

AGRISCI2025

14-OJI TARPTAUTINĖ JAUNŲJŲ MOKSLININKŲ KONFERENCIJA
JAUNIEJI MOKSLININKAI – ŽEMĖS ŪKIO PAŽANGAI

14TH INTERNATIONAL CONFERENCE OF YOUNG SCIENTISTS
**THE YOUNG SCIENTISTS FOR ADVANCE
OF AGRICULTURE**

26 November 2025, Lithuanian Academy of Sciences, Gedimino Ave 3, Vilnius



PROGRAMA | PROGRAMME

9.30–10.00	Registration
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10.00–10.10	OPENING CEREMONY
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Moderators: Akad. Prof. Habil. Dr Jūras Banys, Acad. Prof. Zenonas Dabkevičius, Acad. Prof. Dr Vidmantas Stanys, Acad. Prof. Habil. Dr Baiba Rivža, Young Acad. Dr Neringa Rasiukevičiūtė

PLENARY SESSION, Grand Hall

Moderators: Acad. Prof. Zenonas Dabkevičius, Acad. Prof. Dr Vidmantas Stanys, Acad. Prof. Habil. Dr Baiba Rivža, Young Acad. Dr Neringa Rasiukevičiūtė

10.10–10.30	Acad. Prof. Dr Elena Bartkienė	<i>Lithuanian University of Health Sciences</i>	TOWARDS A HOLISTIC UNDERSTANDING OF FOOD AND MENTAL WELL-BEING: THE ONE HEALTH APPROACH
10.30–10.50	Acad. Prof. Dr Nazim Gruda	<i>University of Bonn</i>	CLIMATE-SMART PRODUCTION PRACTICES TOWARDS A SUSTAINABLE PROTECTED CULTIVATION
10.50–11.10	Acad. Prof. Habil. Dr Baiba Rivža	<i>Latvia University of Life Sciences and Technologies</i>	MODERN AGRICULTURE NEEDS YOUNG SCIENTISTS

11.10– 11.30	Group photo and coffee break		
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I SECTION. Agronomy, Horticulture, Small Hall

Moderators: Acad. Prof. Dr Vidmantas Stanys, Young Acad. Dr Rūta Sutulienė

11.30–11.40	Neringa Matelionienė	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	INFLUENCE OF TILLAGE PRACTICES AND MUSTARD COVER CROPPING ON SOIL MICROBIAL DIVERSITY AND PATHOGENIC FUNGI ABUNDANCE
11.40–11.50	Mudassar Hussain	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	VALORIZATION OF HEMP BIOMASS THROUGH GREEN TECHNOLOGIES FOR SUSTAINABLE FOOD PACKAGING APPLICATIONS
11.50–12.00	Egidija Satkevičiūtė	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	SPECTRAL AND MORPHOMETRIC RESPONSES OF WINTER WHEAT VARIETIES TO DROUGHT STRESS
12.00–12.10	Justina Dambrauskaitė	<i>Lithuanian University of Health Sciences</i>	GENOTYPE-DEPENDENT DIFFERENCES IN VIRUS INFECTION INTENSITY IN HONEY BEES (<i>APIS MELLIFERA</i>)
12.10–12.20	Justinas Gegeckas	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	ADAPTIVE AGROTECHNICAL MEASURES FOR THE STABILITY OF PRODUCTIVITY UNDER CHANGING CLIMATE

