



13-OJI TARPTAUTINĖ
JAUNŲJŲ MOKSLININKŲ KONFERENCIJA
**JAUNIEJI MOKSLININKAI –
ŽEMĖS ŪKIO PAŽANGAI**
**THE YOUNG SCIENTISTS
FOR ADVANCE
OF AGRICULTURE**
AGRISCI2024

26 November 2024, Lithuanian Academy of Sciences, Gedimino Ave 3, Vilnius



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PROGRAMA | PROGRAMME

- 9.30–10.00 REGISTRATION
- 10.00–10.10 OPENING CEREMONY
- 10.10–11.10 **PLENARY SESSION, Small Conference Hall**
Moderators: Acad. Prof. Habil. Dr. Zenonas Dabkevičius, Acad. Prof. Habil. Dr. Baiba Rivža,
Acad. Prof. Habil. Dr. Vidmantas Stanys, Young Acad. Dr. Neringa Rasiukevičiūtė

10.10–10.20	Edvinas Misiukevičius	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	DROUGHT TOLERANCE IN THE ERA OF CLIMATE CHANGE: ARE TETRAPLOIDS THE BETTER CHOICE?
10.20–10.30	Samanta Arlauskaitė	<i>Lithuanian university of health sciences</i>	RELATIONSHIP BETWEEN LACTOSE CONCENTRATION AND RUMINATION QUALITY IN EARLY-LACTATION DAIRY COWS
10.30–10.40	Raminta Antanyrienė	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	TRANSCRIPTOME PROFILE ANALYSIS OF EUROPEAN PLUM RESPONSE TO FUNGAL <i>MONILINIA FRUCTIGENA</i> PATHOGEN
10.40–10.50	Vytautas Bunevičius	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	APPLE ORCHARD SOIL MICROBIOTA AND POSSIBLE <i>FUSARIUM</i> SPP. CONTROL BY ALTERNATIVE MEANS
10.50–11.00	Žygimantas Kidikas	<i>Vytautas Magnus University</i>	POTENTIAL CARBON SINK CAPACITY ACROSS LITHUANIAN REGIONS
11.00–11.10	Vilnis Šķipars	<i>Latvian State Forest Research Institute 'Silava'</i>	ROOT ROT FUNGUS GENE EXPRESSION AT EARLY INFECTION STAGES IN SCOTS PINE

11.10–11.30 **GROUP PHOTO**

11.30–13.00

SECTIONS I, II and III

I SECTION Horticulture, Small Conference Hall

Moderators: Young Acad. Dr. Neringa Rasiukevičiūtė and Acad. Prof. Habil. Dr. Vidmantas Stanys

11.30–11.40	Syeda Hijab Zehra	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	SUSTAINABLE GREEN SYNTHESIS OF SILVER NANOPARTICLES FROM FERMENTED <i>ORIGANUM VULGARE</i> L. EXTRACT AND THEIR ANTIMICROBIAL, ANTIOXIDANT ACTIVITY AND PHYTOCHEMICAL COMPOSITION
11.40–11.50	Darius Jermala	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	MANAGEMENT OF MINERAL NUTRITION TO CONTROL THE QUALITY AND SAFETY OF POST-HARVEST LEAFY VEGETABLES
11.50–12.00	Gundega Sebre	<i>Latvia University of Life Sciences and Technologies</i>	THE EVALUATION OF SWEET CHERRY CULTIVAR FROST TOLERANCE BY REL METHOD
12.00–12.10	Saulė Raklevičiūtė	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	THE IDENTIFICATION OF THE BACTERIAL ORIGIN ANTAGONISTS FOR THE MANAGEMENT OF STONE FRUIT MONILIOSIS
12.10–12.20	Tautvydas Gurskas	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	THE BIOLOGICAL AND GENETIC MECHANISMS OF FRUIT DROP IN APPLE TREE (<i>MALUS</i> × <i>DOMESTICA</i> BORKH.)
12.20–12.30	Vaida Čepulienė	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	GENERATIVE DEVELOPMENT OF PERENNIAL <i>ALLIUM</i> PLANTS
12.30–12.40	Akvilė Paliulytė	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	IDENTIFICATION OF FUNGAL PATHOGENS NATURALLY OCCURRING ON FRUIT TREES OF THE <i>ROSACEAE</i> FAMILY
12.40–12.50	Rugilė Bartašiūtė	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	IDENTIFICATION OF THE CAUSATIVE AGENTS OF BROWN ROT ON STONE FRUIT PLANTS
12.50–13.00	Iryna Riaba	<i>Institute of Horticulture, NAAS of Ukraine, Department of Virology, Sanitation and Propagation of Fruit and Berry Crops</i>	IMPACT OF RASPBERRY BUSHY DWARF VIRUS ON FRUIT QUALITY OF THREE RED RASPBERRY CULTIVARS (<i>pre-recorded presentation</i>)

