



PROGRAMME

2 December (Wednesday)

CE Time

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EE Time
add +1⁰⁰)

Plenary Session [Click here to join Plenary Session](#)

Moderators: Zita Kriaučiūnienė, Vaclovas Bogužas

9⁰⁰-9¹⁰

Opening of the Conference AgroEco2020

Aušra Blinstrubienė, Vytautas Magnus University Agriculture Academy, Lithuania; Zenonas Dabkevičius, Lithuanian Academy of Sciences

9¹⁰-9³⁰

A mission for European soils – The Horizon Europe mission area ‘Soil health and food’

Cees Veerman, Chair of the EC Mission Board for Soil Health and Food, Netherlands; Zita Kriaučiūnienė, member of the EC Mission Board for Soil Health and Food; Vytautas Magnus University, Agriculture Academy, Lithuania

9³⁰-9⁵⁰

European Infrastructure for Analysis and Experimentation on Ecosystems – AnaEE

Michel Boër, AnaEE Director General, France

9⁵⁰-10¹⁰

Agroecology and sustainable yields – the position of the BIOEAST initiative

Dora Drexler, Hungarian Research Institute of Organic Agriculture, Hungary

10¹⁰-10²⁵

Coffee, tea break

10²⁵-10⁴⁵

Economics and environmental potential of data fusion-based variable rate applications in precision agriculture

Abdul M. Mouazen, Ghent University, Belgium

10⁴⁵-11⁰⁵

Weeds in the agroecosystem

Inderjit Singh, University of Delhi, India

11⁰⁵-11²⁵

The influence of organic and conventional production on the bioactive compounds content in food products

Ewelina Hallmann, Warsaw University of Life Sciences, Poland

11²⁵-11⁴⁵

Circular bioeconomy in the context of food chain management

Renata Marks-Bielska, University of Warmia and Mazury in Olsztyn, Poland

11⁴⁵-12⁰⁰

Remarks and discussions

Moderators: Aušra Blinstrubienė, Vaclovas Bogužas, Zita Kriaučiūnienė, Cees Veerman, Michel Boër, Dora Drexler, Abdul M. Mouazen, Inderjit Singh, Ewelina Hallmann, Renata Marks-Bielska

12⁰⁰–13⁰⁰ **Lunch**

Parallel Session I [Click here to join Parallel Session I](#)
Moderators: Rimantas Vaisvalavičius, Elvyra Jarienė

Soil health and C sequestration for sustainability

13⁰⁰–13¹⁵ **The effects of saptopel humic substances application on soddy podzolic soil chemical properties**

Livija Zarina, *Institute of Agricultural Resources and Economics, Latvia*;
Olegs Kukainis, Simona Larsson, *Latvian Institute of Humic Substances*; Liga Zarina, *University of Latvia*

13¹⁵–13³⁰ **Methane fluxes from forest soils under trees of different ages and species**

Anna Walkiewicz, Piotr Bulak, *Institute of Agrophysics, Polish Academy of Science, Lublin, Poland*; Mohammad I. Khalil, *University College Dublin*; Prudence College Dublin, *Ireland*; Bruce Osborne, *University College Dublin, Ireland*

13³⁰–13⁴⁵ **Land use change response on an allocation of organic carbon in the uppermost mineral soil layers**

Jūratė Aleinikovienė, *Vytautas Magnus University Agriculture Academy, Lithuania*; Kęstutis Armolaitis, Jelena Ankuda, *Lithuanian Research Centre for Agriculture and Forestry*; Audrius Jakutis, *Vytautas Magnus University Agriculture Academy, Lithuania*; Diana Sivojienė, Valeriia Mishcherikova, *Lithuanian Research Centre for Agriculture and Forestry*

13⁴⁵–14⁰⁰ **Carbon balances of annual versus perennial cropping systems**
Ji Chen, Johannes Wilhelmus Maria Pullens, Poul Erik Lærke, *Aarhus University, Denmark*

14⁰⁰–14¹⁵ **Carbon stocks in the soil under different combination of tillage and organic fertilization**

Monika Vilkienė, Ieva Mockevičienė, Dalia Ambrazaitienė, Danute Karčauskienė, *Lithuanian Research Centre for Agriculture and Forestry*

