATION MODELS.
- 13.15–13.30 Paweł Konieczka, Iwona Wojtasik-Kalinowska, Misza Kinsner,
Dominika Szkopek, Joanna Banach, Monika Michalczuk.
CANNABIDIOL MEDIATE ASSOCIATION BETWEEN CAECA BACTERIAL
ACTIVITY AND BREAST MEAT VOLATILE COMPOUNDS IN CHICKENS.
- 13.30–13.45 Radosław Smagieł, Ewelina Cholewińska, Magdalena Krauze, Dariusz Mikulski,
Katarzyna Ognik, Jan Jankowski.
EFFECT OF EARLY ADMINISTRATION OF AN ANTIBIOTIC OR FEEDING A DIET CONTAINING
A COCCIDIOSTAT ON THE LEVELS OF MINERALS IN YOLK SAC AND BLOOD IN TURKEYS.
- 13.45–14.00 Agila Daukšienė, Dovilė Klupšaitė, Romas Gružas, Vytautė Starkutė,
Vita Lėlė, Paulina Zavistanavičiūtė, Erika Mozurienė, Eglė Zokaitytė, Elena Bartkienė.
SOIL DERIVED PRODUCTS IN POULTRY PRODUCTION.
- 14.00–14.15 Anna Stępniewska, Krzysztof Tutaj, Przemysław Sołek,
Bartosz Fotschki, Jerzy Juśkiewicz, Paulius Matusevičius, Katarzyna Ognik.
THE EFFECT OF A LOW OR HIGH-FAT DIET AND SUPPLEMENTATION WITH VARIOUS
FORMS OF CHROMIUM ON IMMUNOLOGICAL PARAMETERS IN THE RAT'S ORGANISM.

14.15–15.15 COFFEE BREAK

- 15.15–15.30 Ramunė Grigalevičiūtė, Rita Plančiūnienė, Vilma Zigmantaitė,
Audrius Kučinskas, Povilas Kavaliauskas, Paulius Matusevičius.
BOVINE COLOSTRUM EXERTS IMMUNOMODULATORY ACTIVITY
ON INNATE IMMUNE AND SIGNALLING IN INTESTINAL EPITHELIUM.
- 15.30–15.45 Mindaugas Budvytis, Žydrė Kadžiulienė, Rolandas Stankevičius.
BIOLOGICALLY ACTIVE SUBSTANCES OF CHIKORY N (*CICHORIUM INTYBUS*)
AND PLANTAIN (*PLANTAGO LANCEOLATA*).
- 15.45–16.00 Vilija Buckūnienė, Dovilė Klupšaitė, Paulina Zavistanavičiūtė,
Vytautė Starkutė, Vita Lėlė, Jolita Klementavičiūtė, Elena Bartkienė.
INFLUENCE OF LACTIC ACID BACTERIA AND ROSEMARY ESSENTIAL OIL
ON ILE DE FRANCE LAMB BREED MEAT (*MUSCULUS GLUTEUS*) QUALITY PARAMETERS.
- 16.00–16.15 Šarūnė Aranauskaitė, Asta Racevičiūtė-Stupelienė, Monika Nutautaitė, Vilma Vilienė.
LAYING HENS AGE INFLUENCE ON EGG QUALITY AND CONSUMER ACCEPTABILITY.

- 16.15–17.00 QUESTIONS AND DISCUSSION**
17.00 END OF THE CONFERENCE





POSTER

12.00–13.00 COFFEE BREAK (poster presentations)

Vilma Vilienė, Asta Racevičiūtė-Stupelienė, Monika Nutautaitė, Jurgita Noreikaitė.
COMPARATIVE ANALYSIS OF THE EXTERIOR, HORSE TEMPERAMENT, AND KEEPING
CONDITIONS OF ŽEMAITUKAI HORSES RAISED ON DISTINCT (X AND Y) STUD FARMS.

Kristina Morkūnienė, Renata Bižienė, Simona Birutė Ašmonaitė,
Nijolė Pečiulaitienė, Ramutė Mišeikienė, Laimutis Kučinskas.
IDENTIFICATION AND PREVALENCE OF MILK PROTEIN BETA-CASEIN A1 AND
A2 GENETIC VARIANTS IN THE DAIRY CATTLE POPULATION.

Nijolė Pečiulaitienė, Ramutė Mišeikienė, Kristina Morkūnienė, Renata Bižienė, Laimutis Kučinskas.
STAT5 GENE (6853C>T) POLYMORPHISM AND ITS INFLUENCE ON THE CARCASS QUALITY IN BEEF CATTLE.

Katarzyna Michałek, Elena Bartkienė, Patrycja Oberska, Maciej Murawski,
Dariusz Gączarzewicz, Marta Marynowska, Andrzej Syczewski.
AQUAPORINS EXPRESSION AND SPERM METABOLOME FOR THE EVALUATION OF BULL SEMEN QUALITY.

Daria Urbańska, Justyna Jarczak, Michał Czopowicz, Jarosław Kaba, Emilia Bagnicka.
DOES CORRELATION BETWEEN LENGTH OF INFECTION AND ACUTE PHASE PROTEINS GENES
EXPRESSIONS IN SOMATIC CELLS FROM MILK OF SRLV-INFECTED DAIRY GOATS EXIST?

Adrianna Szprynca, Ewelina Kawecka-Grochocka, Magdalena Zalewska,
Magdalena Rzewuska, Tomasz Ząbek, Emilia Bagnicka.
INFLUENCE OF CHRONIC MASTITIS CAUSED BY STAPHYLOCOCCAL INFECTION ON *NFκB*
AND *NFKBIA* GENE EXPRESSIONS IN DAIRY CATTLE UDDER PARENCHYMA.

