

ANNOUNCEMENT II

DOCTORAL SCHOOL OF THE UNIVERSITY OF LIFE SCIENCES IN LUBLIN



have the pleasure to invite you to the event

4th International PhD Students' Conference: Environment-Plant-Animal-Product (I-SDUPL)

together with the

Information campaign on the Lublin Digital Union (LUC) – digital solutions and artificial intelligence in medical, natural and technical sciences

9 April, 2025
hybrid format

JM Rector
of the University of Life Sciences in Lublin
prof. dr hab. Krzysztof Kowalczyk

Vice-Rector for Science and International Cooperation
of the University of Life Sciences in Lublin
prof. dr hab. Bartosz Sołowiej

Director of Doctoral School
of the University of Life Sciences in Lublin
prof. dr hab. Katarzyna Ognik

ANNOUNCEMENT II

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Lublin, Poland

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PhD **Szymon Chmielewski**; University of Life Sciences in Lublin, Poland

PhD **Beata Biernacka**; University of Life Sciences in Lublin, Poland

PhD **Justyna Libera**; University of Life Sciences in Lublin, Poland

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Lublin, Poland

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Melbourne, Australia

prof. **Paulius Matusevicius**; Lithuanian University of Health Sciences, Lithuania

prof. **Igor Tomašević**; University of Belgrade, Serbia

prof. **Joan García**; Universitat Politècnica de Catalunya-BarcelonaTech, Spain

prof. **Anabela Cândida Ramalho Durão**; Instituto Politécnico de Beja, Portugal

dr hab. **Viktor Korzun**; Global Lead Scientific Affairs, KWS SAAT SE & Co. KGaA,
Germany

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Lithuania

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PhD **Shubiao Wu**, associate prof.; Aarhus University, Denmark

PhD **Alexandros Stefanakis**, associate prof.; Technical University of Crete,
Greece

PhD **Laura Wendling**; SINTEF, Trondheim, Norway

ANNOUNCEMENT II

ORGANIZING COMMITTEE FROM THE UNIVERSITY OF LIFE SCIENCES IN LUBLIN

prof. dr hab. Katarzyna Ognik – Head of the Committee
PhD Małgorzata Wysocka – Secretary of the Event
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prof. dr hab. Tomasz Oniszczyk
dr hab. Dagmara Stępień-Pyśniak, prof. uczelni
dr hab. Barbara Sowińska-Świerkosz, prof. uczelni
dr hab. Anna Stępniewska
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MA Anna Buchlińska-Brzozowska
MSc Eliza Samborska
MSc Karolina Józwiakowska
MSc Kamila Kaszycka, PhD student
DVM Aleksandra Marzec, PhD student
MSc Radosław Smagieł, PhD student

MSc Szymon Milewski, PhD student
MSc Julia Fabjanowska, PhD student
MSc Aleksandra Garbacz, PhD student
MSc Kamila Janicka, PhD student
MSc Karolina Różaniecka-Zwolińska, PhD student
MSc Maciej Bryś, PhD student
MSc Maria Stasińska-Jakubas, PhD student
MSc Anna Lipian-Głós, PhD student
MSc Weronika Kursa, PhD student
MSc Jakub Soja, PhD student
MSc Magdalena Moczulska, PhD student
MSc Robert Waraczewski, PhD student
MSc Michał Arciszewski, PhD student
MSc Karolina Sokal, PhD student
MSc Rafał Wnuczek, PhD student
MSc Jordan Wilk, PhD student
MSc Klaudia Rząd, PhD student
MSc Piotr Nawłatyna, PhD student
Michał Staniak, student

VENUE

The 4th International PhD Students' Conference: Environment-Plant-Animal-Product (I-SDUPL), together with the Information campaign on the Lublin Digital Union (LUC)—digital solutions and artificial intelligence in medical, natural, and technical sciences—will be held at the University of Life Sciences in Lublin. It will have a hybrid format. Stationary events will be held at the Congress Hall and Conference Halls of the University of Life Sciences in Lublin, Akademicka 15 Street, Lublin.

ANNOUNCEMENT II

TARGET GROUPS

We invite high school students to participate in Panel I.

