

Table of Contents

SECTION PLANT PRODUCTION

SUNFLOWER YIELD FORMATION INFLUENCED BY YEAR WEATHER CONDITIONS, GENETIC MATERIAL AND FOLIAR NUTRITION	
Černý <i>et al.</i>	20
WEED INFESTATION OF WINTER WHEAT AT DIFFERENT SOIL TILLAGE	
Dočkalík <i>et al.</i>	27
WEED SPECIES DIVERSITY AND CROP ROTATION	
Dvořáčková <i>et al.</i>	32
DETERMINATION OF SPECTRAL CHARACTERISTICS OF WINTER WHEAT CANOPY	
Edrees <i>et al.</i>	37
CHANGES IN THE CONTENT OF DRY MATTER AND ENERGY DURING THE DEVELOPMENT OF MAIZE	
Herout	43
INFLUENCE OF SOIL TILLAGE ON WEEDS IN MAIZE	
Chovancová <i>et al.</i>	48
CHANGES OF WEED SPECTRUM DURING THE SEASON IN VINEYARD	
Jakabová, Winkler	53
EFFECT OF HARVEST FREQUENCY AND FERTILIZATION ON YIELDS AND QUALITY OF FORAGE	
Jakubcová <i>et al.</i>	58
SUGAR BEET YIELD PRODUCTION, DIGESTION AND POLARIZED SUGAR YIELD IN RELATION TO THE VARIETY AND LEAF BIOPREPARATIONS	
Kašíčková, Pačuta	63
DISTRIBUTION OF BARLEY ROOT BIOMASS IN SOIL PROFILE	
Klimešová, Středa	69
THE IMPACT OF VERMICOMPOST APPLICATION ON YIELD PARAMETERS OF MAIZE	
Kmet'ová, Kováčik	75
EXPERIMENT WITH THE CULTIVATION OF DIFFERENT VARIETIES OF LUPIN IN THE AREA OF DOBŘÍŠ	
Koukolíček, Štranc	82
COMPARISON OF THE ECONOMIC EFFICIENCY, GROWING HYBRID AND OP WINTER OILSEED RAPE VARIETIES	
Krček, Baranyk	89
THE COURSE OF SOIL TEMPERATURE UNDER WHEAT STAND	
Krčmářová <i>et al.</i>	94
EVALUATED GRASS SOD AND PROPERTIES OF THE ROOT SYSTEM	
Kvasnovský, Hejduk	99
THE INFLUENCE OF FERTILIZATION ON THE SPECIES COMPOSITION OF SEMI-NATURAL GRASSLANDS	
Maršálková, Skládanka	104
THE CHANGES IN STAND COMPOSITION IN RENEWED GRASSLAND AFTER 20 YEARS	
Nawrath <i>et al.</i>	109

EVALUATION OF BARE SOIL VARIABILITY FROM REMOTE SENSING DATA

Novák <i>et al.</i>	114
NORMALIZED RED-EDGE INDEX – NEW REFLECTANCE INDEX FOR DIAGNOSTICS OF NITROGEN STATUS IN BARLEY	
Novotná <i>et al.</i>	120
MONITORING RUSTS OCCURENCE IN GRASSES VARIETIES	
Novotná, Novotná	125
CALIBRATION OF THE CROP GROWTH MODELS FOR WINTER WHEAT	
Pohanková <i>et al.</i>	130
THE CONTENT OF ESSENTIAL OIL IN HOP CONES AND POSSIBILITIES IF ITS USAGE	
Pokorná <i>et al.</i>	136
TESTING THE VITALITY OF SEEDS FOR THE ESTABLISHMENT OF HIGH-QUALITY SOY CROP	
Procházka <i>et al.</i>	141
DEVELOPMENT OF MAIZE CULTIVATION AFTER RICE IN SMALL COMMUNITY FARMS IN KHAO WONG DISTRICT, KALASIN PROVINCE, THAILAND	
Rattanapichai <i>et al.</i>	147
EFFECTS OF SOIL CONDITIONER ON GROWTH AND YIELD OF RICE GROWN UNDER ACID SULFATE SOIL	
Rattanapichai <i>et al.</i>	152
EVALUATION OF SYRIAN WINTER WHEATS AS A SOURCE OF NEW GENETIC VARIABILITY	
Truhlářová <i>et al.</i>	157
THE EFFECT OF FOLIC APPLICATION OF MG-TITANIT FERTILIZER ON PHYTOMASS, CHLOROPHYLL PRODUCTION AND THE HARVEST OF WINTER WHEAT	
Vician, Kováčik	162

