

EFFICACY OF FUNGICIDE PROGRAMMES FOR THE CONTROL OF LATE BLIGHT (*PHYTOPHTHORA INFESTANS*) IN ROMANIA

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Keywords. late blight, fungicide, control program

Introduction. Late blight caused by *Phytophthora infestans* remains the greatest potential disease in Romanian potato crop. Late blight can destroy foliage prematurely and in short time, reducing production, while the tuber infections associated with rots can cause important crop losses during storage.

Aims. to compare the control efficacy of fungicides using a disease management program so to save 1 out of 3 sprays during the growing season.

Materials and Methods. Field experiments were carried out in NIRDSB Brasov between 2013 - 2014 to determine the effectiveness of fungicide spray programmes to control potato late blight.

In both years it was used Christian a Romanian potato variety moderately susceptible to *Phytophthora*.

Plots were assessed for the extent of blight spots on the leaves. Each plot was assessed as a whole for percentage disease severity using a standard accepted key. (Anonymous, 1947)

Results. In 2013 June rains accompanied by high temperatures conducted to the presence of late blight in the second part of the month (21st June). In 2014 the high frequency of rainy days and optimum temperature determined the occurrence of the disease in June 17th. In both years Revus and Infinito reduced foliage blight compared with Bravo and performed similarly applied at the same intervals. Shirlan gave less foliage blight than Bravo and has the capacity to reduce tuber blight. Regarding the yield, in 2013 the untreated plot had 19.2 t/ha and to the sprayed plot the yield varied between 30.7 to Revus at 28.6 t/ha to Bravo. In 2014 the untreated plot had 16.2 t/ha and to the sprayed plot the yield varied between 26.2 to Revus at 24.64 t/ha to Bravo.

Conclusions. Research indicates that fungicide applications are most successful if they start when the canopy begins to close within the row. Applications should continue throughout the growing season. Protectant fungicides should be used before development of disease. If late blight is present, a combination of protectant and systemic/eradicant fungicides should be used.

References.

1. Anonymous, 1947. The measurement of potato blight. Trans. Brit. Mycological Society 31: 140-141



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WELCOME MESSAGE

We are pleased to welcome you at the University of Agricultural Sciences and Veterinary Medicine from Cluj-Napoca, Romania to share our scientific performance and progress during this special scientific event.

The University of Agricultural Sciences and Veterinary Medicine from Cluj-Napoca, recently classified in the first category of “advanced research” universities of Romania, place also confirmed by the European University Association (EUA). The University becomes nowadays one of the most prestigious academic institutions from Romania.

The 14th International Symposium "Prospects for the 3rd Millennium Agriculture", is a dynamic forum of exchanges for scientific experiences, innovative ideas and concepts, future prospects in agriculture, plant and animal science, food science and technology, biotechnology, veterinary medicine, as well in other interdisciplinary and transdisciplinary areas.

The 14th International Symposium "Prospects for the 3rd Millennium Agriculture" includes invited conferences, presented by known international and national personalities, oral and poster presentations, as well round tables and exhibitions, where recent advanced scientific and technical results can be seen, especially now, in the context of the new European Research Program "Horizon 2020" and of the national Research – Technological Development and Innovation Program, related to Life Sciences.

The symposium program will consist of ten main sections:

1. Agriculture
2. Environmental Protection and Sustainable Development
3. Food Science and Technology
4. Horticulture and Forestry
5. Economics and Rural Development
6. Animal Science
7. Biotechnology
8. Veterinary Medicine - Fundamental and preclinical sciences
9. Veterinary Medicine - Clinical sciences
10. Land Measurement, Natural and Humanistic Sciences

The participants registered to our symposium have the opportunity not only to present their results, published as summary in the “Book of Abstracts” but also to publish in extenso their contributions. The oral presentations, after a previous peer review process, can be published in the journal Bulletin of UASVM-CN nr. 72(2)/2015 – Agriculture, Horticulture, Animal Science-Biotechnology, Veterinary Medicine and Food Science and Technology.

