



## **2<sup>nd</sup> SCIENTIFIC CONFERENCE**

**FOR CRITICAL ENVIRONMENTAL ISSUES OF  
THE WESTERN BALKAN COUNTRIES**

# **BOOK OF ABSTRACTS**

October 28<sup>th</sup> to 30<sup>th</sup>, 2021, Faculty of Agriculture, Goce Delčev University, Štip,  
Republic of North Macedonia



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## ORGANIZERS:

Goce Delčev University, Faculty of Agriculture, Štip,  
Republic of North Macedonia

WBAA-Western Balkan Alumni Association

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	<b>INDOOR AIR QUALITY IN HOMES USING BIOMASS FOR HEATING AND COOKING</b>	
<b>OP 2</b>	<b>KRISTINA PANEV, NATASA MAVROMIHAILOVA, VESNA ZAJKOVA PANEVA</b> UNILAB, Faculty of Agriculture, Goce Delceev University, Stip, North Macedonia <b>DETERMINATION OF CHLOROPHYLL IN A WATER SAMPLE</b>	<b>10</b>
<b>POSTERS</b>		
<b>P1</b>	<b>Katerina Bačeva Andonovska, Robert Šajn, Claudiu Tănăselia, Trajče Stafilov</b> <b>LITHOLOGICAL DISTRIBUTION OF RARE EARTH ELEMENTS IN SOILS FROM THE LOCALITY OF THE ABOUNDED Sb–As–TI MINE ALLCHAR, N. MACEDONIA</b>	<b>11</b>
<b>P2</b>	<b>Adelina Haskaj-Kelmendi, Musaj Paçarizi</b> <b>POLAROGRAPHIC STUDY OF HEAVY METALS (Cu, Ni and Cr) COMPLEXES WITH ORGANIC LIGANDS</b>	<b>12</b>
<b>P3</b>	<b>Violeta Stefanova, Vojo Mircovski</b> <b>VENTIVE MEASURES FOR WATER PROTECTION OF POLLUTION FROM THE CATCHMENT OF THE RIVER LOSANA – DELCEVO</b>	<b>13</b>
<b>P4</b>	<b>Isak Nensi, Xhaxhiu K., Andoni A., Hamiti Xh., Hajrulai Z., Uzunov R</b> <b>A STUDY OF ENDRIN AND PERMETHRIN PESTICIDES REMOVAL FROM AQUEOUS SOLUTIONS BYFOUR ALBANIAN NATURAL CLAYS</b>	<b>14</b>
<b>P5</b>	<b>Jordana Ninkov, Stanko Milić, Jovica Vasin, Milorad Živanov, Dušana Banjac, Snežana Jakšić, Branka Mijić</b> <b>POTENTIALLY TOXIC ELEMENTS IN AGRICULTURAL SOIL OF CENTRAL SERBIA</b>	<b>15</b>
<b>P6</b>	<b>Violeta Ivanova-Petropulos, Isidro Hermosin-Gutiérrez, Borimir Vojnoski</b> <b>CHARACTERIZATION OF MERLOT WINES BASED ON PHENOLIC COMPOSITION DETERMINED BY HPLC-DAD-ESI-MS AND MS/MS TECHNIQUE</b>	<b>16</b>
<b>P7</b>	<b>Elida Dreshaj-Lecaj, Raife Mulliqi-Neziri, Musaj Paçarizi</b> <b>ADSORPTION OF HEAVY METALS (Cu, Cd, Pb AND Zn) FROM AQUEOUS SOLUTIONS USING ORANGE PEELS</b>	<b>17</b>
<b>P8</b>	<b>Nikolinka Doneva, Marija Hadzi-Nikolova, Dejan Mirakovski, Afrodita Zendelska</b> <b>REGIONAL WASTE MANAGEMENT IN REPUBLIC OF NORTH MACEDONIA: CASE STUDY FOR EAST AND NORTH-EAST PLANNING REGION</b>	<b>18</b>
<b>P9</b>	<b>Granit Kastrati, Flamur Sopaj, Krste Tašev, Trajče Stafilov, Robert Šajn, Musaj Paçarizi</b> <b>A STUDY ON THE ELEMENTS CONTENT IN HONEY SAMPLES IN THE TERRITORY OF KOSOVO</b>	<b>19</b>
<b>P10</b>	<b>Aleksandar Piperevski, Violeta Ivanova-Petropulos, Atanas Runchev, Filip Kamchev</b> <b>INFLUENCE OF DIFFERENT VINIFICATION TECHIQUES ON THE PHENOLIC CONTENT OF VRANEC WINES</b>	<b>20</b>
<b>P11</b>	<b>Violeta Hajdari, Burbuqe Demiraj, Flamur Sopaj, Elez Krasniqi,</b>	<b>21</b>

