

## DETAILED PROGRAM

<b>8<sup>00</sup>-9<sup>00</sup></b>	<b>Registration of participants</b> <b>Congress Hall of the University of Life Sciences in Lublin, Akademicka 12 street</b>
<b>9<sup>00</sup>-9<sup>20</sup></b>	<b>Opening ceremony</b> prof. dr hab. Krzysztof Kowalczyk – Rector of the University of Life Sciences in Lublin  dr hab. Bartosz Sołowiej, associate prof. – Vice-Rector for Science and International Cooperation of the University of Life Sciences in Lublin  dr hab. Urszula Kosior-Korzecka, Associate Professor - Vice-Rector for Student Affairs and Education of the University of Life Sciences in Lublin
<b>9<sup>20</sup>-9<sup>30</sup></b>	<b>Presentation of the Doctoral School of the University of Life Sciences in Lublin – film projection</b> prof. dr hab. Katarzyna Ognik – Director of the Doctoral School
<b>9<sup>30</sup>-9<sup>50</sup></b>	<b>Inaugural lecture by title: „Transdisciplinarity in Scientific and Engineering Research”</b> prof. Joan Garcia – Universitat Politècnica de Catalunya-BarcelonaTech (Spain)
	<b>COMPETITION SESSION: “THE ARTIFICIAL INTELLIGENCE IN NATURAL AND TECHNICAL SCIENCES”</b>
	<b>Competition committee:</b> <b>dr hab. Barbara Sowińska-Świerkosz, Associate Professor UP Lublin -president committee</b> Dawid Kin, Director of the Artificial Intelligence Development Office in the Data Analytics Department of PKO BP S.A. Marcin Ćwikła, Executive Manager of Digital Sales Process Optimization Team at the Digital Services Department of PKO BP S.A. <b>dr hab. Andrzej Bochniak, Associate Professor UP Lublin</b> <b>PhD Justyna Libera, UP Lublin</b> <b>PhD Małgorzata Wysocka, UP Lublin</b>
<b>9<sup>50</sup>-10<sup>00</sup></b>	AI in multiscale environment management on the example of the FaST platform concept <b>Sebastian Kuśmierz, Piotr Skowron, Monika Skowrońska</b>
<b>10<sup>00</sup>-10<sup>10</sup></b>	An introduction to artificial intelligence in predicting splicing expression <b>Marcin Kondracki</b>
<b>10<sup>10</sup>-10<sup>20</sup></b>	Effects of lameness on noseband sensor registered feeding attributes <b>Ramūnas Antanaitis, Vida Juozaitienė, Gediminas Urbonavičius, Dovile Malašauskienė, Mindaugas Televičiu, Mingaudas Urbutis, Walter Baumgartner</b>
<b>10<sup>20</sup>-10<sup>30</sup></b>	Heat stress relation with dairy cattle productivity, milk composition, and health <b>Dovilė Malašauskienė, Deividas Gedvilas, Mindaugas Televičius Mingaudas Urbutis, Ramūnas Antanaitis</b>
	<b>SESSION 1 – ANIMAL SCIENCES</b> Moderators: PhD Edyta Kowalczyk-Vasilev and MSc Kamila Janicka
<b>10<sup>30</sup>-10<sup>40</sup></b>	Pseudomonas aeruginosa exotoxin A modulates Galleria mellonella cellular immune response <b>Bartłomiej Iwański, Aleksandra Bartkowska, Monika Koziej, Mariola Andrejko</b>
<b>10<sup>40</sup>-10<sup>50</sup></b>	Joint dysplasia in German Shepherds - selected aspects of diagnosis, treatment and physiotherapy. <b>Marta Dybczyńska, Sylwia Kulig</b>