Katarzyna Becker, Dorota Lewczuk.
EFFECTS OF AGE AND GENDER OF HORSE AND RIDER IN HIGH LEVEL SHOW JUMPING COMPETITION.

Roma Buczkowska, Mateusz Hecold, Dorota Lewczuk.
ANALYSIS OF CHANGES IN RADIOLOGICAL IMAGE MEASUREMENTS OF TARSAL
JOINT OF YOUNG HORSES DURING PERFORMANCE TESTS.

Anna Chołoniewska, Jan Chołoniewski, Elżbieta Wenta-Muchalska, Katarzyna Filimonow, Anna Piliszek.
DIVERSE DIFFERENTIATION PATTERNS BETWEEN RABBIT PREIMPLANTATION
EMBRYOS DEVELOPED IN VITRO VERSUS IN VIVO

Renalda Juodžentytė, Vytuolis Žilaitis, Giedrius Palubinskas.
THE POSSIBILITY TO USE BOTH HEALTHY AND RECOVERED COWS AS
OOCYTE DONORS FOR THE OPU PROCEDURE.

Renata Japertienė, Lina Anskienė, Sigitas Japertas.
EVALUATION OF MILK YIELD AND MILKABILITY TRAITS OF DIFFERENT GENOTYPE OF





LITHUANIAN RED COWS DURING LACTATION IN ORGANIC FARMS.

Renata Bižienė, Kristina Morkūnienė, Gintarė Kolaitytė,
Ramutė Mišeikienė, Nijolė Pečiulaitienė, Laimutis Kučinskas.

INVESTIGATION OF PIT1 GENE POLYMORPHISMS AND THEIR INFLUENCE ON MILK TRAITS IN DAIRY CATTLE.

Vilmantas Juodžentis, Giedrius Palubinskas, Henrikas Žilinskas.

INFLUENCE OF PUERPERAL METRITIS ON THE MILK YIELDS AND FERTILITY IN MODERN DAIRY COWS.

14.15–15.15 COFFEE BREAK (poster presentations)

Marian Czauderna, Monika Karpińska, Jarosław Woliński, Kamil Zaworski,
Małgorzata Białek, Stefan Pierzynowski, Kateryna Pierzynowska.

IMPROVED CHROMATOGRAPHIC METHOD FOR QUANTIFYING FATTY ACIDS IN PIG
ERYTHROCYTES AS BIOMARKER OF DIETARY FAT SUPPLEMENTATION.

Judita Žymantienė, Rasa Želvytė, Vaidas Oberauskas, Ugnė
Spancernienė, Kristina Musayeva, Antanas Sederevičius

BIOCHEMICAL PARAMETERS OF LIVER FUNCTION IN GUINEA PIGS FED WITH DIFFERENT DIETS.

Marian Czauderna, Věra Skřivanová, Milan Marounek, Małgorzata Białek and Agnieszka Białek. LIQUID
CHROMATOGRAPHIC METHOD FOR ANALYSIS OF CANNABINOIDS LEVEL IN HEMP SAMPLES AND YOLK EGGS.

Aleksandra Marzec, Radosław Smagiel, Ewelina Cholewińska, Magdalena Krauze,
Bartosz Fotschki, Jerzy Juśkiewicz, Paulius Matusevičius, Katarzyna Ognik.

REDOX STATUS OF RATS FED A DIET CONTAINING VARIOUS SOURCES
OF DIETARY FIBER AND COPPER NANOPARTICLES.

Raquel P. F. Guiné, Paula M. R. Correia.

QUALITY OF CHEESE MADE FROM EWE'S MILK DURING STORAGE.

Jūratė Rudejevienė, Ramutė Mišeikienė.

RELATIONSHIP BETWEEN LACTATION NUMBER, MILK YIELD AND COMPOSITION IN DAIRY COWS.

Ramutė Mišeikienė, Nijolė Pečiulaitienė, Renata Bižienė, Kristina Morkūnienė, Laimutis Kučinskas.

CHOLESTEROL DEFICIENCY HAPLOTYPE IMPACT ON MILK PRODUCTION IN LITHUANIAN HOLSTEIN COWS.

Judita Žymantienė, Vaidas Oberauskas, Rasa Želvytė,
Antanas Sederevičius, Kristina Musayeva, Ugnė Spancernienė.

EFFECTS OF DIFFERENT TUNNELS ENRICHMENT ON BEHAVIOR AND PHYSIOLOGICAL PARAMETERS OF MOUSE.

Ramutė Mišeikienė, Saulius Tušas, Jūratė Rudejevienė, Agata Balsevič.

INFLUENCE OF THE FIRST CALVING AGE ON COW PRODUCTIVITY INDICATORS.

Rūta Budreckienė, Filip Samveljan, Jurgita Dailidavičienė, Sigita Kerzienė.

THE INFLUENCE OF RACION CHANGES IN THE DYNAMICS OF THE ACTIVITY
OF BLOOD BIOCHEMICAL INDICATORS AND LIVER enzymes in heifers.

Monika Veikutytė, Audronė Rekešiūtė, Rokas Macijauskas, Neringa Sutkevičienė.

BEEF AND DAIRY BULL SEMEN QUALITY PARAMETERS IN RELATION
TO AMBIENT TEMPERATURE AND HEAT STRESS.