

AGRI SCI 2025



14-OJI TARPTAUTINĖ JAUNUJŲ 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
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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	Lithuanian Research Centre for Agriculture and Forestry	EVOLUTION IN MOTION: DECODING DAYLILY SELECTION'S PULSE AMID SHIFTING CLIMATES
12.30-12.40	Affan Parwez	Hungarian University of Agriculture and Life Sciences	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	Lithuanian Research Centre	PLANT GROWTH-PROMOTING PROPERTIES OF <i>RHODIOLA ROSEA</i> ROOT ENDOPHYTIC BACTERIA
12.50-13.00	Enock Asante Osei	Poznan University of Life Sciences / University for Development Studies	PROSPECTS OF REPURPOSING AIR CONDITIONING SYSTEM CONDENSATE FOR URBAN AGRICULTURE IN GHANA
13.00-13.10	Anita Avena	Latvia University of Life Sciences and Technologies	EVALUATION OF CYANOGENIC GLYCOSIDE ACCUMULATION IN BLACK ELDERBERRY JUICE
13.10-13.20	Naveen Keshamalla	College of Agriculture	HARNESSING GENETIC DIVERSITY FOR <i>FUSARIUM</i> 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	University of Ibadan / Vytautas Magnus University	POTENTIAL OF MODIFIED GREENWAYODENDRON SUAVEOLENS (ENGL. & DIELS) FIBER AS RENEWABLE REINFORCEMENT IN BIOMATERIALS
11.40-11.50	Clement Olayanu	University of Ibadan / Vytautas Magnus University	WOODEN ROOF FAILURE IN BENIN REPUBLIC: CAUSES, TYPES AND REMEDY
11.50-12.00	Evelina Slavnova	University of Latvia / Nature Research Centre	CAPERCAILLIE AS THE INDICATOR OF FOREST HEALTH DIVERSITY AND GENETIC STRUCTURE OF ITS POPULATIONS IN LITHUANIA AND LATVIA
12.00-12.10	Keitlīna Krastiņa	Latvian State Forest Research Institute 'Silava'	ASSESSMENT OF EMERGING LEAF PATHOGENS IN <i>FAGUS SYLVATICA</i> AND <i>QUERCUS RUBRA</i> STANDS IN LATVIA
12.10-12.20	Selita Rancāne	Latvian State Forest Research Institute 'Silava'	INVASIVE FUNGAL SPECIES CAUSING NEEDLE BLIGHT IN SCOTS PINE (<i>PINUS SYLVESTRIS</i> L.) STANDS IN LATVIA
12.20-12.30	Simona Užkuraitė	Vytautas Magnus University	ADAPTING TO CHANGE: INNOVATION DEVELOPMENT IN LITHUANIAN FORESTRY SECTOR
12.30-12.40	Yanal Ahmad Alkuddsi	University of Agricultural Sciences	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	Lithuanian Research Centre for Agriculture and Forestry	PATTERNS OF PRODUCTIVITY VARIATION IN LITHUANIAN <i>LOTUS CORNICULATUS</i> ACROSS ECOLOGICAL AND MANAGEMENT CONTEXTS
12.50-13.00	Giedrius Šidlauskas	Nature Research Centre	GENETIC IDENTIFICATION OF <i>TOXOPLASMA GONDII</i> IN BRAIN TISSUES OF WILD RODENTS FROM LITHUANIA
13.00-13.10	Maryna Ramanenka	Latvian State Forest Research Institute 'Silava'	METABARCODING OF THE MYCOBIOME OF <i>PHAENOPS CYANEA</i> AND <i>PISSODES</i> spp.