II SECTION Agrobiolgy, Agroecology, Agricultural Engineering (I), Room 210

Moderators: Young Acad. Dr. Monika Toleikienė, Acad. Dr. Žydrė Kadžiulienė

11.30–11.40	Justinas Gegeckas	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	ADAPTIVE AGROTECHNICAL MEASURES FOR THE STABILITY OF PRODUCTIVITY UNDER CHANGING CLIMATE
11.40–11.50	Gediminas Zdanavičius	<i>Vytautas Magnus University</i>	IMPACT OF ACCOUNTING SYSTEMS FOR GHG EMISSIONS AND CO ₂ ABSORPTION IN AGRICULTURE ON CLIMATE CHANGE MITIGATION
11.50–12.00	Samar Swify	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	ENHANCED-EFFICIENCY NITROGEN FERTILIZERS APPLICATION TO REDUCE AMMONIA VOLATILIZATION AND N ₂ O EMISSIONS
12.00–12.10	Simonas Saikauskas	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	THE IMPACT OF WINTER WHEAT CULTIVARS MIXTURES ON DISEASES AND YIELD AFTER DIFFERENT PRE-CROPS
12.10–12.20	Brigita Senkienė	<i>Vytautas Magnus University</i>	ANALYSIS OF COMPOST PRODUCTION FROM GREEN WASTE
12.20–12.30	Neringa Matelionienė	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	QUANTITATIVE ASSESSMENT OF SOIL-BORNE PATHOGENS IN RELATION TO TILLAGE PRACTICES AND COVER CROP (WHITE MUSTARD) USE
12.30–12.40	Dovilė Motiejauskaitė	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	CHARACTERIZATION OF MICROPLASTICS ISOLATED FROM SEWAGE SLUDGE OF DIFFERENT SCALE WASTEWATER TREATMENT PLANTS
12.40–12.50	Ameer Hamza	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	ENHANCING CARBON ACCUMULATION IN ACID SOIL BY COMBINATION OF LIME AND MANURE
12.50–13.00	Rokas Antanynas	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	ASSESSING THE EFFECT OF INTERCROPPED WINTER RYE SERVICE CROPS ON GRAIN LEGUME AND SOIL PROCESSES

III SECTION Forestry, Room 212

Moderators: Young Acad. Dr. Darius Kavaliauskas and Acad. Prof. Dr. Darius Danusevičius