This proceedings’ “Book of Abstracts” contain 584 abstracts submitted by participants from different countries. We wish to thank all participants and organizers for making this meeting possible. We do hope that you will find during the 14th International Symposium an interesting program and a great opportunity to interact with colleagues and friends from Romania.

With best wishes,

Prof. dr. Doru PAMFIL, Rector

Prof. dr. Carmen SOCACIU, Vice-rector for Research

ANNOTATION

**The abstracts and contact information are submitted by the main authors.
Each author explicitly confirms that the abstract meets the ethical standards for authors
and coauthors.**

SYMPOSIUM PROGRAM

Wednesday, 23rd of September 2015		
14:00 - 16:30	Doctor Honoris Causa Award Ceremony • Prof. dr. Shimon Harrus, Israel • Prof. dr. Klaus Schaller, Germany	Aula Magna "Mihai Serban", USAMV Cluj-Napoca
17:00 - 19:00	Registration of participants	Hall of Aula Magna "Mihai Serban", USAMV Cluj-Napoca
19:00 - 22:00	Welcome Party	
Thursday, 24th of September 2015		
8:00 - 15:00	Registration of participants	Hall of Aula Magna "Mihai Serban", USAMV Cluj-Napoca
9:00 - 9:15	Opening ceremony Rector, Prof. Dr. D. Pamfil Representatives of Ministries, Academy and local authorities	Aula Magna "Mihai Serban"
9:15 - 10:30	1st Plenary Session (Aula Magna "Mihai Serban") Chairmen: Prof. dr. Carmen Socaciu, Prof. Dr. Shimon Harrus, Prof. Dr. Klaus Schaller	
9:15 - 9:40	<i>Bartonellosis</i> in pets, rodents and humans Prof. Dr. Shimon Harrus	Israel
9:40 - 10:05	Types of Linkages of different cations in grapevine berries of some important varieties of <i>Vitis vinifera</i> used for winemaking Prof. Dr. Klaus Schaller	Germany
10:05 - 10:30	Role of forage legumes in intensive dairy farming systems Dr. Alex De Vliegher	Belgium
10:30 - 11:00	Coffee break	
11:00 - 11:50	2nd Plenary Session (Aula Magna "Mihai Serban") Chairmen: Dr. Alex De Vliegher, Prof. dr. Jaime Prohens	
11:00 - 11:25	Use of wild relatives for increasing the genetic base and adaptation to climate change of eggplant Prof. dr. Jaime Prohens	Spain
11:25 - 11:50	<i>Landscape genetic approaches to climate change adaptation in Agriculture</i> Prof. dr. Brufford Michael	United Kingdom
12:00 - 14:30	Lunch (Biodiversity Institute or Agronomia Restaurant)	
14:30 - 19:00	Oral Sessions (sections I-X)	
14:30 - 19:00	Poster Display	Hall of Institute of Life Sciences
20:00 - 21:30	Dinner (Agronomia restaurant)	

Friday, 25th of September 2015		
09:00 - 11:00	Oral Sessions (sections I-X)	
09:00 - 11:00	Poster Display	Hall of Institute of Life Sciences
11:00 - 11:30	Coffee break	
11:30 – 13:00	Oral Sessions (sections I-X)	Poster viewing (Hall of Institute of Life Sciences)
13.00 - 15:00	Lunch (Agronomia restaurant)	
15:00 - 17:00	Poster presentations (sections I-X)	Hall of Institute of Life Sciences
14:30 - 16:00	Round tables organized by Faculty of Veterinary Medicine	Council Room and Clinic of reproduction
19:00 - 24:00	Banquet (tbe)	
Saturday, 26th of September 2015		
08:00 - 21:00	Transylvania tour – optional (35 EURO) Visit of Alba Iulia, Sibiu (details in www.romaniatourism.com/sibiu.html) and Saline Turda (http://www.salinaturda.eu).	