We invite PhD students from doctoral schools, PhD students of universities, research and scientific institutes, graduates of studies, and young researchers to participate in the event.

WEB SITE

<https://up.lublin.pl/szkola-doktorska/konferencja/>



KEY DATES

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| 1 st ANNOUNCEMENT AND FRAMEWORK PROGRAMME | February 17 th , 2025 |
| REGISTRATION DEADLINE | March 23 rd , 2025 |
| ABSTRACT SUBMISSION | March 23 rd , 2025 |
| DEADLINE FOR PAYMENT | March 23 rd , 2025 |
| 2 nd ANNOUNCEMENT AND FULL PROGRAMME | April 1 st , 2025 |

ANNOUNCEMENT II

| FRAMEWORK PROGRAMME | |
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| 8 ³⁰ -9 ⁰⁰ | Registration of participants (Congress Hall of the University of Life Sciences in Lublin) |
| | PANEL I - LUC Information Campaign |
| 9 ⁰⁰ -9 ²⁵ | <p>Opening ceremony: Congress Hall of the University of Life Sciences in Lublin (<i>hybrid format</i>)</p> <p>Appearances:</p> <p>prof. dr hab. Katarzyna Ognik – Director of Doctoral School at the University of Life Sciences in Lublin</p> <p>prof. dr hab. Krzysztof Kowalczyk – JM Rector of the University of Life Sciences in Lublin</p> <p>prof. dr hab. Bartosz Sołowiej – Vice-Rector for Science and International Cooperation of the University of Life Sciences in Lublin</p> <p>dr hab. Urszula Kosior-Korzecka, associate prof. – Vice-Rector for Student Affairs and Education</p> <p>MSc Anna Nieczaj– Chairman of the Polish Association of Doctoral Candidates (KRD)</p> <p>prof. dr hab. Robert Rejda – Head of the Department and Clinic of Ophthalmology, Medical University of Lublin; Chairman of the project “Lubelska Unia Cyfrowa – Wykorzystanie rozwiązań cyfrowych i sztucznej inteligencji w medycynie – projekt badawczy”</p> |
| 9 ²⁵ -9 ³⁰ | Lublin Digital Union LUC – a film promoting the project |
| | Inaugural lectures: |
| 9 ³⁰ -10 ⁰⁰ | <p><i>ChatGPT Lies?! How (Not) to Trust Artificial Intelligence</i></p> <p>Marek Staniszewski</p> <p>Heurisca Warszawa</p> |
| 10 ⁰⁰ -10 ²⁰ | <p><i>Application of artificial intelligence in diagnosing eye diseases</i></p> <p>prof. dr hab. n. med. Katarzyna Nowomiejska</p> <p>Department and Clinic of General and Pediatric Ophthalmology, Medical University of Lublin</p> |
| 10 ²⁰ -10 ⁴⁰ | <p><i>Brain under tension: Digital stimuli and mental health of young people</i></p> <p>prof. dr hab. n. med. Hanna Karakuła-Juchnowicz</p> <p>Clinic of Psychiatry, Psychotherapy and Early Intervention, Medical University of Lublin</p> |
| 10 ⁴⁰ -11 ⁰⁰ | <p><i>AI opportunity or threat?</i></p> <p>dr hab. Dariusz Czerwiński, associate prof.</p> |