SECTION ANIMAL PRODUCTION

EFFECT OF TEMPERATURE AND LIGHT INTENSITY ON THE PREFERENCE OF CUBICLES IN THE STABLE OF DAIRY COWS CZECH FLECKVIEH	
Andrýsek <i>et al.</i>	172
STABLE MICROCLIMATE INFLUENCE ON PHYSIOLOGICAL ATTRIBUTES IN HORSES	
Bihuncová <i>et al.</i>	177
PATHOGENIC ESCHERICHIA COLI STRAINS IN RAW MILK OBTAINED FROM TWO FARMS OF THE EASTERN CAPE PROVINCE, SOUTH AFRICA	
Caine <i>et al.</i>	184
INFLUENCE OF LINES OF SIRES AND BREEDS OF SIRES ON DIFFERENCES IN THE BODY MEASUREMENTS OF THE CZECH WARBLOOD COLTS IN REARING FACILITIES FOR TESTING YOUNG HORSES (RFT)	
Černohorská <i>et al.</i>	188
EVALUATION OF THE TRANSFER OF COLOSTRAL ANTIBODIES BETWEEN MOTHER AND CALF	
Fröhdeová <i>et al.</i>	193
USING ICSI IN DIFFERENT CATEGORIES OF MALE FACTOR INFERTILITY	
Hanuláková <i>et al.</i>	197

<i>IN-VITRO</i> ANTIBACTERIAL SENSITIVITY OF USNEA BARBATA LICHEN EXTRACTED WITH METHANOL AND ETHYL-ACETATE AGAINST SELECTED <i>STAPHYLOCOCCUS</i> SPECIES FROM BOVINE MILK	
Idamokoro <i>et al.</i>	203
COMPARISON OF LACTOSE, CALCIUM, CHLORIDE CONTENT AND SOMATIC CELL COUNT IN BULK MILK SAMPLES FROM HOLSTEIN AND CZECH FLECKVIEH BREED	
Javorová <i>et al.</i>	207
THE EFFECT OF HERBS FEEDING ON ANTIOXIDANT LIVER ACTIVITY	
Kabourkova <i>et al.</i>	212
THE SPECTRUM OF FATTY ACIDS IN LIPIDS OF <i>SALVELINUS FONTINALIS</i> IN RELATION TO THE ORIGIN, FEED AND BREEDING DENSITY	
Kleinová <i>et al.</i>	216
COMPARISON OF GRAZING AREAS FOR FARMING HORSES AND CATTLE	
Klusoňová	221
LINES INFLUENCE ON THE EXTERIOR CHARACTERISTICS OF HORSE SPORTING BREEDS STALLIONS IN THE CZECH REPUBLIC	
Kost'uková <i>et al.</i>	226
THE EFFECT OF FEEDING 0 DAY CHICKEN DURING TRANSPORTATION ON INTESTINAL DEVELOPMENT	
Kovaříková	233
ULTRASTRUCTURAL ENERGETIC MODEL OF PORCINE OOCYTES WITH DIFFERENT MEIOTIC COMPETENCE	
Milaković <i>et al.</i>	238
INFLUENCE OF DIETARY CATION-ANION BALANCE ON PH RUMEN FLUID IN LACTATING DAIRY CATTLE	
Mrázková <i>et al.</i>	247
THE EFFECT OF BROILER CATCHING METHOD ON QUALITY OF CARCASSES	
Musilová <i>et al.</i>	251
USE OF REPOPULATION METHOD FOR INTENSIFICATION OF PIGLETS PRODUCTION	
Nevrkla <i>et al.</i>	256
THE ANALYSIS OF BODY CONFORMATION OF HUCUL HORSES BREED IN CZECH REPUBLIC WITH PLACE OF MEASURING INFLUENCE ASSESSMENT	
Oravcová <i>et al.</i>	262
EFFECTS OF PROTEASE SUPPLEMENTATION OF LOW PROTEIN BROILER DIETS ON GROWTH PARAMETERS AND CARCASS CHARACTERISTIC	
Rada <i>et al.</i>	268
INTERACTIONS BETWEEN ADULT DOGS IN OPEN SPACES	
Šedivá, Řezáč	273
EFFECT OF BIOCLIMATE AND MILKING FREQUENCY ON MILK PRODUCTION OF HOLSTEIN DAIRY COWS IN SUMMER	
Velecká <i>et al.</i>	278