LIST OF ABSTRACTS

ORAL PRESENTATIONS.....	53
-------------------------	----

SECTION 1: AGRICULTURE

ZOO-VETERINARY BIODIVERSITY IN THE CONTEXT OF ECO-BIO-GEO-ECONOMIC ENVIRONMENTAL PROTECTION AND SUSTAINABLE DEVELOPMENT FOR THE TWENTY-FIRST CENTURY, CONSIDERING THE THIRD MILLENNIUM PROSPECTS

A.T.BOGDAN Dorina Maria BOGDAN ¹ , Ștefan MANTEA ² , Iudith IPATE ¹ , Amalia-Gianina STRĂTEANU ¹ , Dana COMȘA ¹ , G.F. TOBĂ ¹ , Diana PITIC, M.Th. PARASCHIVESCU ¹ , C. HIDEGL, Mariana TRANDAFIR, Mariana PIPIRIGEANU ¹	54
--	----

ROLE OF FORAGE LEGUMES IN INTENSIVE DAIRY FARMING SYSTEMS

Alex DE VLIEGHER.....	55
-----------------------	----

CONTRIBUTION REGARDING USING SHEEP WOOL IN CROP ENHANCEMENT

Maria ADI, Ioan PĂCURAR	56
-------------------------------	----

MAKING AGRICULTURAL PRODUCTION MORE ETHICAL BY DOING LESS

Stef AERTS ^{1,2}	57
---------------------------------	----

RESEARCH REGARDING THE INFLUENCE OF DRYING AGENT'S SPEED AND TEMPERATURE ON THE WORK PROCESS OF CORN DEHYDRATION

Vlad-Nicolae ARSENOAIA, Ioan ȚENU, Radu ROȘCA, Petru CÂRLESCU and Cezara ZĂPODEANU*	58
---	----

APPLYING THE NEW METHODOLOGY FOR DETERMINING THE SUITABILITY OF LAND FOR FRUIT PRODUCTION

Stefan BAKOS ^{1,2} , Marilena MĂRGHITAȘ ²	59
---	----

USE OF SEX PHEROMONES IN MONITORING OF *TUTA ABSOLUTA* SPECIES

Raul BĂEȚAN ^{1*} , Stefania TÖTÖS ² , Ion OLTEAN ¹ , Teodora FLORIAN ¹	60
--	----

INFLUENCE OF ABIOTIC RISK FACTORS ON PARENTAL FORMS IN SOME REGISTERED CORN HYBRIDS

Claudiu Gabriel BĂLAŞ-BACONSCHI ^{1*} , Ioan HAŞ ^{1,2} , Ana COPÂNDEAN ²	61
--	----

STUDY OF DYNAMICS SPAD AND NDVI VALUES OF POTATO PLANTS ACCORDING TO THE DIFFERENTIATED FERTILIZATION

Nina BĂRĂSCU ^{1,2} , Marcel M. DUDA ¹ , Gheorghe OLTEANU ²	62
---	----

CONTRIBUTION OF ARBUSCULAR MYCORRHIZA TO PRODUCTIVITY OF BARLEY ON CONTRASTING CROPPING SYSTEMS, IN CENTRAL GREECE

Dimitrios BESLEMES ¹ , Evangelia TIGKA ¹ , Dimitrios VLACHOSTERGIOS ¹ and Dimitrios BILALIS ^{2*}	63
--	----

QUALITY FEATURES ANALYSIS OF AN ASSORTMENT OF WINTER WHEAT GENOTYPES TESTED AT A.R.D.S. TURDA, IN THE YEAR OF 2014

Camelia CAZACU (URDĂ) ^{1,2} , Rozalia KADAR ² , Marcel M. DUDA ¹	64
---	----

ANTIOXIDANT AND ANTIBACTERIAL ACTIVITY OF PARSLEY (*PETROSELINUM CRISPUM*), DILL (*ANETHUM GRAVEOLENS*) AND LOVAGE (*LEVISTICUM OFFICINALE*)

Giorgiana Mihaela CĂTUNESCU ¹ , Ioan ROTAR ² , Roxana VIDICAN ^{2*} , Ancuta M. ROTAR ^{3*} , Mircea MUNTEAN ¹ , Ovidiu MARIAN ¹ and Florina BUNGHEZ ³	65
---	----