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| | Vice-Dean of the Faculty of Mathematics and Technical Computer Science, Lublin University of Technology | |
| 11⁰⁰-11¹⁵ | <p><i>Twin Transition in the European Cosmetics Industry: a survey-based investigation about drivers, barriers, and main strategies implemented to pursue Digital and Green Transitions</i></p> <p>Daniele Perossa (online) Lecturer at the Polytechnic University of Milan, Department of Management, Economics and Engineering</p> | |
| 11¹⁵-11⁴⁰ | <p>Coffee break The lobby of the Congress Hall of the University of Life Sciences in Lublin (<i>stationary format</i>)</p> | |
| 11⁴⁰-12⁰⁰ | <p><i>Can animals use digital solutions and artificial intelligence?</i></p> <p>DMV Aleksandra Marzec and MSc Kamila Kaszycka Doctoral School University of Life Sciences in Lublin</p> | |
| 12⁰⁰-13⁰⁰ | <p>Concert Vertigo and Never Give Up</p> | |
| 13⁰⁰-13¹⁵ | <p>Competition results</p> | |
| 13¹⁵-13³⁰ | <p>Coffee break / Poster Session The lobby of the Congress Hall of the University of Life Sciences in Lublin (<i>stationary format</i>)</p> | |
| | PANEL II - Interdisciplinary sessions | |
| | <p>Animal Sciences <i>Congress Hall of the University of Life Sciences in Lublin (hybrid format)</i> Moderators: dr hab. Mariola Bochniarz, associate prof. PhD Edyta Kowalczyk-Vasilev</p> | <p>Food Quality/Technology <i>Conference Room No. 14 of the University of Life Sciences in Lublin (hybrid format)</i> Moderators: dr hab. Monika Sujka, associate prof. PhD Justyna Libera dr hab. Maciej Combrzyński, associate prof. PhD Beata Biernacka</p> |
| 13³⁰-13⁴⁰ | Kamila Kaszycka: Doglish decoded - what dogs are really saying? | Tomasz Kiczek (online): Development of a cutting system for onion topping and tailing |
| 13⁴⁰-13⁵⁰ | Piotr Nawlatyna: Comparison of selected parameters of | Paweł Woźniak (online): Evaluation of process parameters for industrial onion |

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| | mating vocalization of common pheasant (<i>Phasianus colchicus</i>) over various months | dry peeling |
| 13 ⁵⁰ -14 ⁰⁰ | Anastasiya Ramankevich: Feeding behavior of laying hens | Savelii Ishchenko: Herbal plants as a potential functional food additive |
| 14 ⁰⁰ -14 ¹⁰ | Karolina Wengerska: Hens' productivity and eggshell defects as factors determining raw material quality - preliminary research | Joanna Stasiak: Impact of storage on microbiological safety of preservative-free innovative poultry products |
| 14 ¹⁰ -14 ²⁰ | Ignė Juknienė (online): Analysis of the Properties of Physiologically Active Hydrolysates from Animal By-products | Robert Waraczewski: The structure of starch gels – a microscopic evaluation |
| 14 ²⁰ -14 ³⁰ | Rusne Stankeviciute (online): Natural Bioactive Additives for Enhancing Milk Quality in Dairy Cows | Jacek Gładysz: Assessment of the possibility of using agricultural residues as fuel in low-power boilers |
| 14 ³⁰ -14 ⁴⁰ | | Alina Voranova: Application of vacuum impregnation in meat. A review |
| 14 ⁴⁰ -15 ²⁰ | Lunch break/ Poster Session The lobby of the Congress Hall of the University of Life Sciences in Lublin (<i>stationary</i> format) | |
| | PANEL III - Interdisciplinary sessions | |
| | Health and Basic Sciences <i>Congress Hall of the University of Life Sciences in Lublin (hybrid format)</i> Moderators: dr hab. Magdalena Pogorzelec, associate prof. PhD Krzysztof Puk | Plant Sciences <i>Conference Room No. 14 of the University of Life Sciences in Lublin (hybrid format)</i> Moderators: dr hab. Sławomir Ligęza, associate prof. PhD Adam Gawryluk |
| 15 ²⁰ -15 ³⁰ | Magdalena Borecka: Antioxidant properties of hydrolysates obtained by in vitro digestion of protein isolates from seeds of selected cucurbits | Patrycja Cichosz (online): Phenolic components of thyme herb depending on the extraction method |
| 15 ³⁰ -15 ⁴⁰ | Gabriela Gutowska-Kurant: The impact of adaptogenic plants on stress reduction | Weronika Grzelak: Cellular mechanisms of oat resistance to powdery mildew conditioned by the Pm4 gene |
| 15 ⁴⁰ -15 ⁵⁰ | Karol Ludwinek: From allergy to tolerance: immunological mechanisms and therapeutic approaches in cow's milk | Wiktoria Jędrzyś: Optimisation of nucleic acid isolation for next generation sequencing |