11.30–11.40	Simonas Šilingas	<i>Vytautas Magnus University</i>	FREE GROWTH IN YOUNG NORWAY SPRUCE (<i>PICEA ABIES</i>) PLANTATIONS
11.40–11.50	Toms Štāls	<i>Latvian State Forest Research Institute 'Silava'</i>	ENHANCING RIPARIAN ZONES THROUGH FOREST MANAGEMENT AND INFRASTRUCTURE
11.50–12.00	Sadig Zeynalov	<i>Vytautas Magnus University</i>	USAGE OF REMOTE SENSING TECHNIQUES IN FOREST FIRE ANALYSIS
12.00–12.10	Gailienė Brazaitytė	<i>Vytautas Magnus University</i>	BIODIVERSITY INDICATORS IN HEMI-BOREAL FORESTS: TREE-RELATED MICROHABITAT RICHNESS
12.10–12.20	Selīta Rancāne	<i>Latvian State Forest Research Institute 'Silava'</i>	PINE NEEDLE PATHOGEN <i>LECANOSTICTA ACICOLA</i> IN LATVIA
12.20–12.30	Šarūnas Bujakovski-Kukcinavičius	<i>Vytautas Magnus University</i>	INFLUENCING PUBLIC ACCEPTANCE OF PRESCRIBED FIRE AS A FOREST MANAGEMENT TOOL IN LITHUANIA
12.30–12.40	Mindaugas Ilčiukas	<i>Vytautas Magnus University</i>	DNA MARKER-BASED FOREST GENETIC MONITORING (FGM) SYSTEM IN LITHUANIA: CASE STUDY ON QUERCUS ROBUR
12.40–12.50	Līga Pentjuša	<i>Latvian State Forest Research Institute 'Silava'</i>	THE ASSESSEMENT OF VEGETATION DEPENDENT ECOSYSTEM (DIS)SERVICES ALONG FOREST ROAD VERGES
12.50–13.00	Keitlīna Krastiņa	<i>Latvian State Forest Research Institute 'Silava'</i>	CORD-FORMING BASIDIOMYCETES: THEIR ANTAGONISM TO <i>HETEROBASIDIUM</i> SPP. AND <i>ARMILLARIA</i> SPP. IN PEAT SOIL

13.00–13.30 LUNCH

IV SECTION Food Safety and Veterinary Medicine, Small Conference Hall

Moderators: Young Acad. Assoc. Prof. Dr. Juozas Grigas and Young Acad. Dr. Jonas Viškelis

13.30–13.40	Agnė Vasiliauskaitė	<i>Lithuanian University of Health Sciences</i>	IN VITRO STUDY OF FERMENTED BOVINE MILK DIGESTION: VALIDATED METHOD FOR THE ISOLATION OF INDIGENOUS PROBIOTICS
13.40–13.50	Beatričė Kasparavičienė	<i>Lithuanian University of Health Sciences</i>	ANTIMICROBIAL RESISTANCE OF ESBL AND/OR AMPC PRODUCING <i>ESCHERICHIA COLI</i> ISOLATED FROM FIVE-DAY-OLD BROILERS FLOCKS IN LITHUANIAN POULTRY FARM
13.50–14.00	Georgijs Baškirovs	<i>Institute of Horticulture</i>	SILICA MONOLITHS MODIFIED IN-SITU WITH PENTAFLUOROPHENYL LIGANDS FOR TOCOCHROMANOL SEPARATION BY HPLC
14.00–14.10	Juozas Girtas	<i>Kaunas University of Technology</i>	DEVELOPING MICROBIOLOGICALLY SAFE AND VALUE-ADDED KOMBUCHA VIA SOLID-PHASE EXTRACTION OF SEA BUCKTHORN LEAVES
14.10–14.20	Emilija Žebelytė	<i>Lithuanian University of Health Sciences</i>	INVESTIGATIVE STUDIES ON <i>BABESIA CABALLI</i> AND <i>THEILERIA EQUI</i> PIROPLASMS WITHIN THE HORSE POPULATION IN LITHUANIA
14.20–14.30	Austėja Žilinskaitė	<i>Lithuanian University of Health Sciences</i>	CROSS-SECTIONAL STUDY ON THE PREVALENCE OF TICK-BORNE ENCEPHALITIS IN HORSES IN LITHUANIA
14.30–14.40	Shabnam Seyf Aghayi	<i>Vytautas Magnus University</i>	ANIMAL WELFARE IN INTENSIVE FARMING
14.40–14.50	Sara Asna Ashari	<i>Vytautas Magnus University</i>	EFFECTS OF PLASMA AND PLASMA-ACTIVATED WATER (PAW) TREATMENT ON RADISH SEEDS