SECTION AGROECOLOGY

EFFECT OF MINERAL NITROGEN AND ORGANIC CARBON ADDITION ON SOIL HYDROPHOBICITY AFFECTED BY RAINFALL VARIATIONS	
Elbl <i>et al.</i>	286

DESIGN OF THE EQUIPMENT FOR THE LONG-TERM MEASUREMENT OF THE CONCENTRATION OF PHOSPHATES AND NITRATES IN SURFACE WATERS	
Foltýnová <i>et al.</i>	291
PHYSICAL PARAMETERS OF CHERNOZEM LANDS AFFECTED BY WATER EROSION	
Hammerová <i>et al.</i>	296
THE INTENSITY OF WATER EROSION ON CHERNOZEMS SOUTH MORAVIA	
Hrabovská	301
IMPACT OF SOIL PROPERTIES ON SORPTION OF HEAVY METALS IN BELIANSKE TATRAS MTS	
Hudec <i>et al.</i>	308
DEVELOPMENT OF SELECTED PROPERTIES OF ARABLE SOILS TYPE CHERNOZEM	
Chmelár, Jandák	314
IMPACT OF MIXED-CULTURE CULTIVATION ON MICROBIAL ACTIVITIES IN RHIZOSPHERE SOIL	
Kintl <i>et al.</i>	322
THE POSSIBILITY OF USING COMPOST FOR PREPARATION OF RECLAMATION SUBSTRATE	
Kubná, Plošek	327
<i>FALLOPIA JAPONICA</i> HOUTT. AND <i>ROBINIA PSEUDOACACIA</i> L., AN INCREASINGLY INTRACTABLE PLANT PROBLEM OR NOT UNDERSTOOD OPPORTUNITY?	
Molitoris	331
MONITORING OF PHOSPHORUS IN SELECTED PROFILES OF THE VEVERKA STREAM	
Ondrůjová, Hubačíková	336
A MATHEMATICAL MODEL OF THE TEN-YEAR DEVELOPMENT OF AVERAGE MONTHLY TEMPERATURES IN THE TERRITORY OF THE CZECH REPUBLIC	
Osíčková, Bartoň	341
THE USE OF COMPOST TO REDUCE LEAKAGE OF MINERAL NITROGEN – LYSIMETER EXPERIMENT	
Plošek <i>et al.</i>	347
TOXIC EFFECTS OF ALGEXIT AND BLUE EXIT AGENTS ON AQUATIC ORGANISMS	
Poštulková, Kopp	352
ANALYSIS OF SPRING BARLEY ACTUAL EVAPOTRANSPIRATION	
Pozníková <i>et al.</i>	357
MONITORING OF DROUGHT ON THE CHMI WEBSITE	
Richterová, Kohut	362
THE HISTORY AND TRADITION OF THE BLUE AND RED DRUPES FRUIT GROWN IN THE AREA OF THE VILLAGE VANOVICE, CZECH REPUBLIC	
Sedláková	367
EVALUATING OF INFLUENCE OF SOIL POLLUTION BY AGRICULTURE IN VILLAGE MOČENOK	
Straňák	372