<b>10<sup>50</sup>-11<sup>00</sup></b>	Cladophora glomerata as a potential nutrient source in animal nutrition <b>Monika Nutautaitė, Vilma Vilienė, Asta Racevičiūtė-Stupelienė; Saulius Bliznikas, Jūratė Karosienė, Judita Koreivienė</b>

<b>11<sup>00</sup>-11<sup>10</sup></b>	The effect of a low or high-fat diet and supplementation with various forms of chromium on the biodistribution of this element in the rat's organism <b>Aleksandra Marzec</b> , Zuzanna Całyniuk, Radosław Smagieł, Anna Stępniewska, Krzysztof Tutaj, Bartosz Fotschki, Jerzy Juśkiewicz, Katarzyna Ognik
<b>11<sup>10</sup>-11<sup>20</sup></b>	Effect of the multi-strain probiotic formulation Bokashi and clinoptilolite on gut barrier function, intestinal health, and performance of broiler chickens infected with <i>Eimeria tenella</i> <b>Artur Ciszewski</b> , Łukasz Jarosz, Zbigniew Grądzki, Marcin Kalinowski
<b>11<sup>20</sup>-11<sup>30</sup></b>	Fallow deer reactions to various sound stimuli <b>Jagoda Czajkowska</b> , Paweł Bogdaszewski, Sara Pieńkowska
<b>11<sup>30</sup>-11<sup>40</sup></b>	The effect of zearalenone and deoxynivalenol on dairy cows <b>Rimvydas Falkauskas</b> , Violeta Baliukonienė, Bronius Bakutis, Jurgita Jovaišienė, Gintarė Vaičiulienė, Gediminas Gerulis
<b>11<sup>40</sup>-11<sup>50</sup></b>	Review of the poultry feed production technologies <b>Kostiantyn Vasiukov</b> , Piotr Kiczorowski, Agata Blicharz-Kania
<b>11<sup>50</sup>-12<sup>00</sup></b>	Organoselenium compounds activity against <i>Trichophyton mentagrophytes</i> human origin isolates <b>Dominik Łagowski</b> , Sebastian Gnat, Mariusz Dyląg, Marcelina Osińska, Aleksandra Trościańczyk, Aneta Nowakiewicz
<b>12<sup>00</sup>-12<sup>10</sup></b>	Resistance to aminoglycosides in <i>Escherichia coli</i> strains isolated from animals <b>Marcelina Osińska</b> , Aneta Nowakiewicz, Sebastian Gnat, Dominik Łagowski, Aleksandra Trościańczyk, Agata Hahaj-Siembida
<b>12<sup>10</sup>-12<sup>20</sup></b>	Effect of insect meal on small intestinal indices in piglets <b>Kinga Szczepanik</b> , Małgorzata Świątkiewicz
<b>12<sup>20</sup>-12<sup>30</sup></b>	Biochemical blood parameters depending on meat-type poultry species and rearing intensity <b>Viktoriia Vasylichenko</b> , Karolina Wengerska, Justyna Batkowska
<b>12<sup>30</sup>-12<sup>40</sup></b>	Wobbly Hedgehog Syndrome in African pygmy and European hedgehogs <b>Anna Witczyńska</b> , Zuzanna Bukowska, Anna Wilczyńska, Michał Wójcik, Łukasz Adaszek
<b>12<sup>40</sup>-13<sup>10</sup></b>	<b>Voting for the best competition presentation AI (online)</b> <b>Lunch break/ Poster session* – Animal Sciences</b>
	<b>SESSION 2 – PLANT SCIENCES</b>
	Moderators: <b>dr hab. Magdalena Pogorzelec</b> , Associate Professor, MSc Karolina Różaniecka
<b>13<sup>10</sup>-13<sup>20</sup></b>	Effectiveness of functionalized materials in promoting crop yield and quality <b>Lidia Marcińska-Mazur</b> , Renata Jarosz, Michał Juda, Jakub Mokrzycki, Justyna Szerement, Monika Mierzwa-Hersztek