12.20-12.30	Edvinas Misiukevičius	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	EVOLUTION IN MOTION: DECODING DAYLILY SELECTION'S PULSE AMID SHIFTING CLIMATES
12.30-12.40	Affan Parwez	<i>Hungarian University of Agriculture and Life Sciences</i>	WHITE GRAPE MARC EXTRACT WITH DIVERSE AND HIGH POLYPHENOLIC CONTENT AS A POTENTIAL BENEFICIAL FEED ADDITIVE IN ANIMAL HUSBANDRY
12.40-12.50	Muhammad Fahad Hakim	<i>Lithuanian Research Centre</i>	PLANT GROWTH-PROMOTING PROPERTIES OF RHODIOLA ROSEA ROOT ENDOPHYTIC BACTERIA
12.50-13.00	Enock Asante Osei	<i>Poznan University of Life Sciences / University for Development Studies</i>	PROSPECTS OF REPURPOSING AIR CONDITIONING SYSTEM CONDENSATE FOR URBAN AGRICULTURE IN GHANA
13.00-13.10	Anita Avena	<i>Latvia University of Life Sciences and Technologies</i>	EVALUATION OF CYANOGENIC GLYCOSIDE ACCUMULATION IN BLACK ELDERBERRY JUICE
13.10-13.20	Naveen Keshamalla	<i>College of Agriculture</i>	HARNESSING GENETIC DIVERSITY FOR FUSARIUM STALK ROT RESISTANCE IN MAIZE AN INTEGRATED PHENOTYPIC-GENOTYPIC APPROACH

II SECTION. Forestry, 210

Moderators: Young Acad. Dr Neringa Rasiukevičiūtė, Young Acad. Dr Darius Kavaliauskas

11.30-11.40	Abolaji Abiodun Mafolasire	<i>University of Ibadan / Vytautas Magnus University</i>	POTENTIAL OF MODIFIED GREENWAYODENDRON SUAVEOLENS (ENGL. & DIELS) FIBER AS RENEWABLE REINFORCEMENT IN BIOCOMPOSITES
11.40-11.50	Clement Olayanu	<i>University of Ibadan / Vytautas Magnus University</i>	WOODEN ROOF FAILURE IN BENIN REPUBLIC: CAUSES, TYPES AND REMEDY
11.50-12.00	Evelina Slavnova	<i>University of Latvia / Nature Research Centre</i>	CAPERCAILLIE AS THE INDICATOR OF FOREST HEALTH DIVERSITY AND GENETIC STRUCTURE OF IT POPULATIONS IN LITHUANIA AND LATVIA
12.00-12.10	Keitlīna Krastiņa	<i>Latvian State Forest Research Institute Silava</i>	ASSESSMENT OF EMERGING LEAF PATHOGENS IN FAGUS SYLVATICA AND QUERCUS RUBRA STANDS IN LATVIA
12.10-12.20	Selita Rancāne	<i>Latvian State Forest Research Institute Silava</i>	INVASIVE FUNGAL SPECIES CAUSING NEEDLE BLIGHT IN SCOTS PINE (<i>PINUS SYLVESTRIS</i> L.) STANDS IN LATVIA
12.20-12.30	Simona Užkuraitė	<i>Vytautas Magnus University</i>	ADAPTING TO CHANGE: INNOVATION DEVELOPMENT IN LITHUANIAN FORESTRY SECTOR
12.30-12.40	Yanal Ahmad Alkuddsi	<i>University of Agricultural Sciences</i>	RELATIONSHIP BETWEEN SSR-BASED MOLECULAR MARKER AND COTTON F1 INTER SPECIFIC HYBRIDS PERFORMANCE FOR SEED COTTON YIELD AND FIBER PROPERTIES
12.40-12.50	Yaqoob Sultan	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	PATTERNS OF PRODUCTIVITY VARIATION IN LITHUANIAN LOTUS CORNICULATUS ACROSS ECOLOGICAL AND MANAGEMENT CONTEXTS
12.50-13.00	Giedrius Šidlauskas	<i>Nature Research Centre</i>	GENETIC IDENTIFICATION OF <i>TOXOPLASMA GONDII</i> IN BRAIN TISSUES OF WILD RODENTS FROM LITHUANIA
13.00-13.10	Maryna Ramanenka	<i>Latvian State Forest Research Institute Silava</i>	METABARCODING OF THE MYCOBIOME OF <i>PHAENOPS CYANEA</i> AND <i>PISSODES</i> SPP.
13.10-13.20	Kokkula Bhavitha	<i>College of Agriculture</i>	PROFITABILITY ASSESSMENT OF SMART IRRIGATION SYSTEMS IN CHILLI (<i>CAPSICUM ANNUUM</i> L.) PRODUCTION