V SECTION Agronomy, Room 210

Moderators: Young Acad. Alumni Dr. Rita Armonienė and Acad. Dr. Vytautas Ruzgas

13.30–13.40	Gabrielė Bumbulytė-Žukevičienė	<i>Nature Research Centre</i>	WHEAT GRAIN INFECTED BY ASPERGILLUS FLAVUS MODIFIES BEHAVIOUR OF YELLOW MEALWORM, <i>TENEbrio MOLITOR</i> L.
13.40–13.50	Yasha Jamil	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	NITROGEN FIXATION EFFICIENCY OF BEST PERFORMING <i>RHIZOBIUM</i> IN CONTROLLED CONDITIONS UNDER ABIOTIC STRESS
13.50–14.00	Ahmed Hosney	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	SHRIMP SHELLS VALORIZATION FROM BIOWASTE TO BIOPROTECTION: SUSTAINABLE FUNGICIDE DEVELOPMENT, AND ANTIFUNGAL ACTIVITY PREDICTION WITH ARTIFICIAL NEURAL NETWORKS
14.00–14.10	Soham Sameer Gupte	<i>Vytautas Magnus University</i>	INFLUENCE OF HEAVY METAL ON SEED GERMINATION
14.10–14.20	Nazerke Torekhanova	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	ASSESSMENT OF <i>BRASSICACEAE</i> COVER CROPS AND TILLAGE PRACTICES ON MYCORRHIZAL COLONIZATION INTENSITY IN CEREAL-BASED CROPPING SYSTEMS
14.20–14.30	Raminta Skipitytė	<i>Lithuanian Research Centre for Agriculture and Forestry, Center for Physical Sciences and Technology</i>	EFFECTS OF INOCULATION OF SOYBEAN SEEDS WITH <i>BRADYRHIZOBIUM JAPONICUM</i> IN ORGANIC FIELDS IN LITHUANIA
14.30–14.40	Noor Ul Ain	<i>Ondokuz Mayis University</i>	CRISPR-BASED MODIFICATIONS OF ROOT ARCHITECTURE IN TOMATOES FOR ENHANCED PHOSPHORUS UPTAKE: A REVIEW (<i>pre-recorded presentation</i>)
14.40–14.50	Nouraz Ahmed Tanveer	<i>Ondokuz Mayis University</i>	DEVELOPMENT OF DROUGHT TOLERANT TOMATO PLANTS BY KNOCKING-OUT MIRNAS USING CRISPR/CAS9 SYSTEM (<i>pre-recorded presentation</i>)

VI SECTION Agrobiolgy, Agroecology, Agricultural Engineering (II), Room 212

Moderators: Young Acad. Assoc. Prof. Dr. Viktorija Vaštakaitė-Kairienė and Acad. Prof. Dr. Dainius Steponavičius

13.10–13.20	Yanal Alkudsi	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	THE ROLE OF MODERN TECHNOLOGIES IN ENHANCING SUSTAINABLE DEVELOPMENT GOALS IN AGRICULTURE AND FORESTRY
13.20–13.30	Mindaugas Bakševičius	<i>Vytautas Magnus University</i>	DEER POPULATIONS ON THE RISE: INSIGHTS FROM HUNTING DATA IN THE BALTICS AND CENTRAL EUROPE
13.40–13.50	Deimantė Tiškevičiūtė	<i>Nature Research Centre</i>	EFFICACY OF THREE EPN SPECIES ON ADULT MORTALITY OF THE INVASIVE PEST <i>OTIORHYNCHUS SALICICOLA</i>
13.50–14.00	Gabija Žilytė	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	EFFECT OF DIFFERENT GRANULAR ASH ON NUTRIENT BALANCE AND ASSESSMENT OF HEAVY METAL POLLUTION
14.10–14.20	Božena Igotienė	<i>Nature Research Centre</i>	MICROBIAL BIOSTIMULANTS BOOST PRODUCTIVITY AND QUALITY OF CARROTS AND AFFECT AGROCHEMICAL SOIL PROPERTIES
14.20–14.30	Egidija Satkevičiūtė	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	OPTIMIZATION OF CELLULOLYTIC ACTIVITY CONDITIONS OF SOIL BACTERIA AND EVALUATION OF THEIR INFLUENCE ON SEED GERMINATION
14.30–14.40	Agnė Baranauskaitė	<i>Nature Research Centre</i>	TRANSMISSION OF <i>SARCOCYSTIS</i> SPP. IN LITHUANIAN LIVESTOCK FARMS
14.40–14.50	Ieva Knoknerienė	<i>Vytautas Magnus University</i>	EVALUATION OF BIOCOATING EFFICACY IN MITIGATING AMMONIA EMISSIONS FROM MANURE

15.00–15.20 CLOSING CEREMONY

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