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| | allergy treatment | |
| 15 ⁵⁰ -16 ⁰⁰ | Bartosz Niemiec: A fresh perspective on cow's milk protein intolerance | Weronika Kursa: Laboratory evaluation of the antifungal effect of calendula flower extract (<i>Calendula officinalis</i> L.) and its phytotoxic effect on seeds of selected crops |
| 16 ⁰⁰ -16 ¹⁰ | Michalina Pinkosz: Breaking barriers: serum zonulin as a marker of intestinal permeability in patients with chronic lymphocytic leukemia | Renata Leszczyńska: Effect of soil chemical properties on potato vegetation index |
| 16 ¹⁰ -16 ²⁰ | Aleksandra Rolewicz (online): Effect of the addition of seed and peel powder from tomatoes on the physicochemical properties of carrot mousse | Katarzyna Michaś: Natural rainwater catchers |
| 16 ²⁰ -16 ³⁰ | Angelika Śliwka: Psychobiotics and sleep. Can gut microbiota help with insomnia? | Klaudia Rząd: Antifungal Potential of Coumarin Derivatives for Crop Protection Against Fungal Pathogens |
| | | <p>Environment</p> <p><i>Conference Room No. 14 of the University of Life Sciences in Lublin (hybrid format)</i></p> <p>Moderators: dr hab. Alina Kowalczyk-Juśko, associate prof. PhD Szymon Chmielewski</p> |
| 16 ³⁰ -16 ⁴⁰ | Magdalena Tyczyńska: Trace elements in Alzheimer's disease: current state of knowledge | Michał Arciszewski (online): Glacial relics in the age of global warming - threats and prospects for conservation |
| 16 ⁴⁰ -16 ⁵⁰ | Kinga Zdybel: Postbiotics and their role in preventing Inflammatory Bowel Diseases | Anna Borkowska (online): Waste or valuable resource? - energy potential of hazelnut leaves |
| 16 ⁵⁰ -17 ⁰⁰ | Marzena Baran (online): Evaluation of the anticancer effects of cisplatin and EX527 in the treatment of head and neck squamous cell carcinoma (HNSCC) | Martyna Materowska (online): Two types of winter diapause in aphids |
| 17 ⁰⁰ -17 ¹⁰ | Altin Metalla (online): Assessment of mercury levels in marine fish muscle, water and sediment: implications for human health and environmental monitoring | Klaudia Morawska (online): Application of carbon nanocomposite in ammonium ion-selective electrodes – ecology, rapidity and accuracy in one |
| 17 ¹⁰ -17 ²⁰ | Alicja Pawlak (online): Reinterpretation of the 'cap-pair' | Kinga Morlo (online): Adsorption efficiency assessment of platinum-based |

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| | rule in mixed aqueous-organic electrochemical systems containing ethanol and acetonitrile: mechanism and kinetics of the electroreduction process of Bi(III) ions | anticancer drugs metabolites using biochar |
| 17 ²⁰ -17 ³⁰ | Krystian Siwek (online): Application of the QuEChERS technique for determination of methandienone in biological samples by GC-MS/MS | Justyna Wielgos : Return to tradition – the importance of grazing animals in the protection of thermophilic grasslands |
| 17 ³⁰ -17 ⁴⁰ | | Edyta Wlazłowska (online): Detection of trace amounts of tin in environmental water samples by stripping voltammetry |
| 17 ⁴⁰ -18 ⁰⁰ | Closing ceremony, Congress Hall of the University of Life Sciences in Lublin; hybrid format Presentation of the awards and certificates for the best presentation in each session and the best poster, awarded by moderators Awarding diplomas to the outstanding PhD students of the Doctoral School of the University of Life Sciences in Lublin, awarded by: prof. dr hab. Bartosz Sołowiej – Vice-Rector for Science and International Cooperation prof. dr hab. Katarzyna Ognik – Director of the Doctoral School | |
| 20 ⁰⁰ | Gala dinner Hotel Mercury in Lublin | |