DIFFERENCE BETWEEN THE SIZE OF WATER EROSION BY ORIGINAL AND MODIFIED METHODOLOGIES (DEMONSTRATION OF CADASTRAL VÍCEMLICE)	
Šimečková	379
THE BIOLOGICAL BACKGROUND TO INTERNAL SOIL EROSION	
Urbánková <i>et al.</i>	384
EFFECTS OF UV RADIATION AND DROUGHT ON THE ACCUMULATION OF UV-SCREENING COMPOUNDS AND PHOTOSYNTHETIC PARAMETERS IN SELECTED HERBS AND GRASSES OF THE MOUNTAIN GRASSLAND ECOSYSTEM	
Veselá <i>et al.</i>	391
COMPARISON OF METHODS FOR DETERMINATION OF SELECTED INDICATORS OF SURFACE WATER QUALITY	
Zákoutská <i>et al.</i>	397

SECTION RURAL DEVELOPMENT

THE IMPACT OF WINTER TOURISM ON REGIONAL DEVELOPMENT: CASE STUDY OF ZARNOVICA REGION	
Bieliková	405
THE USE OF SOLAR ENERGY IN THE SOUTH MORAVIAN REGION	
Doskočilová	409
FUNCTION OF AGRICULTURE IN DEVELOPMENT OF MICROREGION CEDRON	
Galková	415
RENEWABLE ENERGY, AS A TOOL OF ECONOMIC INNOVATION IN RURAL AREAS	
Honvári, Kukorelli	421
THE IMPACT OF A ROAD CONSTRUCTION ON ECOLOGICAL STABILITY OF A MODEL AREA	
Igondová <i>et al.</i>	427
THE PROPOSAL OF LANDSCAPE ARRANGEMENTS AS AN EFFECT OF FLOODS IN THE SLOVAK RURAL REGIONS (CASE STUDY OF THE VILLAGE CHĽABA)	
Jakubcová, Grežo	433
LAND CONSOLIDATION AS AN INSTRUMENT FOR LAND OWNERSHIP DEFRAGMENTATION IN THE CZECH REPUBLIC AND SLOVAKIA	
Jusková, Muchová	444
ASSESSMENT OF CHANGES IN USING THE AGRICULTURAL LAND RESOURCES BASED ON DIGITAL SATELLITE SCENES AND AERIAL IMAGES	
Koleda, Janečka	449
THE USE OF GEOTHERMAL ENERGY IN SOUTH MORAVIAN REGION	
Lincová	454
THEORETICAL AND METHODOLOGICAL ASPECTS OF IDENTIFYING MARGINAL RURAL AREAS IN THE SLOVAK AND CZECH STUDIES	
Máliková	459
IMPLEMENTING THE STATUS OF LICENSED EXPERTS FOR IMPACTS EVALUATION ON NATURA 2000 SITES INTO THE EIA PROCESS IN THE CONDITIONS OF SLOVAKIA – PROGRESS OR STEP BACK?	
Michalcová, Streberová	465
SOUTH-MORAVIAN COUNTRYSIDE AS A SPACE FOR THE ENERGY PRODUCTION FROM RENEWABLE SOURCES – WASTE	
Petráková, Vaishar	471