<b>13<sup>20</sup>-13<sup>30</sup></b>	Genetic diversity of Polish <i>Blumeria graminis</i> f. sp. <i>avenae</i> population <b>Magdalena Cieplak</b> , Sylwia Okoń, Aleksandra Nucia, Tomasz Ociepa
<b>13<sup>30</sup>-13<sup>40</sup></b>	The effect of selected growth regulators and biostimulant on acclimation of <i>Echinacea purpurea</i> 'Raspberry Truffle' <b>Monika Grzelak</b>
<b>13<sup>40</sup>-13<sup>50</sup></b>	Insights into the genomes of <i>Apilactobacillus kunkeei</i> strains isolated from flowers <b>Klaudia Gustaw</b> , Anita Gorczyca, Patrycja Wojdyło
<b>13<sup>50</sup>-14<sup>00</sup></b>	Assessing the impact of progressive changes in the hemiboreal climate on the cultivation of cabbage ( <i>Brassica oleracea</i> L. var. <i>capitata</i> ) in Central and Eastern Europe <b>Sebastian Kuśmierz</b> , Monika Skowrońska
<b>14<sup>00</sup>-14<sup>10</sup></b>	Immunomodulatory activity of glucooligosaccharides obtained from fungal cell wall $\alpha$ -1,3-glucans <b>Nataliia Kosheva</b> , Sylwia Stączek, Agnieszka Zdybicka-Barabas, Małgorzata Cytryńska, Adrian Wiater, Monika Koziej
<b>14<sup>10</sup>-14<sup>20</sup></b>	Characteristics of <i>Colletotrichum coccodes</i> (Wallr.) S. Hughes isolates as a major factor of anthracnose of cultivated plants

	<b>Weronika Kursa</b> , Agnieszka Jamiołkowska
<b>14<sup>20</sup>-14<sup>30</sup></b>	Formation of the protective layer in horse-chestnut <i>Aesculus hippocastanum</i> <b>Anna Brzostowska</b> , Edyta Gola, Elżbieta Myśkow
<b>14<sup>30</sup>-14<sup>40</sup></b>	<b>Coffee break/Poster session* – Plant Sciences</b>
	<b>SESSION 3 – TECHNOLOGY</b>
	Moderators: <b>dr hab. Aneta Brodziak</b> , Associate Professor, MSc Adam Grdeń
<b>14<sup>40</sup>-14<sup>50</sup></b>	Prevalence of mycotoxins and endotoxins in total mixed rations and different types of ensiled forages produced in Lithuania <b>Gintarė Vaičiulienė</b> , Jurgita Jovaišienė, Violeta Baliukonienė
<b>14<sup>50</sup>-15<sup>00</sup></b>	Production of botanical soluble powders - innovations and challenges <b>Aleksandra Hendrysiak</b> , Anna Michalska-Ciechanowska
<b>15<sup>00</sup>-15<sup>10</sup></b>	The bioactive properties of apples dehydrated in fruit concentrates solutions <b>Magdalena Chądzyńska</b> , Katarzyna Ryba, Artur Wiktor, Małgorzata Nowacka
<b>15<sup>10</sup>-15<sup>20</sup></b>	Functional acid whey cheese with apple pomace and indigenous <i>L. lactis</i> <b>Agne Vasiliauskaite</b> , Justina Mileriene, Loreta Serniene, Beatrice Sungailaite, Lina Lauciene, Neringa Kasetiene, Jurgita Aksomaitiene, Gintare Zakariene, Mindaugas Malakauskas, Milda Kersiene, Daiva Leskauskaite, Jonas Viskelis
<b>15<sup>20</sup>-15<sup>30</sup></b>	Pomegranate leaf, as a valuable by-product in food-pharma and nutraceutical industries <b>Manyou Yu</b> , Irene Gouvinhas, Paula Oliveira, Ana Barros
<b>15<sup>30</sup>-15<sup>40</sup></b>	May bananas go extinct? The epidemic of Panama disease <b>Robert Waraczewski</b> , Adam S. Grdeń, Bartosz G. Sołowiej