14¹⁵–14³⁰ **Depth-related changes in soil enzyme activities and physicochemical properties in the soil profiles**

Anna Piotrowska-Długosz, Jacek Długosz, *UTP University of Science and Technology in Bydgoszcz, Poland*

Food quality and safety

14³⁰–14⁴⁵ **Studies of the variability of polyphenols and carotenoids in different methods fermented organic leaves of willowherb (*Chamerion angustifolium* (L.) Holub)**

Marius Lasinskas, Elvyra Jarienė, Nijolė Vaitkevičienė, Jurgita Kulaitienė, *Vytautas Magnus University Agriculture Academy, Lithuania*; Katarzyna Najman, Ewelina Hallmann, *Warsaw University of Life Sciences, Poland*

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| 14 ⁴⁵ –15 ⁰⁰ | Impact of foliar application of amino acids on essential oil content, total phenols and antioxidant activity of <i>M. piperita</i> Aloyzas Velička, Živilė Tarasevičienė, Aurelija Paulauskienė, <i>Vytautas Magnus University Agriculture Academy, Lithuania</i> |
| 15 ⁰⁰ –15 ¹⁵ | Quality changes of the sea buckthorn juice during storage Judita Černiauskienė, Nijolė Vaitkevičienė, Jurgita Kulaitienė, Laura Makūnaitė, <i>Vytautas Magnus University Agriculture Academy, Lithuania</i> |
| 15 ¹⁵ –15 ³⁰ | Lutein, zeaxanthin, α, β-carotenes and lycopene in rosehip fruit flesh during ripening Jurgita Kulaitienė, Brigita Medveckienė, Dovilė Levickienė <i>Vytautas Magnus University Agriculture Academy, Lithuania</i> |
| Parallel Session II Click here to join Parallel Session II Moderators: Vaclovas Bogužas, Vilija Aleknevičienė | |
| Soil and crop management towards a chemical pesticide-free agriculture | |
| 13 ⁰⁰ –13 ¹⁵ | Nitrous oxide dynamics in agricultural soils in response to nitrification inhibitor and N-fertilizer amount Azeem Tariq, Klaus Steenberg Larsen, Line Vinther Hansen, Lars Stoumann Jensen, Sander Bruun, <i>University of Copenhagen, Denmark</i> |
| 13 ¹⁵ –13 ³⁰ | Septoria leaf blotch development depending on winter wheat variety Gunita Bimšteine, Kristaps Ieviņš, Jānis Kaņeps, <i>Latvia University of Life Sciences and Technologies</i> |
| 13 ³⁰ –13 ⁴⁵ | Leaf spot diseases as an emerging problem in <i>Chaenomeles japonica</i> plantations Inta Jakobija, Alise Klūga, <i>Latvia University of Life Sciences and Technologies; Institute for Plant Protection Research "AgriHORTS", Latvia</i> ; Biruta Bankina, <i>Latvia University of Life Sciences and Technologies</i> |
| 13 ⁴⁵ –14 ⁰⁰ | Effects of bio-preparations on soil and carbon footprint Zita Kriaučiūnienė, Darius Juknevičius, Aida Adamavičienė, Sidona Buragienė, Egidijus Šarauskius, <i>Vytautas Magnus University Agriculture Academy, Lithuania</i> |
| 14 ⁰⁰ –14 ¹⁵ | Impact of biochar on heavy metals and crop yield under different moisture regimes Muhammad Ayaz, Urtė Stulpinaitė, Dalia Feizienė, Vita Tilvikienė, <i>Lithuanian Research Center for Agriculture and Forestry</i> |
| 14 ¹⁵ –14 ³⁰ | Application of microbiological products in beans under organic farming conditions Sonata Kazlauskaite, Povilas Mulercikas, Aurimas Krasauskas, <i>Vytautas Magnus University Agriculture Academy, Lithuania</i> |