III SECTION. Food safety and Veterinary medicine, 212

Moderators: Acad. Prof. Dr Elena Bartkienė, Young Acad. Dr Juozas Grigas

11.30–11.40	Samanta Grigė	<i>Lithuanian University of Health Sciences</i>	MILK FAT-TO-PROTEIN RATIO AS A MARKER OF BLOOD METABOLIC CHANGES RELATED TO SUBCLINICAL KETOSIS AND LOW-GRADE RUMINAL ACIDOSIS IN EARLY LACTATION DAIRY COWS
11.40–11.50	Agnė Sporišaitė	<i>Lithuanian University of Health Sciences</i>	OXIDATIVE STRESS-INDUCED ALTERATIONS IN BONE MARROW CYTOMORPHOLOGY IN BALB/C MICE
11.50–12.00	Agnė Vasiliauskaitė	<i>Lithuanian University of Health Sciences</i>	EFFECT OF PROBIOTIC EDIBLE COATINGS ON THE NUTRITIONAL AND BIOCHEMICAL PROPERTIES OF EDAM-TYPE CHEESE
12.00–12.10	Raimonda Tamulionytė-Skėrė	<i>Lithuanian University of Health Sciences</i>	COOLED STALLION SEMEN TRANSPORTED WITHOUT QUALITY CERTIFICATION THE FIRST LITHUANIAN STUDY ON SEMEN QUALITY BIOMARKERS AND FERTILITY AFTER 24-HOUR SHIPMENT
12.10–12.20	Šarūnė Sorkytė	<i>Lithuanian University of Health Sciences</i>	ASSOCIATIONS BETWEEN MICROPLASTICS AND SPERM MOTILITY PARAMETERS IN BOAR SEMEN
12.20–12.30	Austėja Žilinskaitė	<i>Lithuanian University of Health Sciences</i>	QUANTITATIVE PROFILING OF TICK-BORNE ENCEPHALITIS VIRUS IN HOSTS AND VECTORS USING DIGITAL PCR IN CELL CULTURE MODELS
12.30–12.40	Dovilė Grigauskaitė	<i>Lithuanian University of Health Sciences</i>	INTERACTION OF BOVINE HERPESVIRUS TYPE 1 WITH COPPER AND ZINC SURFACE MATERIALS
12.40–12.50	Aurelija Žuolytė	<i>Nature Research Centre</i>	EFFECTS OF ANTIFUNGAL DRUGS AND BACTERIAL AGENT M20G ON FISH PATHOGENIC OOMYCOTA
12.50–13.00	Jovita Einorytė	<i>Lithuanian University of Health Sciences</i>	CYTOLOGICAL EVALUATION OF SOMATIC CELLS IN GOAT MILK: A STEP TOWARD MORE ACCURATE UDDER HEALTH ASSESSMENT
13.00–13.10	Gabrielė Babarskaitė	<i>Lithuanian University of Health Sciences</i>	IMPACT OF CAPACITIVE-RESISTIVE MONOPOLAR RADIOFREQUENCY ON MECHANICAL NOCICEPTIVE THRESHOLD IN JUMPING HORSES: A PILOT STUDY
13.10–13.20	Dainora Petrauskaitė	<i>Lithuanian University of Health Sciences</i>	THE EFFECT OF BIOELECTRONIC TECHNOLOGY APPLICATION ON BOAR SPERM VIABILITY, MOTILITY, AND PH STABILITY