<b>15<sup>40</sup>-15<sup>50</sup></b>	Natural sorbets as an alternative to sweet snacks for children <b>Kamil Haładyn</b> , Paulina Nowicka, Aneta Wojdyło
<b>15<sup>50</sup>-16<sup>00</sup></b>	Evaluation of the possibility of using a 3D scanner to measure deformation of agricultural tires <b>Weronika Ptak</b> , Agata Małecka, Marek Brennensthul, Jarosław Czarnecki
<b>16<sup>00</sup>-16<sup>10</sup></b>	The effect of nettle addition on physicochemical, microbiological and sensory changes in yoghurts made on the basis of organic cow milk <b>Joanna Wajs</b> , Aneta Brodziak
<b>16<sup>10</sup>-16<sup>20</sup></b>	Determination of nutritional value in meat by-products <b>Igne Jukniene</b> , Agne Jankauskiene, Gintare Zaborskiene
<b>16<sup>20</sup>-16<sup>30</sup></b>	St. John's wort as a source of health-promoting properties against metabolic syndrome development - <i>in vitro</i> approach <b>Kaja Kiersnowska</b> , Anna Jakubczyk, Begümhan Ömeroğlu, Krzysztof Tutaj, Kamila Rybczyńska-Tkaczyk, Urszula Złotek
<b>16<sup>30</sup>-16<sup>40</sup></b>	Nutritional recommendations for person with Hashimoto and insulin resistance <b>Marta Kotuła</b> , Joanna Kapusta-Duch, Barbara Borczak, Martyna Sobczyk
<b>16<sup>40</sup>-16<sup>50</sup></b>	Lyse with Class - classification of endolysins through machine learning <b>Sophia Baldysz</b> , Jakub Barylski
<b>16<sup>50</sup>-17<sup>00</sup></b>	Effect of addition of a herbal mixture to the diet for cows on the antioxidant potential value in milk and yoghurts <b>Magdalena Stobiecka</b> , Jolanta Król
<b>17<sup>00</sup>-17<sup>10</sup></b>	<b>Coffee break/Poster session* - Technology</b>
	<b>SESSION 4 – ENVIRONMENT</b>
	Moderators: <b>dr hab. Sławomir Ligęza</b> , Associate Professor, MSc Katarzyna Matyszczyk
<b>17<sup>10</sup>-17<sup>20</sup></b>	Evaluation of selected works in agriculture in aspect of OHS <b>Agata Małecka</b> , Marek Brennensthul, Jarosław Czarnecki, Weronika Ptak
<b>17<sup>20</sup>-17<sup>30</sup></b>	Reuse of nutrients from wastewater for the production of bioplastics with cyanobacteria <b>Estel Rueda</b> , Joan Garcia
<b>17<sup>30</sup>-17<sup>40</sup></b>	Numbers of microorganisms in soils with different physico-chemical properties <b>Michał Możejko</b> , Justyna Bohacz

17 <sup>40</sup> -17 <sup>50</sup>	Potential role of endophytic <i>Methylobacterium</i> strains in heavy metal phytoremediation <b>Wojciech Sokółowski</b> , Sylwia Wdowiak-Wróbel, Monika Marek-Kozaczuk, Michał Kalita, Bożena Kowalczyk
17 <sup>50</sup> -18 <sup>00</sup>	Polyhydroxyalkanoates and exopolysaccharides production by cyanobacteria microbiomes: Collection, selection and upscaling of natural microbiomes <b>Beatriz Altamira-Algarra</b> , Eva González-Flo and Joan García
18 <sup>00</sup> -18 <sup>10</sup>	Small hydropower plants in the aspect of sustainable hydro energy <b>Michał Dzedzic</b>
18 <sup>10</sup> -18 <sup>30</sup>	<b>Coffee break/Poster session* - Environment</b>

\*Poster will be presented on-line during the coffee breaks. Authors are not obligated to present their posters.