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| 14 ³⁰ –14 ⁴⁵ | <p>Development of tan spot depending on fungicide treatment schemes and nitrogen rates Agrita Švarta, Gunita Bimšteine, Jānis Kaņeps, <i>Latvia University of Life Sciences and Technologies</i></p> |
| <i>The role of circular bioeconomy in climate change mitigation</i> | |
| 14 ⁴⁵ –15 ⁰⁰ | <p>Bioeconomy development in Lithuania: cases for sustainable change Vilija Aleknevičienė, <i>Vytautas Magnus University Agriculture Academy, Lithuania</i></p> |
| 15 ⁰⁰ –15 ¹⁵ | <p>The impact of the use of mineral nitrogen fertilizers on GHG emissions and mitigation using economic instruments Aušra Nausėdienė, Astrida Miceikienė, <i>Vytautas Magnus University Agriculture Academy, Lithuania</i></p> |
| 15 ¹⁵ –15 ³⁰ | <p>Comparative assessment of the sustainability performance of glue laminated timber and non-renewable material-based value chains Edgaras Linkevičius, <i>Vytautas Magnus University Agriculture Academy, Lithuania</i>; Marius Aleinikovas, Povilas Žemaitis, <i>Lithuanian Research Centre for Agriculture and Forestry</i></p> |
| <p>Parallel Session III Click here to join Parallel Session III Moderators: Kęstutis Romaneckas, Aida Adamavičienė, Aušra Marcinkevičienė</p> | |
| <i>Biodiversity, crop and production diversification</i> | |
| 13 ⁰⁰ –13 ¹⁵ | <p>Agronomic and grain quality responses to fertilizer management in hulled and hullless barley Mara Bleidere, Margita Damskalne, Veneranda Stramkale, Sanita Zute, <i>Institute of Agricultural Resources and Economics, Latvia</i></p> |
| 13 ¹⁵ –13 ³⁰ | <p>Response of plants to seed processing with cold plasma, vacuum and electromagnetic field Vida Mildažienė, Anatolii Ivankov, Rasa Žukienė, Zita Naučienė, Asta Malakauskienė, <i>Vytautas Magnus University Agriculture Academy, Lithuania</i>, Irina Filatova, Veronika Lyuskevich, <i>B. I. Stepanov Institute of Physics, National Academy of Sciences of Belarus</i>, Kazunori Koga, Masaharu Shiratani, <i>Kyushu University, Japan</i></p> |
| 13 ³⁰ –13 ⁴⁵ | <p>Influence of the symbiotic bacteria <i>Paenibacillus</i> sp. on the viability of European larch (<i>Larix decidua</i> Mill.) explants in vitro Evelina Zavtrikovienė, Jonas Žiauka, <i>Lithuanian Research Centre for Agriculture and Forestry</i></p> |
| 13 ⁴⁵ –14 ⁰⁰ | <p>Conservation tillage in faba bean cultivation: weed flora Rasa Kimbirauskienė, Kęstutis Romaneckas, Aušra Sinkevičienė, Aida Adamavičienė, Sidona Buragienė, <i>Vytautas Magnus University Agriculture Academy, Lithuania</i></p> |