	<b>Muhamet Zogaj, Granit Kastrati, Musaj Paçarizi</b> <b>BIOACCUMULATION OF SOME METALS IN THE ENDEMIC PLANT</b> <b><i>STACHYS SCARDICA</i> IN THE REGION OF PRISHTINA, KOSOVO</b>	
<b>P12</b>	<b>Biljana Jordanoska Shishkoska, Valentina Pelivanoska, Marija Srbinoska</b> <b>DISTRIBUTION CHARACTERISTICS OF TRACE ELEMENT</b> <b>CONTENT IN PELAGONIA TOBACCO GROWING REGION</b>	22
<b>P13</b>	<b>Ivona Sofronievska, Marinela Cvetanoska, Vlera Zendeli, Marina Stefova,</b> <b>Jasmina Petreska Stanoeva</b> <b>ASSAY OF ORGANOCHLORINE PESTICIDES AND</b> <b>POLYCHLORINATED BIPHENYLS IN AIR AND SOIL</b> <b>SAMPLES FROM THE AREA AROUND A HCH DUMP SITE</b>	23
<b>P14</b>	<b>Maria Hoxhaj, Ilirjana Boci, Suada Rustani</b> <b>CALCINED CLAY CEMENT MANUFACTURING (LC<sup>3</sup>)</b>	24
<b>P15</b>	<b>Sanja Kostadinović Veličkovska, Zoran Arsevski, Fidanka Ilieva, Daniela</b> <b>Dimovska, Aco Kuzelov</b> <b>TOTAL BACTERIAL COUNT IN RAW MILK FROM THE FARMS</b> <b>FROM REGION “OVČE POLE”, REPUBLIC OF NORTH</b> <b>MACEDONIA</b>	25
<b>P16</b>	<b>Burbuqe Demiraj, Violeta Hajdari, Flamur Sopaj, Elez Krasniqi,</b> <b>Muhamet Zogaj, Granit Kastrati, Musaj Paçarizi</b> <b>BIOACCUMULATION OF SOME METALS IN THE PLANT <i>SEDUM</i></b> <b><i>OCHROLEUCUM</i> IN THE REGION OF PRISHTINA, KOSOVO</b>	26
<b>P17</b>	<b>Jovica Vasin, Snežana Jakšić, Milorad Živanov, Jordana Ninkov, Stanko</b> <b>Milić, Dušana Banjac, Vladimir Ćirić</b> <b>HUMUS CONTENT IN DIFFERENT SOIL TYPES IN</b> <b>VOJVODINA PROVINCE, SERBIA - ANTHROPOGENIC</b> <b>INFLUENCE</b>	27
<b>P18</b>	<b>Gligor Bojkov, Emilija Arsov, Saša Mitrev</b> <b>DEVELOPMENT OF <i>BOTRYTIS CINEREA</i> UNDER REDUCTION OF</b> <b>PESTICIDES TREATMENTS IN MACEDONIAN VITICULTURE</b> <b>PRODUCTION</b>	28
<b>P19</b>	<b>Sanja Kostadinović Veličkovska, Zoran Arsevski, Fidanka Ilieva, Daniela</b> <b>Dimovska, Aco Kuzelov</b> <b>SOMATIC CELL COUNT AND PRESENCE OF AFLATOXIN M1 IN</b> <b>RAW MILK FROM THE FARMS FROM REGION “OVČE POLE”,</b> <b>REPUBLIC OF NORTH MACEDONIA</b>	29
<b>P20</b>	<b>Cvetanka Kulukovska, Sasa Mitrev, Emilija Arsov</b> <b>USE OF REAL TIME METHODS FOR DIFFERENT INVESTIGATION</b> <b>AT ENVIRONMENTAL PROTECTION</b>	30
<b>P21</b>	<b>Natalija Markova Ruzdik, Ljupco Mihajlov, Verica Ilieva, Biljana</b> <b>Kovacevik, Mite Ilievski, Nenad Petkovski</b> <b>STUDY OF RELATIONSHIP BETWEEN YIELD AND YIELD</b> <b>RELATED COMPONENTS IN SPRING BARLEY VARIETIES</b> <b>USING MULTIVARIATE ANALYSIS</b>	31
<b>P22</b>	<b>Biljana Balabanova, Dragana Mileva</b> <b>ANALITICAL CHALLENGES FOR DETERMINATION OF</b> <b>ELEMENTAL IMPURITIES IN PHARMACEUTICAL PRODUCTS</b>	32
<b>P23</b>	<b>Antonio Petrov, Fidanka Ilieva, and Sanja Kostadinović Veličkovska</b>	33