<b>POSTER SESSION - ANIMAL SCIENCES</b>	
1.	Preliminary confirmation of alternative cellular receptor in neurons for mouse coronavirus (MHV-JHM) Michalina Bartak, Anna Słońska, Marcin W. Bańbura, Joanna Cymerys
2.	Phenoloxidase and lysozyme activities in hemolymph of <i>Apis mellifera</i> workers, rebels and queens Maciej S. Bryś
3.	Effectiveness of production of cows fed with rations supplemented with oregano ( <i>Origanum vulgare</i> ) Julia Fabjanowska, Renata Klebaniuk, Edyta Kowalczyk-Vasilev, Agata Bielak, Szymon Milewski, Maciej Bąkowski, Magdalena Olcha
4.	Can fermented whey modulate AFB1- and OTA-induced toxicity in vivo? Massimo Frangiamone, Alexander Yemelin, Alessandra Cimbalo, Luis Antelo, Eckhard Thines, Lara Manyes Font
5.	Isolation and identification of bacteria from the hemolymph of <i>Cornu aspersum</i> snails Aleksandra Garbacz, Jerzy Ziętek
6.	Coagulase - positive <i>Staphylococcus Aureus</i> problem for companion and farm animals Agata Hahaj-Siembida, Aneta Nowakiewicz, Sebastian Gnat, Aleksandra Trościańczyk, Marcelina Osińska, Dominik Łagowski, Przemysław Zięba
7.	The effect of humic substances on salinomycin residues in poultry Simona Hriciková, Ivona Kožárová, Slavomír Marcinčák
8.	The influence of interspecific socialization on sheep behavior - a case study Kamila Janicka, Jacek Sokółowski
9.	The interactions between season, stable conditions and physiological parameters of horses Wiktoria Janicka, Katarzyna Cikacz, Ewelina Tkaczyk, Anna Wiśniewska
10.	Grazing behaviour of Polish Konik horses after introduction to a new environment Wiktoria Janicka, Kamila Janicka
11.	Copper in the diet of rats and neurodegenerative changes in tissues Paweł Jurczak, Monika Cendrowska-Pinkosz, Magdalena Krauze, Jerzy Juśkiewicz, Katarzyna Ognik
12.	Virus evolution on the example of AMDV Marcin Kondracki
13.	Choroidal thickness profile SD-OCT analysis in dogs affected by GPRA Jowita Zwolska, Mateusz Szadkowski, Ireneusz Balicki
14.	Immune response of rats fed a diet containing various sources of dietary fiber and copper nanoparticles Aleksandra Marzec, Radosław Smagieł, Ewelina Cholewińska, Anna Stępniewska, Jerzy Juśkiewicz, Katarzyna Ognik

15.	Effect of garlic ( <i>Allium sativum</i> L.) supplementation of feed mixtures on selected rearing parameters in broiler chickens Szymon Milewski, Renata Klebaniuk, Wioletta Samolińska, Julia Fabjanowska, Bożena Kiczorowska, Agata Bielak, Malwina Zając, Anna Danek-Majewska
16.	Natural biostimulants in support of honeybees' immune system Patrycja Skowronek
17.	Effect of the diet containing a coccidiostat or early administration of an antibiotic on the level of selected hormones in turkeys Radosław Smagieł, Ewelina Cholewińska, Anna Stępniewska, Dariusz Mikulski, Katarzyna Ognik, Jan Jankowski
18.	Effect of the addition of copper in different forms and doses to a diet in which cellulose is the fiber source on the immune response of rats Radosław Smagieł, Aleksandra Marzec, Magdalena Krauze, Iwona Sembratowicz, Bartosz Fotschki, Katarzyna Ognik
19.	Impact of dairy cows oestrus synchronization on in- line biomarkers Mindaugas Televičius, Dovydas Lukošius, Dovilė Malašauskienė, Mingaudas Urbutis, Ramūnas Antanaitis
20.	Cheek pouch prolapse in Djungarian hamsters ( <i>Phodopus sungorus</i> ) - case report Anna Wilczyńska, Anna Witczyńska, Zuzanna Bukowska, Michał Wójcik, Łukasz Adaszek
21.	Biopolymer-based gentamicin-enriched biomaterial as a wound dressing Michał Wójcik, Anna Witczyńska, Anna Wilczyńska, Agata Przekora
<b>POSTER SESSION - PLANT SCIENCES</b>	
22.	Effect of glucose supplementation on the biochemical composition of EPS Wioleta Babiak, Magdalena Czemińska, Marlena Szymańska, Anna Wilkołazka-Jarosz, Izabela Krzemińska