HOW TO IMPROVE THE CONTRIBUTION OF LOCAL FOOD SUPPLY CHAINS TO THE DEVELOPMENT OF RURAL AREAS WITH DIFFERENT METHODOLOGICAL APPROACHES: A SLOVENIAN CASE STUDY	
Prišenk, Borec	476
RECREATION POTENTIAL OF HORNÉ KYŠUCE MICRO-REGION	
Smažák	482
THE ECONOMIC AND SOCIAL ASPECTS OF ENERGY PRODUCTION FROM RENEWABLE ENERGY SOURCES IN THE SOUTH MORAVIAN COUNTRYSIDE	
Stonawská, Vaishar	487
PRESENT LANDSCAPE STRUCTURE ELEMENTS IN ATTITUDE TO LANDSCAPE HYDRIC POTENTIAL IN BOŠÁCA VALLEY	
Stranovský	492
EVALUATION OF CURRENT STATE AND OPTIONS OF DEVELOPMENT OF RURAL MUNICIPALITIES IN URBAN FUNCTIONAL REGION BANSKÁ ŠTIAVNICA	
Škvarková, Slabeciusová	499
THE DEVELOPMENT AND CURRENT SITUATION OF ENVIRONMENTAL IMPACT ASSESSMENT AND STRATEGIC ENVIRONMENTAL ASSESSMENT IN SLOVAK REPUBLIC AND HUNGARY	
Tamášová	505
SOUTH MORAVIAN COUNTRYSIDE AND THE WIND ENERGY	
Thonnová	510
THE ROLE OF LANDSCAPE ARCHITECTURE IN RURAL DEVELOPMENT	
Tóth, Feriancová	516
THE PROPOSAL OF THE WASTE ISSUES IMPLEMENTATION ON THE DIFFERENT STAGES OF EDUCATION IN THE CONTEXT OF RURAL DEVELOPMENT	
Varga	521
LAND CONSOLIDATION AS AN USEFUL TOOL FOR RURAL DEVELOPMENT	
Varga, Bažík	526
MEASUREMENT OF EMISSIONS ESCAPING FROM STATIONARY COMBUSTION SOURCES BY A BIOGASS PLANT	
Vasylchenko <i>et al.</i>	531
INDICATORS OF THE QUALITY OF LIFE IN THE SOUTH MORAVIAN REGION ACCORDING TO THE SELECTED METHODOLOGY	
Žitňáková	537
EDUCATIONAL TRAIL AS AN INSTRUMENT OF TOURISM DEVELOPMENT IN RURAL AREA	
Žoncová <i>et al.</i>	542

SECTION FOOD TECHNOLOGY

THE ESTIMATED POSSIBILITIES OF THERMODYNAMIC SENSORS IN FOOD INDUSTRY	
Adámková <i>et al.</i>	550
FUSARIUM SPECIES SPECTRUM IN ASYMPTOMATIC KERNELS OF SPRING BARLEY	
Bíliková, Hudec	555
MONITORING OF PHTHALATES IN MORAVIAN AGRICULTURAL SOILS IN 2011 AND IN 2012	
Daňková <i>et al.</i>	563

COMPARISON OF ANTIMICROBIAL ACTIVITY OF ESSENTIAL OILS AND AQUEOUS EXTRACTS	
Dostálová <i>et al.</i>	568
THE USING OF NEAR INFRARED SPECTROSCOPY WITH THE FOURIER TRANSFORMATION	
FOR THE DETECTION OF THE TYPE AND THE DEGREE OF COFFEE ROASTING	
Dvořák <i>et al.</i>	575
EFFECT OF N-3 AND N-6 POLYUNSATURATED FATTY ACIDS ON PLASMA CHOLESTEROL IN TISSUES OF RATS	
Kotková <i>et al.</i>	580
DYNAMICS OF CHANGES IN THE PROTEIN PROFILE OF BARLEY GRAIN DURING THE BREWING PROCESS USING DIFFERENTIATED FERTILIZATION WITH NITROGEN AND SULPHUR	
Kotková, Hřivna	585
PHTHALATES IN COW MILK DEPENDING ON THE METHOD OF MILKING	
Krejčíková, Jarošová	592
YIELD AND QUALITY OF SUGAR BEET AFTER FOLIAR FEEDING	
Pechková, Hřivna	597
EGGSHELL CRACK DETECTION USING DYNAMIC FREQUENCY ANALYSIS	
Strnková, Nedomová	603
ANTIMICROBIAL PROTECTION OF POTATOES USING COMBINATION OF ESSENTIAL OILS AND WARM AIR FLOW	
Smid <i>et al.</i>	609
ANTIMICROBIAL EFFECTS OF SELECTED PLANT EXTRACTS ON THE SHELF LIFE OF GOAT WHEY	
Teplá <i>et al.</i>	614
THE INFLUENCE OF POLYUNSATURATED FATTY ACIDS ON CHOLESTEROL HOMEOSTASIS	
Valová <i>et al.</i>	621