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| 14 ⁰⁰ –14 ¹⁰ | <p>Economical evaluation of reduced intensity tillage systems, straw and green manure combinations Asta Bendoraitė, Vaida Steponavičienė, Vaclovas Bogužas, Lina Skinulienė, Aušra Sinkevičienė, <i>Vytautas Magnus University Agriculture Academy, Lithuania</i></p> |
| 14 ¹⁰ –14 ²⁰ | <p>Influence of urease inhibitor and biopreparations on maize productivity Povilas Drulis, Zita Kriaučiūnienė, <i>Vytautas Magnus University Agriculture Academy, Lithuania</i></p> |
| 14 ²⁰ –14 ³⁰ | <p>Complex of soil tillage, organic and biological fertilization for improving soil microbial activity and nitrogen transformation efficiency in intensive cropping on <i>Calcaric Luvisols</i> Jūratė Aleinikovienė, Lina Marija Butkevičienė, Audrius Jakutis, Vaclovas Bogužas, <i>Vytautas Magnus University Agriculture Academy, Lithuania</i></p> |
| 14 ³⁰ –14 ⁴⁵ | <p>Less known <i>Botrytis</i> species as causal agent of legume diseases Elina Brauna-Morževska, Janis Kaņeps, Biruna Bankina, Gunita Bimšteine, <i>Latvia University of Life Sciences and Technologies</i>; Ance Roga, Ingrida Neusa-Luca, Davids Fridmanis, <i>Latvian Biomedical Research and Study Centre, Latvia</i></p> <p><i>Precision farming and digital technologies</i></p> |
| 14 ⁴⁵ –15 ⁰⁰ | <p>Efficiency of detection of particles by high-speed cameras in splash erosion studies Agata Sochan, Magdalena Ryzak, Michał Beczek, Rafał Mazur, Cezary Polakowski, <i>Institute of Agrophysics PAS, Poland</i>; Zbigniew Łagodowski, Ernest Nieznaj, Adam Bobrowski, <i>Lublin University of Technology, Poland</i>; Andrzej Bieganowski, <i>Institute of Agrophysics PAS, Lublin, Poland</i></p> |
| 15 ⁰⁰ –15 ¹⁵ | <p>Telemetry – for remote monitoring of the agricultural processes and the environment Antanas Juostas, Eglė Jotautienė, <i>Vytautas Magnus University Agriculture Academy, Lithuania</i></p> |
| 15 ¹⁵ –15 ³⁰ | <p>Investigation of granular organic fertilizer distribution in soil using computer simulation Raimonda Zinkevičienė, Eglė Jotautienė, <i>Vytautas Magnus University Agriculture Academy, Lithuania</i></p> |
| 15 ³⁰ –16 ⁰⁰ | <p>Concluding remarks and discussions Moderators: Zita Kriaučiūnienė, Rimantas Vaisvalavičius, Elvyra Jarienė, Vaclovas Bogužas, Vilija Aleknevičienė, Kęstutis Romaneckas, Aušra Marcinkevičienė, Aida Adamavičienė</p> |

3 December (Wednesday)

**CE Time
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Webinar AnaEE (Analysis and Experimentation on Ecosystems, <https://www.anaee.eu/>) on data, modelling and access to the platform. AnaEE will also present the services offered by the Research Infrastructure and how it enables to develop multidisciplinary approaches at the frontiers of life sciences, agronomy and environmental sciences, combining experimentation, analysis and modelling services.

[Click here to join Webinar AnaEE](#)

Moderators: Michel Boër, Sarah Mahe

9⁰⁰-9²⁵

Welcome address and introduction to AnaEE, its services and the Central Hub – AnaEE as facilitator of integrated experimental research in Europe

Michel Boër, AnaEE Director General, France

9²⁵-10²⁵

AnaEE web services – fund raising, a rich platform catalogue of services and how the access portal works (showcase)

Sarah Mahé, AnaEE, Chloé Martin, CNRS, Florent Massol, CNRS, France

10²⁵-10⁴⁰

Coffee, tea break

10⁴⁰-11¹⁵

The AnaEE Data & Modelling Centre – sharing FAIR data and integrating modelling in AnaEE

Dario De Nart, CREA, Italy

11¹⁵-11³⁰

AnaEE in ENVRIFAIR

Christian Pichot, INRAE, France

11³⁰-11⁴⁵

Example of FAIRification of data from AnaEE Denmark

Klaus Steenberg Larsen, UCPH, Denmark

11⁴⁵-12⁰⁰

The AnaEE Technology Centre – doing experiments together

Klaus Steenberg Larsen, UCPH, Denmark

12⁰⁰-12³⁰

The AnaEE Interface & Synthesis Centre – doing syntheses together

Karel Klem, Global Change Research Institute CAS, Czech Republic

12³⁰-13³⁰

Lunch

13³⁰-14⁰⁰

Added value of ecotrons in AnaEE

Alexandre Milcu, CNRS, France

14⁰⁰-14⁰⁶

Analytical and enclosed platforms at VMU AA

Zita Kriaučiūnienė, Vytautas Magnus University Agriculture Academy, Lithuania

14⁰⁶-14¹²

Long-term forest ecosystem monitoring and modeling platform

Algirdas Augustaitis, Vytautas Magnus University Agriculture Academy, Lithuania

14¹²-14¹⁸

An aquacosc platform targeting controlled drainage system and constructed wetland manipulations