IV SECTION. Agronomy, 215

Moderators: Young Acad. Dr Monika Toleikienė, Young Acad. Dr Paulina Štreimikytė

11.30–11.40	Sidra Tul Muntaha	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	UNLOCKING THE POTENTIAL OF NETTLE (<i>URTICA DIOICA</i> L.): A BIORESOURCE FOR SUSTAINABLE AGRICULTURE
11.40–11.50	Jurinta Voišvilo	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	COMPARISON OF AGRONOMIC PERFORMANCE AND GRAIN QUALITY IN ANTHOCYANIN-RICH AND COMMON WHEAT BREEDING MATERIAL
11.50–12.00	Jānis Kaņeps	<i>Latvia University of Life Sciences and Technologies</i>	FUNGAL COMMUNITIES ASSOCIATED WITH SEEDS OF LEGUMES
12.00–12.10	Inta Jakobija	<i>LBTU Institute for Plant Protection Research Agrihorts</i>	EFFECTIVENESS OF PLANT GROWTH REGULATORS AND PLANT PROTECTION LOAD INDEX UNDER DIFFERENT NITROGEN TOP-DRESSING RATES IN WINTER WHEAT

12.10–12.20	Inese Taskova	<i>Institute of Agricultural Resources and Economics / Latvia University of Life Sciences and Technologies</i>	DETERMINATION OF NITROGEN CONTENT IN POTATO TUBERS USING A NON-DESTRUCTIVE METHOD ACROSS DIFFERENT GROWING SEASONS
12.20–12.30	Rokas Antanynas	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	EFFECT OF WINTER WHEAT–LEGUMES CROPPING SYSTEMS ON SOIL MINERAL NITROGEN AND GRAIN YIELD
12.30–12.40	Jonas Neveckas	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	OPTIMIZING ROOT BIOMASS AND FUNCTIONS USING BIOSTIMULANTS FOR MOST RECENT OAT VARIETIES
12.40–12.50	Lāsma Rābante-Hāne	<i>Institute of Agricultural Resources and Economics / Latvia University of Life Sciences and Technologies</i>	IN VITRO EVALUATION OF NITROGEN USE EFFICIENCY IN POTATO (<i>SOLANUM TUBEROSUM</i> L. UNDER DIFFERENT NITROGEN LEVELS
12.50–13.00	Zaiga Jansone	<i>Institute of Agricultural Resources and Economics</i>	UAV-BASED PHENOTYPING FOR EARLY-GENERATION SELECTION IN SPRING WHEAT EVALUATING VEGETATION INDICES FOR AGRONOMIC TRAIT PREDICTION
13.00–13.10	Kalluri Praveen	<i>Jawaharlal Nehru Krishi Vishwa Vidyalyaya</i>	SOLAR-BATTERY POWERED SELF-PROPELLED DRUM SEEDER FOR LOW-CARBON PADDY CULTIVATION IN CLIMATE-RESILIENT URBAN-PERIURBAN FARMING SYSTEMS
13.10–13.20	Ameer Hamza	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	LEGACY EFFECTS OF SIXTY YEARS OF FARMYARD MANURE AND LIME APPLICATION ON SOIL AGGREGATION AND CARBON-NUTRIENT RETENTION
13.20–13.50	Lunch		

V SECTION. Agriculture, Agrobiolgy, Agroecology, 211

Moderators: Young Acad. Dr Vilma Naujokienė, Young Acad. Alumni Dr Viktorija Vaštakaitė-Kairienė

13.50–14.00	Muhammad Tayyib	<i>Kaunas University of Technology</i>	NON-INVASIVE MONITORING OF PLANT WATER STATUS USING PORTABLE AIR-COUPLED ULTRASONICS FOR PRECISION AGRICULTURE
14.00–14.10	Audrius Adomėlis	<i>Vytautas Magnus University</i>	IMPACT OF VERTICAL TILLAGE ON SOIL QUALITY AND ENVIRONMENT
14.10–14.20	Ieva Knoknerienė	<i>Vytautas Magnus University</i>	REDUCING AMMONIA EMISSIONS FROM MANURE BY MANAGING SURFACE AND BULK MOISTURE LEVELS
14.20–14.30	Raminta Skipitytė	<i>Lithuanian Research Centre for Agriculture and Forestry / Center for Physical Sciences and Technology</i>	INOCULATION EFFICIENCY IN TWO VARIETIES OF SOYBEAN
14.30–14.40	Algimanta Kundrotaitė	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	INVESTIGATING THE INFLUENCE OF FEEDSTOCK TYPE AND PYROLYSIS TEMPERATURE ON BIOCHAR SUITABILITY FOR SOIL APPLICATIONS
14.40–14.50	Līga Dziedule	<i>Institute of Agricultural Resources and Economics</i>	THE IMPACT OF CLIMATE CHANGE ON SPRING BARLEY (<i>HORDEUM VULGARE</i> L.) PHENOLOGY IN PRIEKUĻI, LATVIA IN THE 20TH AND 21ST CENTURIES
14.50–15.00	Rūta Urbonaitė	<i>Vilnius University</i>	MANAGEMENT RECOMMENDATIONS FOR MAINTAINING HIGH BIOLOGICAL VALUE GRASSLAND BASED ON FUNGAL BIOINDICATORS