SECTION PLANT BIOLOGY

NON-DESTRUCTIVE ANALYSIS OF THE CONTENT OF ANTHOCYANINS AND FLAVONOIDS IN PLANTS	
Barányiová, Brestič	629
A VERIFICATION OF THE POSSIBILITY OF MYCOTOXIN DETERMINATION IN BARLEY CARYOPSES BY NEAR-INFRARED SPECTROSCOPY	
Bezděková, Bradáčová	634
EFFECT OF STRIGOLACTONE ON POLAR AUXIN TRANSPORT AND PLANT ARCHITECTURE	
Daňková, Reinöhl	639
GENETIC RESOURCES OF MILK THISTLE [<i>SILYBUM MARIANUM</i> (L.) GAERTN.]	
Kolářková, Růžičková	644
DETERMINATION OF OIL CONTENT IN WHOLE MILK THISTLE SEEDS USING FOURIER TRANSFORM NEAR – INFRARED (FT – NIR) SPECTROSCOPY	
Kolářková, Šišperová	649
COMPETITIVE CANALIZATION OF AUXIN IN PEA CAN BE INVOLVED IN INITIATION OF AXILLARY BUD OUTGROWTH	
Medved'ová <i>et al.</i>	654

PREDICTION OF TECHNOLOGICAL QUALITY OF WHEAT BASED ON GENETIC MARKERS

Podhorná *et al.*

659

THE DROUGHT EFFECT ON PRODUCTIVITY OF DIFFERENT SPRING BARLEY GENOTYPES

Presinszká, Kovár

664

INTERACTIVE EFFECTS OF ELEVATED CO₂ CONCENTRATION, DROUGHT AND NITROGEN NUTRITION ON YIELD AND GRAIN QUALITY OF WINTER WHEAT**Rajsnerová, Klem**

669

STUDY OF CHALCON ISOMERASE AND ANTHOCYANIDIN SYNTHASE DNA SEQUENCES IN WHEAT (*TRITICUM AESTIVUM* L.)**Sekanina *et al.***

674

GENOMIC ANALYSES OF DIHYDROFLAVONOL REDUCTASE GENE IN GENOTYPES OF COMMON WHEAT (*TRITICUM AESTIVUM* L.) WITH NONSTANDARD COLOURED CARYOPSES**Štiasna *et al.***

678

SECTION ANIMAL BIOLOGY

THE MORPHOMETRY OF MALE ADULTS OF SOUTHERN HAWKER (*AESHNA CYANEA* (MÜLLER, 1764) *ODONATA: AESHNIDAE*) FROM THE SLOVAK REPUBLIC**Ábelová, David**

686

REAL-TIME SENSING OF DOXORUBICIN IN AN ISOLATED RAT HEART

Blažková *et al.*

691

BIRDS (*AVES*) IN THE SURROUNDINGS OF JIŘÍKOVICE – DIVERSITY, THREAT AND IMPORTANCE**Daňková**

696

THE EFFECT OF MOLYBDENUM ON OVARIAN FUNCTIONS OF RAT

Detvanová *et al.*

701

SPECIES SPECTRUM AND FLIGHT ACTIVITY OF PSOCIDS (*PSOCOPTERA*) IN PERMANENT RESEARCH AREAS IN THE HIGH TATRAS IN 2008**Faktorová**

706

ARACHNOFAUNA OF TREES AND CROWNS IN THE VICINITY OF LINE BUILDINGS

Fišáková, Hula

711

PRELIMINARY EVALUATION OF CARABIDAE (*COLEOPTERA*) IN AN EXPERIMENTAL AREA NEAR HODONÍN**Frýželková**

716

HOW ABOUT EATING THE NEIGHBOUR?