13.10-13.20	Kokkula Bhavitha	College of Agriculture	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	Lithuanian University of Health Sciences	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	Lithuanian University of Health Sciences	OXIDATIVE STRESS-INDUCED ALTERATIONS IN BONE MARROW CYTOMORPHOLOGY IN BALB/C MICE
11.50–12.00	Agnė Vasiliauskaitė	Lithuanian University of Health Sciences	EFFECT OF PROBIOTIC EDIBLE COATINGS ON THE NUTRITIONAL AND BIOCHEMICAL PROPERTIES OF EDAM-TYPE CHEESE
12.00–12.10	Raimonda Tamulionytė-Skrė	Lithuanian University of Health Sciences	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	Lithuanian University of Health Sciences	ASSOCIATIONS BETWEEN MICROPLASTICS AND SPERM MOTILITY PARAMETERS IN BOAR SEMEN
12.20–12.30	Austėja Žilinskaitė	Lithuanian University of Health Sciences	QUANTITATIVE PROFILING OF TICK-BORNE ENCEPHALITIS VIRUS IN HOSTS AND VECTORS USING DIGITAL PCR IN CELL CULTURE MODELS
12.30–12.40	Dovilė Grigauskaitė	Lithuanian University of Health Sciences	INTERACTION OF BOVINE HERPESVIRUS TYPE 1 WITH COPPER AND ZINC SURFACE MATERIALS
12.40–12.50	Aurelija Žuolytė	Nature Research Centre	EFFECTS OF ANTIFUNGAL DRUGS AND BACTERIAL AGENT M20G ON FISH PATHOGENIC OOMYCOTA
12.50–13.00	Jovita Einorytė	Lithuanian University of Health Sciences	CYTOLOGICAL EVALUATION OF SOMATIC CELLS IN GOAT MILK: A STEP TOWARD MORE ACCURATE UDDER HEALTH ASSESSMENT
13.00–13.10	Gabrielė Babarskaitė	Lithuanian University of Health Sciences	IMPACT OF CAPACITIVE-RESISTIVE MONOPOLAR RADIOFREQUENCY ON MECHANICAL NOCICEPTIVE THRESHOLD IN JUMPING HORSES: A PILOT STUDY
13.10–13.20	Dainora Petrauskaitė	Lithuanian University of Health Sciences	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	Lithuanian Research Centre for Agriculture and Forestry	UNLOCKING THE POTENTIAL OF NETTLE (<i>URTICA DIOICA L.</i>): A BIORESOURCE FOR SUSTAINABLE AGRICULTURE
11.40–11.50	Jurinta Voišvilo	Lithuanian Research Centre for Agriculture and Forestry	COMPARISON OF AGRONOMIC PERFORMANCE AND GRAIN QUALITY IN ANTHOCYANIN-RICH AND COMMON WHEAT BREEDING MATERIAL
11.50–12.00	Jānis Kaņeps	Latvia University of Life Sciences and Technologies	FUNGAL COMMUNITIES ASSOCIATED WITH SEEDS OF LEGUMES
12.00–12.10	Inta Jakobija	LBTU Institute for Plant Protection Research Agrihorts	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 Nevecka	<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>	<i>IN VITRO</i> 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 WHEA EVALUATING VEGETATION INDICES FOR AGRONOMIC TRAIT PREDICTION
13.00–13.10	Kalluri Praveen	<i>Jawaharlal Nehru Krishi Vishwa Vidyalaya</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, Agrobiology, 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 Dzedule	<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 PREDICTION 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 WILLD.</i>): 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 INNOVATION 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 MULTIRESISTANCE: 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 HYMENOPHAEACEAE FOR SAFE AND TECHNOLOGICALLY RELIABLE USE IN THE PRODUCTION OF BIOMATERIALS
14.40–14.50	Syeda Hijab Zehra	<i>Lithuanian Research Centre 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 L.</i>) GENOTYPES
15.10–15.20	Muhammad Hamza	<i>Ondokuz Mayıs University</i>	PREDICTIVE MODELING OF GRAFT COMPATIBILITY IN CHERRY USING GENOMIC MARKERS AND MACHINE LEARNING APPROACHES
15.20–15.30	Malaika Zaheer	<i>Ondokuz Mayıs 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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