15.00–15.10	Ardas Kavaliauskas	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	INTEGRATING UAV MULTISPECTRAL DATA AND MACHINE LEARNING FOR MAIZE YIELD PREDICTIO UNDER CONTRASTING SOIL AND FERTILIZATION SYSTEMS
15.10–15.20	Syed Summiya	<i>University of Sindh Jamshoro</i>	ANALYSIS OF COMPARISON BETWEEN ZINC SOIL AND FOLIAR APPLICATION TO IMPROVE ZINC BIOFORTIFICATION OF RICE
15.20–15.30	Benyahoub Rabie	<i>Kasdi Merbah University</i>	QUINOA (<i>CHENOPODIUM QUINOA</i> WILLD.): A PROMISING SOURCE OF BIOACTIVE COMPOUND FOR FUNCTIONAL FOOD DEVELOPMENT
15.30–15.40	Vivita Viksnina	<i>Latvia University of Life Sciences and Technologies</i>	AGROECOLOGICAL APPROACH TO ENVIRONMENTALLY FRIENDLY INNOVATIO IN SUSTAINABLE FARMING SYSTEMS OF LATVIA

VI SECTION. Agrobiology, Agroecology and Agricultural engineering, 212

Moderators: Young Acad. Dr Jonas Viškelis, Young Acad. Dr Paulina Štreimikytė

13.50–14.00	Toms Bartulsons	<i>Institute of Horticulture</i>	DIAGNOSTIC OF PLANT PATHOGENS IN THE EARLY STAGE BY USING DEEP LEARNING ALGORITHM FOR DIFFERENT IMAGE TYPES
14.00–14.10	Alper Melih Ucar	<i>Nature Research Centre / Vilnius Tech</i>	MAPPING MULTIRESTANCE: ANTIBIOTIC-RESISTANT BACTERIA IN LITHUANIAN AGRICULTURAL ECOSYSTEMS
14.10–14.20	Brigita Senkienė	<i>Vytautas Magnus University</i>	OPTIMIZATION OF HORTICULTURE RESIDUES BIOCONVERSION USING BY-PRODUCT OF ANIMAL ORIGIN AND BIOEFFECTORS
14.20–14.30	Samar Swify	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	HOUSEHOLD FOOD WASTE RECYCLING TO PRODUCE ECO-FRIENDLY FERTILIZERS ENHANCING SOIL QUALITY AND IMPROVING MASS YIELD
14.30–14.40	Matas Gavenauskas	<i>Nature Research Centre</i>	RESEARCH ON THE POTENTIAL OF FOUR FUNGI OF THE FAMILY HYMENOGASTRACEAE FOR SAFE AND TECHNOLOGICALLY RELIABLE USE IN THE PRODUCTION OF BIOCOMPOSITE MATERIALS
14.40–14.50	Syeda Hijab Zehra	<i>Lithuanian Research Centr for Agriculture and Forestry</i>	MICROWAVE-ASSISTED SYNTHESIS OF ANTIMICROBIAL SILVER NANO-PARTICLES USING PROPOLIS EXTRACTS
14.50–15.00	Khadija Ramzan	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	HMDS-SILYLATION IMPROVES COMPATIBILITY OF PIGMENT-RICH AGRO-WASTE FILLERS IN PDMS COMPOSITES
15.00–15.10	Rajendra Prasad	<i>Agricultural College</i>	UNVEILING TRAIT ASSOCIATIONS FOR YIELD IMPROVEMENT IN RICE (<i>ORYZA SATIVA</i> L.) GENOTYPES
15.10–15.20	Muhammad Hamza	<i>Ondokuz Mayis University</i>	PREDICTIVE MODELING OF GRAFT COMPATIBILITY IN CHERRY USING GENOMIC MARKERS AND MACHINE LEARNING APPROACHES
15.20–15.30	Malaika Zaheer	<i>Ondokuz Mayis University</i>	ADVANCING DNA-FREE PLANT GENOME EDITING THROUGH NANOCARRIER-MEDIATED DELIVERY SYSTEMS
15.30–15.40	Nadia Shaheen	<i>University of Sargodha</i>	PHYSIOLOGICAL AND YIELD RESPONSES OF STOCK (<i>MATTHIOLA INCANA</i>) TO DIFFERENT BIOSTIMULANT TREATMENTS