Havlová *et al.*

721

POLYMORPHISM IN ASIP, MC1R AND MATP GENES IN RELATION TO COLOR IN HORSES

Horecká, Knoll

726

ASSOCIATION OF SINGLE NUCLEOTIDE POLYMORPHISM IN TG, LEP AND SCD1 GENES WITH CARCASS TRAITS IN HIGHLAND AND GALLOWAY CATTLE

Horecký, Knoll

732

ICHTHYOLOGICAL SURVEY OF MORAVICE RIVER ABOVE THE SLEZSKÁ HARTA DAM

Chalupa *et al.*

737

THE EFFECT OF HEAVY METAL IONS ON <i>STAPHYLOCOCCUS AUREUS</i> Chudobova et al.	743
COMPARISON OF TWO METHODS OF IMAGE ANALYSIS FOR THE EVALUATION OF SURFACE FIN Klíma et al.	748
3D CHIP AS A TOOL FOR ISOLATION AND DETECTION OF INFLUENZA VACCINE HEMAGGLUTININ Krejčova et al.	753
VARIABILITY OF LEPR GENE AND HIS ASSOCIATION WITH INDICATORS OF PRODUCTION PORK Mazalová	758
EFFECT OF AGE ON THE SPERM ACTIVITY, SPERM CELL VIABILITY AND TOTAL NUMBER OF SPERMATOZOA IN THE EJACULATE OF DOGS Paldusová et al.	764
ECOLOGY AND HABITAT PREFERENCES OF <i>ONYCHOGOMPHUS FORCIPATUS</i> (LINNAEUS, 1758) <i>ODONATA: GOMPHIDAE</i>) FROM THE SLOVAK REPUBLIC Petrovičová, David	769
THE EFFECT OF DIFFERENT PRESPAWN HOLDING TEMPERATURES ON THE DEGREE OF STERLET (<i>ACIPENSER RUTHENUS</i>) BROODSTOCK FEMALES OOCYTE RIPENESS Rybníkář, Mareš	774
EPIGEIC BEETLES (<i>COLEOPTERA</i>) OF THE HILL VÝHON AT ŽIDLOCHOVICE Schiller et al.	780
THE EFFECT OF <i>STAPHYLOCOCCUS AUREUS</i> BACTERIA TO PROPORTION OF GAMMA DELTA T-LYMPHOCYTES FROM BOVINE MAMMARY GLAND Šustrová, Sláma	788
THE FOOD OF PERCH (<i>PERCA FLUVIATILIS</i> L.) IN A BIOMANIPULATED WATER SUPPLY RESERVOIR Zapletal et al.	793
COMPARISON OF FIELD AND LAB APPLICATION OF <i>HERMETIA ILLUCENS</i> LARVAE Žáková, Borkovcová	798

SECTION TECHNIQUES AND TECHNOLOGY

EVALUATION OF POLLUTION OF NEWLY DEVELOPED BIODEGREDEABLE FLUID DURING ACCELERATED LABORATORY TESTS Angelovič et al.	805
CARBON DIOXIDE CONCENTRATION IN FARROWING PENS FOR LACTATING SOWS AND PIGLETS Dubeňová et al.	810
CONCEPTUAL SOLUTION OF TECHNOLOGY LINE FOR FUEL PRODUCTION FROM BIODEGRADABLE COMMUNAL WASTE John	815
ANALYSIS OF OPERATING PARAMETERS OF THE VEHICLE VIA CAN-BUS Jukl et al.	820
HMI EMBEDDED SYSTEM DESIGN AS A FUNCTION OF TECU Katrenčík et al.	826