23.	Impact of elicitation on antioxidant value of winter wheat grain Wojciech Biszcak
24.	Alpha glucosidase inhibitory peptides derived from barley ( <i>Hordeum vulgare</i> L.) proteins Justyna Bucholska, Anna Iwaniak, Małgorzata Darewicz, Marta Turło
25.	Chitosan as an effective elicitor of health-promoting plant secondary metabolites Maria Stasińska-Jakubas, Barbara Hawrylak-Nowak
26.	Effect of biostimulants on growth and metal accumulation in <i>Miscanthus x giganteus</i> Karolina Jaros, Piotr Sugier, Jolanta Jaroszuk-Ściśeł, Jaco Vangronsveld, Małgorzata Wójcik
27.	Comparative analysis of three selected transcripts of sugar beet ( <i>Beta vulgaris</i> L. subsp. <i>vulgaris</i> ) after 7 days of drought and maintained under optimal irrigation Karolina Różaniecka, Michał Nowak, Krzysztof Kowalczyk
28.	Evaluation of spatial variability of potato canopy, yield and quality of potato tubers and possibilities of prediction the yield of Innovator cultivar with the use of precision farming Stanisław Samborski, Renata Leszczyńska, Dariusz Gozdowski
<b>POSTER SESSION - TECHNOLOGY</b>	
29.	Electrical conductivity of sheep's milk and its mixtures Jakub Biegalski, Dorota Cais-Sokolińska
30.	Preparation and characterization of kaolin-carbon-lavender composites Alicja Bosacka, Victoriia Paientko, Olena Oranska, Aleksander Matkovsky, Volodymyr Gun'ko, Małgorzata Zienkiewicz-Strzalka, Anna Derylo-Marczewska, Agnieszka Chrzanowska
31.	The antioxidant properties of fermented lentil-based beverages Patrycja Cichońska, Małgorzata Ziarno
32.	Biogenic amines in foods excluded from low histamine diets Dorota Gajowniczek-Ałas, Dominik Sz wajgier, Ewa Baranowska-Wójcik
33.	Optimization of protein extraction conditions from canola meal Katarzyna Garbacz, Jacek Wawrzykowski, Michał Czelej, Adam Waśko

34.	Analysis of liquisolid systems' tableting performance by machine-learning algorithms Teodora Glisic, Jelena Djuris, Ivana Vasiljevic, Ivana Aleksic
35.	Use of plant-based lipase inhibitors in the prevention of obesity Paula Grdeń, Adam S. Grdeń, Anna Jakubczyk
36.	Edible insects as pro-health and pro-environmental functional food Adam S. Grdeń, Robert Waraczewski, Paula Grdeń, Bartosz G. Sołowiej
37.	Supercritical CO <sub>2</sub> extraction from milk thistle: The effect of pressure and temperature Piotr Kamiński, Stoja Milovanovic, Agnieszka Dębczak, Katarzyna Tyśkiewicz, Marcin Konkol
38.	Changes within gluten network after supplementation with selected phenolic acids Konrad Kłosok, Renata Welc, Monika Szymańska-Chargot Zbigniew Niewiadomski, Agnieszka Nawrocka
39.	Nutritional treatment of an oncology patient during chemotherapy – case study Marta Kotuła, Joanna Kapusta-Duch, Barbara Borczak, Jolanta Bujo
40.	Modified screen-printed sensor for determination of anticancer drug candidate Jędrzej Kozak, Katarzyna Tyszczyk-Rotko, Damian Gorylewski
41.	Influence of flavonoids on the structure of the gluten network Magdalena Krekora, Agnieszka Nawrocka
42.	Impact of nutrition on learning ability of children and adolescents Dominika Kwaśny, Barbara Borczak, Joanna Kapusta-Duch, Patrycja Brączek
43.	Impact of adding white clover flower on muffins' functional properties Dominika Kwaśny, Barbara Borczak, Joanna Kapusta-Duch, Sylwia Węgrzyn
44.	Selected aspects of extrusion-cooking of enzyme-enriched wheat flour Piotr Lewko, Agnieszka Wójtowicz, Magdalena Szydłowska-Tutaj
45.	The role of diet, lifestyle and selected anthropometric parameters of women of reproductive Paulina Łysakowska, Justyna Libera, Aldona Sobota
46.	Study on the effect of chitosan adsorption layer thickness on silica surface Marlena Martyna, Juraj Nikolić, Davor Kovačević, Agnieszka Nosal-Wiercińska
