OBSAH

HIGH-RESOLUTION IMAGE ANALYSIS OF BARLEY ROOT AND SHOOT TRAITS FOR A SELECTION OF DROUGHT-TOLERANT GENOTYPES
Jana Asszonyi, Nicole Frantová 8

USE OF GPS DEVICES IN HORSE BREEDING
Bajková Daniela, Hana Dočkalová 9

THE INFLUENCE OF EXTINCT SETTLEMENT ON THE DIVERSITY OF VEGETATION IN THE POSTAGRARIAN LANDSCAPE OF MORAVIA
Marcel Bartoš, Sabina Smetanová 10

MOLECULAR IMPRINTING PARTICLES AS SOLUTION FOR ESTRADIOL WATER CONTAMINATION
Eliška Birgusová, Milada Vodová, Jana Pekárková, Zuzana Bytešníková, Jan Přibyl, Lukas Richtera 11

CULTIVATION OF DENDRITIC CELLS USING 3D CELL CULTURE SYSTEM
Michaela Burvalova, Lucie Jelinkova, Jana Rehakova, Ales Pavlik, Petr Slama, Petr Vevera 12

MOLECULAR MECHANISMS UNDERLYING IMPACT OF HEAVY WATER ON 2 MODEL PLANT ARABIDOPSIS THALIANA
Pengxi Wang, Jan Novák, Romana Kopecká, Petr Čičmanec, Martin Černý 13

EFFECTS OF A LONG-TERM PRESSURE OF ZINC OXIDE AND ITS NANOPARTICLES ON ENTEROCOCCUS FAECALIS
Denisa Fenclova, Vendula Jemelikova, Ludek Zurek, Kristyna Cihalova 14

ELECTROMECHANICAL FEM SIMULATION OF STRAIN GAUGE
Matej Hanzalík 15

UTILIZATION OF LIQUID FERTILIZER PRODUCED BY AEROBIC DIGESTION OF SOLID WASTE FROM FISH FARMING IN INDOOR CULTIVATION OF BASIL (OCIMUM BASILICUM L.)
Lukáš Harabiš, Jan Mareš 16

OPTIMISATION OF TRACTOR AGGREGATION IN TERMS OF EFFICIENCY OF TRACTIVE POWER TRANSFER TO THE PAD
Jan Henzl, Radovan Henzl, Václav Štursa, Adam Polcar, František Bauer. 17

ORGANIC AND INORGANIC COATING AND HEAT TREATMENT OPTIONS FOR 3D PRINTED MATERIALS
Radovan Henzl, Petr Dostál, Jan Henzl, Jaroslav Lozrt, Jiří Votava, Jiří Čupera 18

THE INFLUENCE OF BEAR GARLIC ON THE SENSORY QUALITY OF COOKED MEAT PRODUCT
Kateřina Kadlecová. 19

UTILIZING UAVS AND SATELLITE IMAGERY FOR MAPPING OF CROP DAMAGE BY COMMON VOLE (MICROTUS ARVALIS)
Tomáš Kaplánek, Vojtěch Slezák, Kateřina Kuchaříková, Vojtěch Lukas, Petr Škarpa 20

MUSHROOM FARMING IN UGANDA: SOCIO-ECONOMIC CONTRIBUTION OF MUSHROOM TRAINING AND RESOURCE CENTRE
Kiiza Allen, Martin Pavlik, Peace Byandusya 21

METHODS OF ENCAPSULATION FOR TARGETED RELEASE OF ACTIVE COMPOUNDS
Michal Kolář, Soňa Hermanová 22

UTILIZING SKIN RESISTANCE AS AN INDICATOR OF MICROCLIMATE CHANGES IN TECHNICAL SYSTEMS: A CORRELATIONAL ANALYSIS
Rastislav Kollárik, Ivan Vitázek. 23

FUNGAL ACCUMULATION OF LEAD NEAR FIRING RANGES
Radoslav Krchnavý, Martin Pavlík 24