THE DEVICE FOR MECHANICAL FILTRATION OF PETROLEUM PRODUCTS	
Kolářek, Černý	832
LABORATORY MEASUREMENTS OF FLAT-PLATE MILK COOLERS	
Nejtek <i>et al.</i>	837
INFLUENCE OF THE ENVIRONMENTAL LEGISLATION ON THE VALUE OF THE ENTERPRISES TECHNICAL EQUIPMENT IN POULTRY BREEDING	
Paseka <i>et al.</i>	842
ANALYSIS OF MODERN METHODS IN WELDING TECHNOLOGY OF TECHNICAL MATERIALS	
Polak, Dostal	847
EXPERIMENTAL CHAMBERS FOR AUTOMATIC FUMIGATION OF PLANTS WITH ELEVATED CO ₂ CONCENTRATION AND DROUGHT STRESS INDUCTION WITH THE USE OF RECIRCULATION	
Rajsner, Klem	852
TRACTOR ENGINE MODES SETTINGS AND THEIR INFLUENCE ON OPERATION ECONOMY	
Skřivánek <i>et al.</i>	857
DESIGN OF TUBULAR SPACE FRAME FOR FORMULA STUDENT RACE CAR	
Slimarik, Bauer	862
DEVELOPMENT OF SEEDER FOR PLUG TRAY	
Sriwongras, Dostal	867
THE INFLUENCE INFLATION PRESSURE IN THE TIRES ON SOIL COMPACTION	
Svoboda, Červinka	872
DESIGN OF A MONITORING DEVICE TO IDENTIFY A HUMAN FACTOR INFLUENCING ON FUEL CONSUMPTION OF A LORRY	
Szabó <i>et al.</i>	877
GRANULOMETRIC STUDY OF DASA® 26/13 FERTILISER	
Šima <i>et al.</i>	882
OBSERVING THE EFFECT OF FORMIC ACID ON APIS MELLIFERA USING ACOUSTIC EMISSION METHOD	
Tlačbaba <i>et al.</i>	888
UTILISATION OF PROGRAM SURFER IN THE MODELLING OF SURFACE AREAS OF TERRAIN SURFACE	
Váliková, Antl	893
EFFECT OF THE SATELLITE GUIDANCE SYSTEM ON THE MACHINE WORKING WIDTH	
Vášek, Rataj	899
SECTION APPLIED CHEMISTRY AND BIOCHEMISTRY	
APOFERRITIN AS A TARGETED DRUG DELIVERY SYSTEM	
Dostálová <i>et al.</i>	908
LIPOSOMES AS DRUG CARRIERS AND THEIR CHARACTERIZATION USING DIFFERENT ANALYTICAL METHODS	
Guráň <i>et al.</i>	913
THE ROLE OF NITRIC OXIDE MODULATORS IN UPTAKE OF CADMIUM BY CHAMOMILE PLANTS (<i>MATRICARIA CHAMOMILLA</i> , <i>ASTERACEAE</i>)	
Jarošová <i>et al.</i>	919

DEVELOPMENT AND MINIATURIZATION OF METHODS FOR BETA-GLUCOSIDASE CHARACTERIZATION

Kremplova *et al.* 924

THE USE OF NANOTECHNOLOGY AS MODERN TOOLS TO TREAT INFECTIONS CAUSED BY MULTIRESISTANT BACTERIA STRAINS

Sklenar *et al.* 929

FLUORESCENCE PROPERTIES OF QUANTUM DOTS

Šmerkova *et al.* 934

ANALYSIS OF GUNSHOT RESIDUES BY LA-ICP-MS

Štůlová *et al.* 940

ELECTROCHEMICAL DETECTION OF THE INTERACTION QUANTUM DOTS WITH METALLOTHIONEIN

Tmejová *et al.* 945