Poster Session

Moderators:

prof. Paulius Matusevicius

Doc. dr Jurgita Dailidavičienė

prof. dr hab. Magdalena Krauze

Poster session – Animal Sciences

1. Bryś M. et al. Effect of feeding Phacelia pollen monodiets on antioxidant activities in the hemolymph of worker honey bees
2. Domański F. et al. Evaluation of the chemical and microbiological composition of complementary feed mixtures (CFM) using digestible proteins in pig feeding
3. Fabjanowska J. et al. Selenium - a key micronutrient key for calves immunity
4. Fabjanowska J. et al. Niche plants as a source of polyunsaturated fatty acids for cattle - optimization of seeds, pomace, and oils share in cattle diets

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| 5. | Fiedorowicz J. et al. Phoenixin - a novel modulator of the proliferation of rat brown preadipocytes |
| 6. | Figura A. et al. Species Identification of a Bone Keychain Using DNA Analysis |
| 7. | Głodkowska K. et al. Local uterine immunity in cows and influence of sex hormones on it |
| 8. | Grychnik P. et al. The Impact of Aflatoxin B1 on Pig (<i>Sus scrofa</i>) and Human (<i>Homo sapiens</i>) |
| 9. | Hahaj-Siembida A. et al. Polish lowland sheep as a reservoir of <i>Staphylococcus aureus</i> |
| 10. | Janicka K. et al. Does sociability towards humans influence sheep performance in mirror – image test? |
| 11. | Janicka W. et al. The ability of sheep to solve operant problem task depending on seeking contact with human |
| 12. | Konieczna K. et al. Effect of flavonoid compound - baicalein on lipolysis in mature rat adipocytes |
| 13. | Krażek M. et al. Neuronostatin modulates isoproterenol-induced lipolysis in white adipocytes |
| 14. | Lewandowska S. et al. Dental Correction in Chinchillas (<i>Chinchilla</i>) – Indications and Procedure – Selected Clinical Cases |
| 15. | Lipian-Głós A. et al. The variability of the fatty acid profile content in cows' milk in depending on the breed, feeding system, and season |
| 16. | Marzec A. et al. Does the effect of copper nanoparticles on DNA methylation and the redox status of rats depend on the diverse physiological functions of dietary fiber? |
| 17. | Milewski S. et al. Chemical Composition and Fat Quality of Selected Feed Materials Used in Poultry Nutrition |
| 18. | Moczulska M. et al. The effect of <i>Clitoria ternatea</i> L. supplementation on reproductive performance of Puławska breed sows |
| 19. | Ospałek W. et al. Free-living cervids as an environmental reservoir of STEC <i>Escherichia coli</i> strains |
| 20. | Pachciński K. et al. Effect of brown seaweed <i>Ascophyllum nodosum</i> on digestibility and plasma mineral content in weaned piglets |
| 21. | Pisarek M. et al. Prevalence of <i>Hepatozoon canis</i> infection in dogs from the area of Lublin Voivodship |
| 22. | Smagiel R. et al. The effect of early administration of doxycycline, enrofloxacin or monensin on antibiotic levels in the liver and breast muscles of turkeys |
| 23. | Szymkowiak P. et al. <i>Hermetia illucens</i> full-fat meal affects the tibia of young turkeys |
| 24. | Wacko M. et al. The effect of <i>Ascophyllum nodosum</i> on the mineralization and biomechanical properties of the femur in weaned piglets |
| 25. | Woś K. et al. <i>Ascophyllum nodosum</i> as a potential modulator of tibia bone properties in weaned piglets |