Arvydas Povilaitis, Vytautas Magnus University Agriculture Academy, Lithuania

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| 14 ¹⁸ – 14 ²⁴ | Agroecosystem manipulation platform at VMU AA Vaclovas Bogužas, <i>Vytautas Magnus University Agriculture Academy, Lithuania</i> |
| 14 ²⁴ – 14 ³⁰ | Plant phenotyping platforms at LAMMC Gintaras Brazauskas, <i>Director of Lithuanian Research Centre for Agriculture and Forestry</i> |
| 14 ³⁰ – 14 ⁵⁰ | Presentation on FATI-Platform Simon Reynaert, A. Hans De Boeck, Ivan Nijs, <i>University of Antwerpen, Belgium</i> |
| 14 ⁵⁰ – 15 ⁰⁵ | Coffee, tea break |
| 15 ⁰⁵ – 15 ²⁵ | Presentation about co-location sites Taneli Kolström, <i>Natural Resources Institute, Finland</i> |
| 15 ²⁵ – 16 ⁰⁰ | Concluding remarks and discussions |

Poster presentations

[Click here to join Poster Presentations and see Abstracts Book](#)

Soil health and C sequestration for sustainability

- The influence of different nitrogen forms of fertilizers and meteorological conditions on nitrogen transformation and evaporation**
Irena Pranckietienė, Rūta Dromantienė, *Vytautas Magnus University Agriculture Academy, Lithuania*
- Dynamics of changes in selected soil traits in the profiles of arable soils anthropogenically alkalised with in the Kielecko-Łagowski Vale (Poland)**
Anna Swiercz, Agnieszka Gandzel, Ilona Tomczyk-Wydrych, *Institute of Geography and Environmental Science Jan Kochanowski University in Kielce, Doctoral Scholl of the Jan Kochanowski University, Poland*
- Comparison of the effect of perlite and vermiculite on the moisture retention**
Darija Jodaugienė, Rita Čepulienė, Irena Pranckietienė, Rūta Dromantienė, *Vytautas Magnus University Agriculture Academy, Lithuania*
- Biochar systems as carbon storage technique in agriculture: dealing with a new pharmakon**
Samuel Abiven, *CNRS, Montpellier European Ecotron, CEREAP-Ecotron IleDe, Universite Paris, France*
- Diurnal soil CO₂ efflux variations in mature Scot Pine (*Pinus sylvestris*) stands**
Osvaldas Kučinskas, *Vytautas Magnus University Agriculture Academy, Lithuania*
- The physical-mechanical properties evaluation of experimental granulated poultry manure and biofuel ash fertilizer**
Ramūnas Mioldažys, Eglė Jotautienė, Algirdas Jasinskas, *Vytautas Magnus University Agriculture Academy, Lithuania*
- Specific soil microorganisms effect on soil organic matter stabilization and quality parameters under drought conditions**
Arnoldas Jurys, Dalia Feizienė, *Lithuanian Research Centre for Agriculture and Forestry*

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8. **Water stable soil aggregates under the different fertilizer treatments**
Rimantas Vaisvalavičius, Vytautas Magnus University Agriculture Academy,
Lithuania; Romutė Mikučionienė, *Lithuanian Agricultural Advisory Service*
-