47.	Damage to bacterial cell membranes by different concentrations of ZnONPs Katarzyna Magdalena Matyszczuk, Anna Krzepińko
48.	Peptide markers of seafood tropomyosins, stable during food processing Marta Turło, Piotr Minkiewicz
49.	Usefulness of selected apple varieties for the production of NFC juices Emilia Osmólska, Agnieszka Starek-Wójcicka, Katarzyna Prokopiuk
50.	Thermodynamic properties of pure furfural and furfuryl alcohol and binary mixture at different pressures and temperatures Zoran Simic, Gorica Ivanis, Ivona Radovic, Mirjana Kijevcanin
51.	Acrylic hydrogels physically cross-linked by montmorillonite Olena Siryk, Katarzyna Szewczuk-Karpisz, Yuriy Samchenko, Olena Goncharuk, Agnieszka Tomczyk, Tetiana Poltoratska
52.	Tomato by-products as innovative additives for meat products Patrycja Skwarek, Małgorzata Karwowska
53.	Management of flaxseed pomace by extrusion-cooking process Jakub Soja, Maciej Combrzyński, Tomasz Oniszczuk, Agnieszka Wójtowicz
54.	Fermented food as source of yeasts with probiotic potential Adam Staniszewski, Monika Kordowska-Wiater
55.	Vegan meringue made of aquafaba and enriched with inulin Joanna Stasiak, Justyna Libera, Dariusz Stasiak
56.	Effect of the addition of dried Lion's Mane, Maitake, Reishi and Enoki mushrooms on the culinary and sensory evaluation of pasta Magdalena Szydłowska-Tutaj, Urszula Złotek, Piotr Lewko
57.	Beetroot pomace as a source of bioactive compounds Julian Szymański, Dominik Sz wajgier, Ewa Baranowska-Wójcik

58.	Peptide markers of seafood tropomyosins, stable during food processing Marta Turło, Piotr Minkiewicz
59.	Assessment of biological activity of <i>Epilobium angustifolium</i> L. (Fireweed) Klaudia Kowalik, Magdalena Polak-Berecka, Monika Predecka-Wróbel, Dominika Pigoń-Zajac, Iwona Niedźwiedz, Dominik Sz wajgier, Ewa Baranowska-Wójcik, Adam Waśko
<b>POSTER SESSION – ENVIRONMENTAL</b>	
60.	Activated carbons obtained from herbs as polymers adsorbents Marlena Gęca, Małgorzata Wiśniewska, Piotr Nowicki
61.	Spatial-temporal changes of atmospheric methane content from rice cultivation regions Katarzyna Kozicka, Dariusz Gozdowski, Elżbieta Wójcik-Gront
62.	Biochar amendment improves methane uptake and methanotroph abundance in soil Adam Kubaczyński, Anna Walkiewicz, Anna Pytlak, Jarosław Grządziel, Anna Gałązka, Małgorzata Brzezińska
63.	Wastewater treatment systems with a difficult physicochemical composition in Motor Rest Areas (MRAs) Kinga Marek, Katarzyna Pawęska, Aleksandra Bawiec
64.	Goethite coating with polyanions and polycations – zeta potential study Magdalena Medykowska, Katarzyna Szewczuk-Karpisz, Katarina Jerin, Davor Kovačević, Małgorzata Wiśniewska
65.	The concept of construction a hybrid constructed wetland wastewater treatment plant with a closed water circuit Anna Myka-Raduj, Krzysztof Józwiakowski
66.	The nitrate SCISEs based on cobalt(II) complex with 4,7-diphenyl-1,10-phenanthroline Karolina Pietrzak, Cecylia Wardak
67.	Effect of activity of Castor fiber L. on changes in river hydromorphology Katarzyna Połec, Antoni Grzywna, Monika Tarkowska-Kukuryk
68.	Simple and sensitive procedure for the determination of cerium ions in environmental waters. Edyta Wlazłowska, Małgorzata Grabarczyk
69.	Typological and spatial structure of strong nature-based solutions (NBS) candidates: Lublin case study Julia Wójcik-Madej, Barbara Sowińska-Świerkosz
70.	Microbiological diversity of dairy wastewater depending on selected physicochemical parameters Beata Zawadzka, Tadeusz Siwiec, Michał Marzec
71.	Concept of the rainwater management system in the Roztocze National Park Tadeusz Grabowski, Krzysztof Józwiakowski