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| 26. | Zeliszewska-Duk P. et al. The effect of rolling on improving blood flow on the surface of the horse's back |
| 27. | Ziółkowska-Twarowska K. et al. Cell-free DNA as a blood biomarker for canine cancer |
| 28. | Mekonnen A G. et al. Disturbed vs non-disturbed wetlands: a case of bird assemblages around Lake Tana in East Africa |
| Poster session – Health and Basic Sciences | |
| 29. | Akantisz K. et al. Eating Disorders Among Female Cosmetology Students – Is There a Risk? |
| 30. | Drzewiecka B. Mushroom extracts - new opportunities for veterinary medicine |
| 31. | Gajowniczek-Ałasa D. et al. In Vitro Digestion of Soups: A Standardized Approach to Simulating Gastrointestinal Processes and Bacterial Viability |
| 32. | Gazda P. The impact of antioxidants on the prevention of metabolic disorders |
| 33. | Kawecka P. et al. The influence of parents' nutritional knowledge on the eating behavior of children aged 3-6 |
| 34. | Kwaśny D. et al. Antioxidant activity of wheat, rice, potato, and maize starch with the addition of different polyphenols |
| 35. | Łysakowska P. et al. Dietary Intervention Supporting Remission in Crohn's Disease |
| 36. | Niedźwiadek K. et al. A new approach to the validation of sterility testing |
| 37. | Osowska P. et al. Development and optimization of a method for determining melamine and cyanuric acid in milk and dairy products using liquid chromatography with mass spectrometry (LC-MS/MS) |
| 38. | Sakhechidze D. et al. Fact vs. Feeling: Discrepancies Between Body Composition and Self-Perceived Body Image Among Female Amateur Athletes Szponder M. et al. Are antioxidants really healthy? |
| 39. | Ślusarczyk L. et al. Exploring the Synergy Between 1,3,4-Thiadiazole Derivative and Amphotericin B: Spectroscopic and Biological Evidence |
| 40. | Sołek P. et al. Interactions between vascular dysfunction, inflammatory states, and lipid metabolism as a possible mechanism in retinitis pigmentosa pathogenesis |
| 41. | Cholewińska E. et al. From genome to AI algorithm: mutations identified in patients diagnosed with retinitis pigmentosa (RP) |
| Poster session – Environment | |
| 42. | Błaszczak W. et al. Efficient removal of potentially toxic elements from digested sewage sludges using protic ionic liquids |
| 43. | Feculak M. et al. Combined sulfidation and protein coating: a new perspective on CuO nanoparticle toxicity towards living organisms |
| 44. | Garbacz A. et al. The influence of selected anthropogenic factors on enzymatic biomarkers of oxidative stress in earthworms (<i>Lumbricidae</i>) and snails <i>Cepaea nemoralis</i> (<i>Helicidae</i>) Polesie |

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| 45. | Garbacz A. et al. Analysis of non-enzymatic biomarkers of oxidative stress in earthworms (<i>Lumbricidae</i>) and snails <i>Cepaea nemoralis</i> (<i>Helicidae</i>) of Polesie as a result of the impact of selected anthropogenic factors |
| 46. | Jóźwiakowska K. et al. Operational efficiency of the municipal wastewater treatment plant in the aspect of its modernization |
| 47. | Kaya M. et al. Change in Cultural Landscape: LULC and Carbon Storage Analysis in Hevsel Gardens (2015-2024) |
| 48. | Krakowiak D. et al. Silent toxicity: heavy metal accumulation in the environment and food and its threats to human health |
| 49. | Krakowiak W. Forest Kindergarten: How does Nature Support Children's Development? |
| 50. | Kuśmierz K. et al. Beavers as ecosystem engineers – importance for water retention |
| 51. | Mrózek P. et al. Determination of Co(II) in the environmental samples by stripping voltammetry |
| 52. | Myszura-Dymek M. et al. Circular economy in mining waste management |
| 53. | Nowak-Marchewka K. et al. Analysis of Circular Economy Indicators in Selected European Economies |
| 54. | Paluch D. et al. Research on the sorption properties of bioadsorbents derived from plant materials |
| 55. | Soja J. et al. Biogas potential of post-production waste from the production of snack pellets with the addition of selected plant pomace |
| 56. | Sokal K. et al. Impact of agricultural practices on greenhouse gas emissions - a review |
| 57. | Walczak W. Advantages of a modular water filtration system solution for swimming ponds |
| 58. | Wilk J. et al. Spatial Determinants of Acoustic Climate and Noise Pollution in Roztocze National Park |
| 59. | Wójcik-Madej J. et al. Green roofs as an example of an urban NBS |
| 60. | Zawadzka B. et al. Sorption of phosphates on Rockfos® materials at extreme temperature conditions |
| 61. | Ziarkowska A. et al. Pristine and Modified CuO Nanoparticles: Assessment the Risk of Accumulation in Edible Plants |
| 62. | Osowska P. et al. Effectiveness of cleaning the Ciemięga River in Jastków using hybrid constructed wetland wastewater treatment plant |
| 63. | Raduj W. et al. Analysis of water consumption in relation to the daily volume of wastewater, including the so-called non-returnable volume, in a household that reuses treated wastewater |
| 64. | Dubel D. et al. Mortality of aphids <i>Macrosiphum rosae</i> after being exposed to the bacteria <i>Bacillus subtilis</i> |