RESEARCH REGARDING THE INFLUENCE WEED CONTROL TREATMENTS ON PRODUCTION AND QUALITATIVE INDICATORS SOYBEAN CULTIVATED IN MINIMUM TILLAGE SYSTEM

Cornel CHEȚAN^{1,2*}, Teodor RUSU², Felicia, CHEȚAN^{1,2}, Alina ȘIMON^{1,2} 66
SOY CULTURE IN MINIMUM TILLAGE AND THE INFLUENCE ON SOIL ATTRIBUTES, ARDS TURDA, 2005-2014

Felicia CHEȚAN^{1,2*}, Cornel CHEȚAN^{1,2}, Teodor RUSU² și Alina ȘIMON^{1,2} 67
CHANGES IN PHYTO-DIVERSITY ON *FESTUCA RUBRA L.* -*AGROSTIS CAPILLARIS L.* GRASSLANDS

Mirela CIREBEA^{1*}, Ioan ROTAR¹, Roxana VIDICAN¹, Florin PĂCURAR¹, Anca PLEȘA¹ and Ovidiu RANTA² 68
ANTIOXIDANT ACTIVITY IN SOME ROMANIAN GARLIC (*ALLIUM SATIVUM L.*) LANDRACES

Mihaela CORNEANU¹ and Cristina BĂBEANU^{2*} 69
THE INFLUENCE OF NOZZLE TYPE ON THE COVERAGE DEGREE WHEN PERFORMING PHYTOSANITARY TREATMENTS

Ioan DROCAȘ, Ovidiu MARIAN*, Adrian MOLNAR, Mircea MUNTEAN 70
RESEARCH CONCERNING THE ECONOMIC EFFICIENCY OF FOUR SPECIES OF MEDICINAL PLANTS GROWN IN THE WESTERN PART OF TRANSYLVANIAN PLAINE

Simona DUDA, Liviu Al. MĂRGHITAȘ, Dan DEZMIREAN and Otilia BOBIȘ* 71
EXPRESSION OF GENES WHICH WORKS ON SALT-NITRIC OXIDE AND SALT-ABSCISIC ACID INTERACTIONS ON WHEAT (*TRITICUM AESTIVUM L.*) SEEDLINGS AND ANTIOXIDANT ENZYME ACTIVITY

Nuray ERGUN* and Ozge TEMIZKAN 72
PHYSIOLOGICAL REACTIONS OF SUNFLOWER PLANTS TO DIFFERENT SPECIES OF SELENIUM

Farzaneh GAROUSI^{1*}, Béla KOVÁCS², Éva BÓDI¹, Szilvia VÁRALLYAY¹ and Szilvia VERES² 73
INCREASING BIOACTIVE SUBSTANCES OF *LAVANDULA ANGUSTIFOLIA* GROWN IN HYDROPONIC SYSTEMS, THROUGH SUPPLEMENTAL LIGHTING (LED)

Radu Mircea GIURGIU¹, Gavril MORAR¹, Adelina DUMITRAȘ¹, Gabriela VLĂSCLEANU³, Alina DUNE³, Nico DOMURATH⁴, Fritz-Gerald SCHRÖDER^{2*} 74
EVALUATION OF PLANT GROWTH STIMULATION POTENTIAL OF SELECTED BACTERIAL STRAINS AND THEIR BIOCONTROL ACTIVITY AGAINST *FUSARIUM SPP.*

Iulian GROSU, Oana SICUIA, Andreea DOBRE, Catalina VOAIDES, Petruța CORNEA 75
CLASSIFICATION OF LAND AND CROPS BASED ON SATELLITE IMAGES LANDSAT8: CASE STUDY SD TIMISOARA

Mihai HERBEI¹, Florin SALA^{2*} 76
RESEARCH ON THE CHANGED OPERATING PARAMETERS DURING OPERATION MMAT 110-03 AND IDK 120-04 NOZZLES

Ovidiu MARIAN, Ioan DROCAȘ*, Adrian MOLNAR, Mircea MUNTEAN, Ovidiu RANTA 77
TESTING SOME FUNGICIDES FOR THE COMBAT OF POTATO MILDEW IN THE PEDOCLIMATIC CONDITIONS IN SEINI TOWN