	<b>CANNABIS-WINE, A NEW WORLD TREND OR STORY WITH A QUICK END</b>	
<b>P24</b>	<b>Fidanka Trajkova, Elizabeta Karakaseva, Sasa Mitrev AGROCHEMICAL SOIL PROPERTIES AFTER CULTIVATION AND HARVEST OF WHEAT</b>	34
<b>P25</b>	<b>Tina Petrova, Sasa Mitrev, Emilija Arsov IMPORTANCE OF HAZELNUT (<i>CORYLUS AVELLANA</i>) AND MOST COMMON DISEASES IN CULTIVATION IN THE REPUBLIC OF NORTH MACEDONIA</b>	35
<b>P26</b>	<b>Maja Chochevska, Elizabeta Jančovska Seniceva, Sanja Kostadinović Veličkovska, Galaba Naumova-Leŕia, Valentin Mirčeski DETERMINATION OF QUALITY AND ANTIOXIDANT ACTIVITY OF TRADITIONAL HOMEMADE FRUIT VINEGARS PRODUCED WITH DOUBLE SPONTANEOUS FERMENTATION</b>	36
<b>P27</b>	<b>Fidanka Ilieva, Sanja Kostadinović Veličkovska, Violeta Dimovska THE IMPACT OF AUTOCHTHONOUS AND COMMERCIAL YEAST STRAINS ON FERMENTATION AND QUALITY OF WINES PRODUCED FROM VRANEC GRAPE VARIETY FROM TIKVEŠ WINE-GROWING REGION, REPUBLIC OF NORTH MACEDONIA</b>	37
<b>P28</b>	<b>Sanja Kostadinović Veličkovska, Natalija Markova Ruzdić, Ljupčo Mihajlov, Emilija Arsov, Saša Mitrev, Ivan Donev PHYSICO-CHEMICAL CHARACTERIZATION, FATTY ACID COMPOSITION AND THERMAL STABILITY OF COLD-PRESSED SUNFLOWER OILS OBTAINED FROM 17 NEWLY CULTIVATED HYBRIDS FROM THE REGION OF NORTH MACEDONIA</b>	38
<b>P29</b>	<b>Daniela Dimovska, Sanja Kostadinovik, Natalija Markova Ruzdik, Biljana Kovacevik DIFFERENCES IN SOME QUALITY TRAITS BETWEEN RED AND YELLOW CHERRY TOMATO VARIETIES GROWN IN REPUBLIC OF NORTH MACEDONIA</b>	39
<b>P30</b>	<b>Daniela Dimovska, Sanja Kostadinovik, Natalija Markova Ruzdik, Biljana Kovacevik THE EFFECT OF GENOTYPE ON SOME QUALITY TRAITS IN RED CHERRY TOMATO</b>	40
<b>P31</b>	<b>Biljana Balabanova, Ivan Boev, Maja Lazarova FAST TRACE METALS DEPOSITION IDENTIFICATION IN CROSS-IDENTIFICATION ANALISIS USSING ELECTRONIC MICROSCOPY</b>	41
<b>P32</b>	<b>Biljana Kovacevik, Sasa Mitrev, Ivan Boev, Natalija Markova Ruzdik, Blazo Boev ONE FACTORIAL ANOVA IN ASSESSMENT OF GROUNDWATER QUALITY IN VULNERABLE AREA OF AGRICULTURE POLLUTION</b>	42
<b>P33</b>	<b>Andrej Stankovski, Mihael Ivanov, Biljana Balabanova MEDICAL CANNABIS: HISTORY AND CURRENT USE, CHALLENGES AND RISKS</b>	43

## P15

### TOTAL BACTERIAL COUNT IN RAW MILK FROM THE FARMS FROM REGION “OVČE POLE”, REPUBLIC OF NORTH MACEDONIA

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#### **Abstract**

Dairy product quality assurance begins at the farm and ends in the hands of the consumer. In this regard, raw milk quality is essential and is closely monitored. Raw milk must also meet other quality standards; it should be free of drug residues, free of added water and free of sediment, contaminants and other abnormalities. The overall condition and cleanliness of the dairy farm, as determined by routine inspections, are also considered. Although regulatory requirements have been instrumental in ensuring the quality of raw milk, most segments of the dairy industry feel that more stringent standards. This research study presents an insight into the number of bacteria as indicators of the quality of raw milk from the Ovče Pole region. For the needs of this research, an analysis was made of 1320 samples for the presence of bacteria in raw milk. According to European milk quality standards, in the biggest part of the samples, presence of bacteria does not meet the standard. From the analyzes made by the milk producers that were the subject of analysis in this research, it can be concluded that they do not adhere to good agricultural practice, the level of milk contamination is high due to poor hygiene, improper handling of milk after milking and insufficient education of farmers for hygiene in primary production.

**Keywords:** total bacterial counts, raw milk, farms in the Ovče Pole region