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| 64. | Aleksandrovas E. et al. Sustainable Preservation of Gouda Cheese Using Biodegradable Packaging and Lactobacillus-Incorporated Whey Coating |
| 65. | Bajt P. et al. Physicochemical quality evaluation of slippery elm bark hard capsules |
| 66. | Bartoń M. et al. The effect of organic sea buckthorn or rosehip juices on physicochemical, rheological, and sensory properties of organic goat and cow fermented whey beverages |
| 67. | Jachimowicz-Rogowska K. et al. Organoleptic assessment of traditional and artisan bread |
| 68. | Krajewska A. et al. Drying conditions and in vitro digestion as determinants of phenolic content and antioxidant activity in apple pomace powders and fortified biscuits |
| 69. | Michalska A. et al. Selected species of mushrooms from the <i>Phellinus</i> genus as a source of compounds with antioxidant properties |
| 70. | Sadurski J. et al. Bioinformatics in the Control of Microflora in Fermented Food Products |
| 71. | Skwarek P. et al. The influence of freeze-dried tomato pomace on the profile of volatile aromatic compounds and sensory properties of raw fermented sausages with reduced nitrite content |
| 72. | Szwed M. et al. Impact of Digestate Fertilization on Corn Quality |
| 73. | Tama A. et al. Impact of selected fruit pomace addition on the physicochemical characteristic of filled candies |
| Poster session – Plant Sciences | |
| 74. | Matyszczuk K. The effect of zinc oxide nanoparticles on the growth of white cabbage <i>Brassica oleracea</i> var. <i>Capitata</i> |
| 75. | Bernat E. et al. The impact of environmental conditions on soybean pod setting |
| 76. | Bogusz P. et al. Yield comparison of two maize varieties fertilized with different waste-based fertilizers |
| 77. | Buczyński K. et al. Detection of pear trees using convolutional neural network based on data collected by drones |
| 78. | Figiel S. et al. Innovative methods to increase the efficiency of nitrogen use by plants |
| 79. | Krukow E. et al. Selenium fertilization and its content in pasture sward |
| 80. | Majewska Z. et al. Creation of AtPRN2:citrine and AtPRN2:3xcherry transgenic lines to study secondary wood in <i>A. thaliana</i> |
| 81. | Pietrzniak M. et al. Studies on the content of essential oil in the plant material of common tansy (<i>Tanacetum vulgare</i> L.) |
| 82. | Stasińska-Jakubas M. et al. Metabolic response of <i>Melissa officinalis</i> and <i>Hypericum perforatum</i> to the foliar application of salicylic acid |

ANNOUNCEMENT II

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| 83. | Wnuczek R. et al. Influence of harvesting date on profitability of sugar beet production |
| Poster session – Technology | |
| 84. | Jaskuła P. et al. Machine learning solutions for seed quality prediction |
| 85. | Kamińska M. et al. Machine learning in rice disease detection |
| 86. | Rusek Ł. et al. Technology of Granulated Fertilizer Production Enriched with Microbiological Components |
| 87. | Snarski-Adamski A. et al. Tribological Performance of 3D-Printed Orthodontic Devices Under Simulated Oral Conditions |
| 88. | Stelmachowicz A. et al. Optimization of 3D Printing Parameters for PLA and Their Impact on Mechanical Strength |
| 89. | Vasiukov K. et al. Application potential of vacuum impregnation and microwave radiation treatment in Triticale malt production |
| 90. | Zwoliński A. et al. Artificial Intelligence in Engineering and Technical Sciences |

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