Lucia MIHĂLESCU^{1*}, Zorica VOŞGAN¹, Oana MARE ROSCA¹, Monica MARIAN¹, Stela JELEA¹, Anca DUMUȚA¹, Aurel MAXIM², Mirela CORDEA² 78

ATTACK BY THE FUNGUS *PODOSPHAERA LEUCOTRICHA ELL ET EV* IN CLIMATIC CONDITIONS FROM TIMISOARA DURING THE YEARS 2007 - 2011

Levente Ștefan MOLNAR¹, Ramona ȘTEF¹, Alin Flavius CĂRĂBET¹, Ioana GROZEA¹, Ana-Maria VÎRTEIU¹, Veaceslav MAZĂRE² 79

THE EFFECT OF SALINITY STRESS ON SEED GERMINATION OF RED CLOVER (*TRIFOLIUM PRATENSE L.*) AND ALFALFA (*MEDICAGO SATIVA L.*) SEEGLINGS

Monica NISTE¹, Rodica POP², V. STOIAN¹, Ioana BERINDEAN¹, Adriana CRISTE³, Roxana VIDICAN^{1*} 80

THE RELATION BETWEEN SOIL QUALITY AND LAND USE IN A AGRO-PASTORAL MANAGEMENT SYSTEM IN MURES VALLEY

Claudia Ioana OARĂ^{1*}, Nicolae MOLDOVAN¹, Ioan PĂCURAR¹, Ștefan BILAȘCO² and Horea CACOVEAN³ 81

USE OF SEMIOCHEMICAL PRODUCTS IN MONITORING AND CONTROL OF *EPICOMETIS HIRTA* SPECIES

Ion OLTEAN¹, Laura MACAVEI¹, Iuliana VASIAN², Stefania TÖTÖS², Mircea VARGA¹ and Teodora FLORIAN^{1*} 82

THE EFFECTS OF ORGANIC FERTILIZERS ON THE QALITY AND PRODUCTIVITY OF MOUNTAIN GRASSLANDS

Florin PĂCURAR*, Ioan ROTAR, Roxana VIDICAN, Anca BOGDAN, Ágnes BALÁZSI, Adrian GLIGA 83

TESTING THE EFFECT OF SULPHONILUREA HERBICIDES UPON MAIZE CROPS IN CLIMATIC CONDITIONS OF SCDA TURDA

Horia Alexandru POP, Teodor RUSU*, Ileana BOGDAN 84

EFFECT OF SOME MICRONUTRIENTS ON GROWTH AND YIELD OF WHEAT AND ITS LEAVES AND GRAIN CONTENT OF IRON AND BORON

Hamzeh RAWASHDEH^{1,2*} and Florin SALA² 85

ANSWER OF A SOYBEAN GENOTYPE CREATED ON ARDS TURDA TO DIFFERENT FERTILIZATION

Ioan ROTAR¹, Valeria MĂRCUŞ (căs. DEAC)^{1*}, Roxana VIDICAN¹, Anamaria MĂLINAS¹ 86

EFFECTS OF MULCHING AND MULCHING WITH MINERAL FERITLIZERS ON THE FLORISTIC COMPOSITION OF OLIGOTRHPHIC GRASSLANDS AFTER SIX YEARS

Ioan ROTAR, Florin PĂCURAR*, Roxana VIDICAN, Ágnes BALÁZSI, Anca BOGDAN and Vlad STOIAN 87

THE INFLUENCE OF SOIL PROTECTIVE AGRO-TECHNICAL METHODS ON CORN PRODUCTIVITY IN DOBROGEA

Violeta SIMIONESCU^{1,2}, Monica TANC², Ion BULICĂ² 88

INTER-RADICULAR CONNECTIONS *FESTUCA RUBRA* AND *TRIFOLIUM REPENS*

Vlad STOIAN^{1*}, Roxana VIDICAN¹, and Ioan ROTAR¹ 89

OPTIMIZATION WORK OF SOIL FOR THE CULTIVATION OF AFILA PEAS IN TURDA AREA

Alina ȘIMON^{1,2*}, Teodor RUSU², Felicia CHEȚAN^{1,2}, Cornel CHEȚAN^{1,2} 90

GROWTH IN WHEAT AND MAIZE

Ramona ȘTEF¹, Alin CĂRĂBET¹, Ioana GROZEA¹, Ana-Maria VÎRTEIU¹, Levente MOLNAR¹ and Veaceslav MAZĂRE² 91