Soil and crop management towards a chemical pesticide-free agriculture

9. **The influence of organic mulches on beetroot (*Beta vulgaris* L.) agrocenosis**
Alfредas Sinkevičius, Nida Palubinckaitė, Vaclovas Bogužas, Vaida Steponavičienė, Lina Skinulienė, Aušra Sinkevičienė, *Vytautas Magnus University Agriculture Academy, Lithuania*
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10. **Effect of different tillage on soil properties in winter rape crop**
Darija Jodaugienė, Aušra Sinkevičienė, Vaida Steponavičienė, Lina Skinulienė, Tautvydas Žemaitis, *Vytautas Magnus University Agriculture Academy, Lithuania*
-
11. **Organic mulches in vegetable crops**
Irena Zemblienė, Rita Pupalienė, *Vytautas Magnus University Agriculture Academy, Lithuania*
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12. **Long-term crop rotation and fertilisation effect on soil organic matter dynamics in sustainable agriculture management systems**
Laura Masilionytė, *Lithuanian Research Centre for Agriculture and Forestry*, Zita Kriaučiūnienė, Egidijus Šarauskis, *Vytautas Magnus University Agriculture Academy, Lithuania*; Aušra Arlauskienė, Danutė Jablonskytė Raščė, *Lithuanian Research Centre for Agriculture and Forestry*
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13. **The influence of non-chemical weed control on the productivity of spring oilseed rape**
Rita Mockevičienė, Rimantas Velička, Aušra Marcinkevičienė, *Vytautas Magnus University Agriculture Academy, Lithuania*
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14. **Multifunctional agrocenoses biodiversity, sustainability and functionality in short vegetation conditions**
Jovita Balandaitė, Kęstutis Romaneckas, Rasa Kimbirauskienė, Aušra Sinkevičienė, Algirdas Jasinskas, Kęstutis Stravinskas, Matas Skruzdydys, *Vytautas Magnus University Agriculture Academy, Lithuania*
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15. **The influence of biological preparations and their mixtures on soil properties in winter wheat**
Lina Marija Butkevičienė, Vaclovas Bogužas, Vaida Steponavičienė, Tadas Kerdokas, *Vytautas Magnus University Agriculture Academy, Lithuania*
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16. **Impact of tillage intensity with vertical soil stratification on soil physical quality indexes**
Inga Andruškaitė, Vaclovas Bogužas, *Vytautas Magnus University Agriculture Academy, Lithuania*
-
17. **Susceptibility of different varieties of tulips to viral diseases**
Sonata Kazlauskaite, Arūnas Balsevičius, Indre Lukšytė, Rita Maršelienė, Ričardas Narijauskas, *Vytautas Magnus University Agriculture Academy, Lithuania*
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18. **Evaluation of potato varieties and clones of breeding material in the integrated farming vai management system in the North Kurzeme region of Latvia**
Lidija Vojevoda, Ilze Skrabule, *Institute of Agricultural Resources and Economics, Centre Crop Research Department, Latvia*
-

Biodiversity, crop and production diversification

19. **Effects of subsequent drought events and abilities to recover of alfalfa and ryegrass forage crops**
Giedrė Kacienė, Aušra Dikšaitytė, Diana Miškelytė, Gintarė Sujetovienė, Jūratė Žaltauskaitė, Irena Januškaitienė, Romualdas Juknys, *Vytautas Magnus University, Faculty of Natural Sciences, Lithuania*
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20. **Influence of fiber hemp crop density on weeds and productivity**
Aušra Sinkevičienė, Eimantas Eigirdas, Vaclovas Bogužas, Lina Skinulienė, Vaida Steponavičienė, Karolis Bilkevičius, *Vytautas Magnus University Agriculture Academy, Lithuania*
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21. **The effect of long-term crop rotation on the amount of weed seeds in the soil**
Lina Skinulienė, Vaclovas Bogužas, Aušra Sinkevičienė, Vaida Steponavičienė, Rimantas Martusevičius, *Vytautas Magnus University Agriculture Academy, Lithuania*
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22. **Weed spreading in the multi-cropping system**
Aušra Rudinskienė, Aušra Marcinkevičienė, Rimantas Velička, Zita Kriaučiūnienė, Robertas Kosteckas, *Vytautas Magnus University Agriculture Academy, Lithuania*
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23. **Conservation tillage in faba bean cultivation: weed seed bank**
Aida Adamavičienė, Kęstutis Romaneckas, Rasa Kimbirauskienė, Aušra Sinkevičienė, Sidona Buragienė, *Vytautas Magnus University Agriculture Academy, Lithuania*
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24. **The changes of chlorophyll fluorescence parameters of *Medicago sativa* under drought stress and recovery after it**
Irena Januškaitienė, Aušra Dikšaitytė, Jūratė Žaltauskaitė, Gintarė Sujetovienė, Giedrė Kacienė, Diana Miškelytė, Romualdas Juknys, *Vytautas Magnus University, Faculty of Natural Sciences, Lithuania*
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25. **The effect of the bioproducts on the incidence of septoria leaf blotch in winter wheat crops**
Jolanta Sinkevičienė, Juozas Pekarskas, *Vytautas Magnus University Agriculture Academy, Lithuania*
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26. **Incidence of seed-borne fungi in winter wheat and spring barley seeds**
Jolanta Sinkevičienė, Aurelija Šaluchaitė, *Vytautas Magnus University Agriculture Academy, Lithuania*
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27. **The influence of different soil moisture conditions and nitrogen rates on the forage grasses productivity**
Aušra Marcinkevičienė, Robertas Kosteckas, Zita Kriaučiūnienė, Rimantas Velička, Inga Adamonytė, Aušra Rudinskienė, *Vytautas Magnus University Agriculture Academy, Lithuania*
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28. **The effect of sowing time on *Alternaria Brassicae* and *Phyllotreta Nemorum* L. spreading in spring oilseed rape crop**
Silvija Kosteckienė, Rimantas Velička, Lina Marija Butkevičienė, Zita Kriaučiūnienė, Robertas Kosteckas, Rita Pupalienė, *Vytautas Magnus University Agriculture Academy, Lithuania*
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29. **Forage quality of semi-natural and cultural grasslands in the ecological farm**
Vaclovas Stukonis, Vilma Kemešytė, Vilma Živatkauskienė, *Lithuanian Research Centre for Agriculture and Forestry*
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30. **Influence of seed rate and row space on winter wheat yield and grain quality**
 Vija Strazdina, Solveiga Malecka, Margita Damskalne, Valentina Fetere, *Institute of Agricultural Resources and Economics, Latvia*
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31. **Crop rotation outperform organic and conventional cropping systems in structuring soil microbial communities**
 Keyvan Esmaeilzadeh-Salestani, Viacheslav Ereemeev, Liina Talgre, Banafsheh Khaleghdoust, Evelin Loit, *Estonian University of Life Sciences*
-
32. **Leaf senescence of spring wheat in contrasting agroecosystems**
 Daiva Janušauskaitė, Dalia Feizienė, Virginijus Feiza, *Lithuanian Research Centre for Agriculture and Forestry*