VII SECTION. Horticulture, Small Hall

Moderators: Acad. Dr Giedrė Samuolienė, Young Acad. Dr Rūta Sutulienė

13.50–14.00	Danija Lazdiņa	<i>Institute of Horticulture</i>	MICROBIOLOGICAL FERMENTATION FOR FLAVOUR COMPOUND GENERATION FROM FRUIT SEEDS
14.00–14.10	Heidi Viilop	<i>Estonian University of Life Sciences</i>	POSTHARVEST QUALITY OF Highbush BLUEBERRIES USING SUSTAINABLE PACKAGING
14.10–14.20	Vytautas Bunevičius	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	APPLE PATHOGENIC FUNGI CONTROL USING ALTERNATIVE MEANS
14.20–14.30	Irina Sivicka	<i>Latvia University of Life Sciences and Technologies</i>	ASPECTS OF CORRELATION ANALYSIS AMONG 44 ACCESSIONS OF OREGANO IN THE <i>EX SITU</i> COLLECTION
14.30–14.40	Linda Upeniece	<i>Institute of Agricultural Resources and Economics / Latvia University of Life Sciences and Technologies</i>	ANTAGONISTIC EFFICIENCY OF <i>BACILLUS SUBTILIS</i> AGAINST <i>ALTERNARIA</i> SPP. UNDER <i>IN VITRO</i> CONDITIONS
14.40–14.50	Nasim Safari	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	CONTROLLED ENVIRONMENT CULTIVATION FOR VALUABLE MEDICINAL AND AROMATIC <i>LAMIACEAE</i> SPECIES
14.50–15.00	Vaida Čepulienė	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	MINERAL COMPOSITION IN LEAVES AND INFLORESCENCES OF <i>ALLIUM</i> SPECIES
15.00–15.10	Tanzila Rafique	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	EFFECT OF LIGHT INTENSITY ON GROWTH PERFORMANCE OF TOMATO ROOTSTOCKS IN CONTROLLED ENVIRONMENTS
15.10–15.20	Darius Jermala	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	INFLUENCE OF CALCIUM CONCENTRATIONS IN HYDROPONIC SOLUTION ON FUNGAL PATHOGENS IN ROCKET
15.20–15.30	Ayesha Khan	<i>Lithuanian Research Centre for Agriculture and Forestry</i>	SALINITY TOLERANCE AND GROWTH PERFORMANCE OF SEVEN <i>AMARANTHACEAE</i> HALOPHYTES UNDER CONTROLLED ENVIRONMENTAL CONDITIONS
15.30–15.40	Izhar Ullah	<i>Ondokuz Mayıs University</i>	DETERMINATION OF HEAT STRESS TOLERANCE MECHANISMS IN STRAWBERRY THROUGH TRANSCRIPTOMICS AND MACHINE LEARNING APPROACHES
15.40–16.00	Closing ceremony		

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