

PATVIRTINTA
 Vytauto Didžiojo universiteto
 Lietuvos agrarinių miškų ir mokslų
 centro agronomijos
 krypties doktorantūros komiteto
 posėdžio 2023 m. kovo
 14 d. protokolu Nr. 190

List of Dissertation Topics and Possible Supervisors in Agronomy Sciences Field (2023 m.)

Dissertation Topic	Institution	Supervisors
The effectiveness of spectrophotometric analysis for increasing wheat productivity and reducing environmental pollution	VMU	Doc. dr. Ernestas Zaleckas
Soil organic matter and microbial biomass stabilisation with implementation of innovative organic fertilisers and growing diverse variety of plants	VMU	Doc. dr. Jūratė Aleinikovienė
The impact of multifunctional inter-crops on the soil and winter wheat productivity	VMU	Prof. dr. Kęstutis Romaneckas
Perennial cereal grain crop adaptation potential in Lithuanian climatic and edaphic conditions	VMU	Doc. dr. Zita Kriauciūnienė
Increasing the quality potential of berrybushes fruit by applying sustainable fertilization technologies.	VMU	Doc. dr. Nijolė Vaitkevičienė
Evaluation of organic matter quality indicators at the molecular level for sustainable use of peatlands	LAMMC	Dr. Kristina Amalevičiūtė-Volungė
Development of anthocyanin ware potato (<i>Solanum tuberosum</i> L.) selection material by anther culture method	LAMMC	Dr. Rita Asakavičiūtė
Valorisation of food processing by-products for green metal nanoparticle biosynthesis and development of biodegradable micro / nano polymer composites	LAMMC	Dr. Aistė Balčiūnienė
Analysis of molecular mechanisms of plant and endophytic bacteria interaction	LAMMC	Dr. Danas Baniulis
Legume fractionation and evaluation of their composition and multifunctional properties	LAMMC	Dr. Jurgita Cesesvičienė
Synthesis of fast and slow release fertilizers made from waste of various origins and their application in agriculture	LAMMC	Dr. Donata Drapanauskaitė

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Study of dehydrin protein interactions by antibody pulldown - mass spectrometry (AP-MS)	LAMMC	Dr. Perttu Haimi
Tillage system including the additional renovation of soil properties in tramlines.	LAMMC	Dr. Danutė Jablonskytė - Raščė
Possibilities of using a combination of bioherbicides and reduced rates of synthetic fertilizers in a sustainable farming system	LAMMC	Dr. Daiva Janušauskaitė
Multifunctional swards: biodiversity, climate change mitigation and soil health in circular and sustainable agriculture (MultifunSWARD)	LAMMC	Dr. Kristina Jaškūnė
Adaptivity to abiotic stress and biomass formation under unfavourable conditions in perennial forage grasses	LAMMC	Dr. Kristina Jaškūnė
Complex influence of abiotic and biotic factors to the qualitative parameters of garlic (<i>Allium sativum L.</i>) during growth and storage.	LAMMC	Dr. Danguolė Juškevičienė
Significance of soil structure for accumulation potential of organic carbon, phosphorus and nitrogen in different agroecosystems	LAMMC	Dr. Danutė Karčauskienė
Complex effects of abiotic and biotic factors on the generative development of field vegetables.	LAMMC	Dr. Rasa Karklelienė
Competitive stress management and optimization of apple productivity potential by modeling the height of fruit trees in a dwarf apple orchard	LAMMC	Dr. Juozas Lanuskas
Effects of controlled environment on photosynthetic system response and productivity in leafy vegetables	LAMMC	Dr. Kristina Laužikė
Selection of alfalfa genotypes with different tolerance to mobile aluminum under controlled and natural soil conditions.	LAMMC	Dr. Aurelijा Liatukienė
Development and evaluation of winter wheat varieties suitable for organic and sustainable cultivation	LAMMC	Dr. Žilvinas Liatukas
Changes in the concentrations of mobile macroelements in the soil during the fertilization with granular organic and organic mineral fertilizers	LAMMC	Dr. Romas Mažeika
Genetical diversity, breeding value and agrobiological evaluation of native birdsfoot trefoil (<i>Lotus corniculatus L.</i>) populations	LAMMC	Dr. Eglė Norkevičienė

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Adaptive agrotechnical measures for the stability of crops productivity under changing climate	LAMMC	Dr. Virmantas Povilaitis
The composition of horticultural plants rhizosphere pathogens, spread and harmfulness of root diseases.	LAMMC	Dr. Neringa Rasiukevičiūtė
Studies on the adaptability of plants to abiotic factors and cryopreservation conditions	LAMMC	Dr. Rytis Rugienius
Biofortification of leafy vegetables through targeted agrotechnologies	LAMMC	Dr. Giedrė Samuolienė
The effects of crop diversification on soil-borne pathogens in no-tillage system	LAMMC	Dr. Skaidrė Supronienė
Improvement of soil properties and plant productivity, research of adaptation of native and introduced plant species to different soil acidity levels	LAMMC	Dr. Gintaras Šiaudinė
Characterization and engineering of the plant microbiome to enhance plant adaptivity	LAMMC	Dr. Inga Tamošiūnė
Impact of root system improving measures on agroecosystem productivity and climate change mitigation	LAMMC	Dr. Monika Toleikienė
Impact of antifungal substances in plant extracts and oils on the spread and damage control of horticultural crop diseases	LAMMC	Dr. Alma Valiuškaitė
The management of mineral nutrition to control the quality and safety of post-harvest vegetables	LAMMC	Dr. Viktorija Vaštakaitė-Kairienė
The role of microplastics in the functioning of the agroecosystem	LAMMC	Dr. Monika Vilkiienė
Biotic and abiotic elicitors for enrichment of targeted secondary metabolites in medicinal plants in controlled environment cultivation systems	LAMMC	Dr. Akvilė Viršilė
Assessment of biologically active substances and quality changes during fruit and vegetable processing, modeling of technological processes, development of innovative product prototypes.	LAMMC	Dr. Jonas Viškelis
Calculation and adaptation of soil quality index in soils of different agro-ecological potential of Lithuanian agro-ecosystems.	LAMMC	Dr. Jonas Volungevičius

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