Precision farming and digital technologies

33. **The aspects of splash erosion in the eye of high-speed camera**
 Michal Beczek, Rafał Mazur, Magdalena Ryżak, Agata Sochan, Cezary Polakowski, Andrzej Bieganowski, *Institute of Agrophysics, Polish Academy of Sciences, Lublin, Poland*

Food quality and safety

34. **Changes in the mineral content of wild stinging nettle (*Urtica dioica* L.) as influenced by the harvesting time**
 Aurelija Paulauskienė, Živilė Tarasevičienė, Vanesa Šliažaitė, *Vytautas Magnus University Agriculture Academy, Lithuania*
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35. **Quality evaluation of honey**
 Rūta Kuzmaitė, Elvyra Jarienė, *Vytautas Magnus University Agriculture Academy, Lithuania*
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36. **Effect of freezing on the chemical composition of strawberries**
 Aurelija Paulauskienė, Živilė Tarasevičienė, Ieva Burbulytė, *Vytautas Magnus University Agriculture Academy, Lithuania*
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37. **The content of macroelements in the peel and flesh of fruit of pear cultivars**
 Jaunė Blažytė, Nijolė Vaitkevičienė, *Vytautas Magnus University Agriculture Academy, Lithuania*
-
38. **Polyphenols content in rosehips flesh *R. Rugosa* and *R. Canina* during ripening**
 Brigita Medveckienė, Jurgita Kulaitienė, *Vytautas Magnus University Agriculture Academy, Lithuania*
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39. **Influence of encapsulation materials on the PHYSICO chemical properties of blackberry powder produced by spray drying**
 Živilė Tarasevičienė, Rokas Kondrotas, Indrė Čechovičienė, Aurelija Paulauskienė, *Vytautas Magnus University Agriculture Academy, Lithuania*
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40. **The comparative analysis of physicochemical properties, amino and fatty acids profile of musculus longissimus dorsi between late and fast matured cattle breed**
 Vigilijus Jukna, Edita Meškinytė-Kaušilienė, Žydrūnė Stanevičienė, Živilė Tarasevičienė, Paulius Bekampis, *Vytautas Magnus University Agriculture Academy, Lithuania*
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