EVALUATION FOR SPOT SPRAYING OF HERBICIDES IN PRECISION AGRICULTURE
Kateřina Kuchaříková, Vojtěch Lukas, Jan Křen, Tomáš Kaplánek, Vojtěch Slezák. 25

THE APPLICATION OF GAS CHROMATOGRAPHY FOR THE EVALUATION OF TECHNOLOGICAL AND HEALTH INDICATORS OF BOVINE MILK FAT AFTER DIETARY CHANGES
Petr Malý, Ludmila Křížová, Kateřina Dadáková, Veronika Farková, Tomáš Kašparovský 26

EFFECT OF CYANIDIN-3-O-GLUCOSIDE ON HUMAN OVARIAN CELL LINES HGL5 AND COV434 IN VITRO
Katarína Majerík Behinská, Olha Balytska, Ema Balková, Michal Mihaľ, Adriana Kolesárová . . .27

TRAM TRACK BIODIVERSITY AND ITS ANNUAL DYNAMICS
Eva Navrátilová 28

IN OVO AMINO ACIDS: INSIGHTS FROM DOMESTICATED AND LABORATORY MODEL SPECIES
Sawadi Fransisco Ndunguru, Gebrehaweria Kidane Reda, Brigitta Csernus, Ádám Z. Lendvai, Levente Czeglédi 29

THE EFFECT OF THE DAILY LIGHT INTEGRAL AND SPECTRUM ON MESEMBRYANTHEMUM CRYSTALLINUM L. IN AN INDOOR PLANT PRODUCTION ENVIRONMENT
Jun Wei Chen, Kateřina Patloková, Robert Pokluda. 30

INFLUENCE OF DEGRADATION PROCESSES ON CHANGES IN SOIL PROPERTIES AND YIELD POTENTIAL
Jan Prachowski, Vojtěch Štulc 31

SYNERGIC EFFECTS OF MICROBIAL CONSORTIA ON CROPS
Vlastislav Řezáč, Veronika Berková 32

TEST OF ECOLOGICAL HYDRAULIC FLUID
Daniel Skladaný, Zdenko Tkáč 33

OPTIMIZING HERBICIDE APPLICATION USING UAV-BASED WEED DETECTION: A COMPARISON OF CLASSIFICATION TECHNIQUES
Vojtěch Slezák, Kateřina Kuchaříková, Tomáš Kaplánek, Vojtěch Lukas, Jan Křen. 34

THE OCCURRENCE OF PICIFORMES SPECIES IN MID-ALTITUDE FORESTS OF THE CZECH REPUBLIC
Jiří Stehno, Jan Šipoš, Josef Suchomel, Denisa Dvořáková 35

SOLVING THE DNA INTEGRITY PUZZLE: OPTIMIZING PRESERVATION FOR COLEOPTERA AND LEPIDOPTERA IN GENETIC AND ECOLOGICAL STUDIES
Dominik Stočes. 36

APPLICATION OF REMOTE SENSING METHODS IN PRECISION AGRICULTURE
Beáta Šusliková, Vojtěch Lukas, Renata Placatová, Jakub Elbl, Jan Křen 37

EFFECT OF POTENTIALLY TOXIC ELEMENTS IN SOIL ON BIOLOGIC PROPERTIES AND THEIR PHYTOSTABILIZATION BY RED FESCUE (FESTUCA RUBRA) IN COMBINATION WITH BIOAUGMENTATION AND BIOCHAR AMENDMENT
Radmila Valová, Jiří Holátko, Jiří Kučerík, Tomáš Vyhnánek, Ondřej Malíček, Martin Brtnický. . . .38

EFFECT OF BIOLOGICALLY ACTIVE COMPOUNDS IN DRONE BROOD ON BONE TISSUE CELLS METABOLISM
Petr Vevera, Michala Steinerova, Michaela Burvalova, Katarina Tokarcikova, Petr Slama, Ales Pavlik. 39

BACTERIAL DIVERSITY AND RESISTANCE PROFILES OF GRAM-POSITIVE BACTERIA ISOLATED FROM INFECTED WOUNDS
Nora Witkovska, Daniel Kuropata, Silvia Kociova, Kristyna Smerkova 40