PROLIFICACY STUDY OF MAIZE INBRED LINES AND HYBRIDS ON SCDA-TURDA

Emilia TINCA¹, Ioan HAS^{1,2} and Ana COPÂNDEAN² 92

IDENTIFICATION AND CHARACTERIZATION OF CAULIFLOWER MOSAIC VIRUS (CAMV) ISOLATES IN ÇANAKKALE PROVINCE

Hasan Tuna TUZLALI..... 93

SOME AGRO BIOLOGICAL PECULIARITIES, PHYSIC AND MECHANICAL PROPERTIES OF BIOMASS OF THE *MISCANTHUS GIGANTEUS*

Victor ȚÎTEI¹, T. IVANOVA², A. MUNTEAN³ 94

EVALUATION OF THE ABSORPTION ABILITY OF WINTER WHEAT BASED ON ROOT SYSTEM CLUSTERING

Roxana VIDICAN, Vlad STOIAN* and Ioan ROTAR 95

ANALYSIS OF THE THRIPS FAUNA (INSECTA: THYSANOPTERA) ON FLOWERS OF ROSES IN WESTERN PART OF ROMANIA

Ana – Maria VIRTEIU¹, Ioana GROZEA¹, Ramona STEF¹, Alin CARABET¹, Levente MOLNAR¹, Teodora FLORIAN² and Veaceslav MAZARE¹ 96

HOST PLANT SPECIES OF THE CICADA *METCALFA PRUINOSA* IN ROMANIA

Mihai VLAD*, Ioana GROZEA 97

INFLUENCE OF AGRONOMIC PRACTICES ON GRASSLAND OF *AGROSTIS CAPILLARIS L.* – *FESTUCA RUBRA L.* FROM DEALUL CRUCII MEADOW

Zorica VOŞGAN^{1*}, Roxana VIDICAN², Lucia MIHALESCU¹, Monica MARIAN¹, Stela JELEA¹, Oana MARE ROSCA¹, Anca DUMUȚA¹, Susana SFECHIȘ² 98

SECTION 2: ENVIRONMENTAL PROTECTION AND SUSTAINABLE DEVELOPMENT

WILDFIRE IMPACT AND FIRE PARADOX IN A NATURAL AND ENDEMIC *PINUS CANARIENSIS* FOREST STAND

Jose Ramon ARÉVALO¹, A. NARANJO-CIGALA², M. SALAS³, and M. MORENO⁴ 99

ENERGY EFFICIENCY OF BIOGAS-SOLAR POWER PLANT

Pavo BALIČEVIĆ* and Aleksandar LIVAZOVIĆ 100

THE BEHAVIOUR OF *PHASEOLUS VULGARIS* UNDER MICROWAVE ELECTROMAGNETIC RADIATION STRESS IN GREENHOUSE

Claudia BALINT, Ioan OROIAN*, Daniela BORDEA, Bianca BORDEANU, Narcisa MARIAN 101

THE BEHAVIOR OF SOME POTATO MID-EARLY VARIETIES WHEN TREATMENTS WITH SOME UNCONVENTIONAL PRODUCTS ARE PERFORMED (2013-2014)

Ioan BRAŞOVEAN, Ioan OROIAN,* Antonia ODAGIU, Cristian IEDERAN 102

THE INFLUENCE OF CLIMATE CHANGE ISSUES IN PINE TREE FORESTS FROM MUREŞ AREA

Petru BURDUHOS, Ioan OROIAN*, Antonia ODAGIU, Ilie COVRIG 103

CHEMICAL INDICATORS OF WET DEPOSITION AND THEIR IMPACT ON THE SOIL IN MARAMURES COUNTY, NW OF ROMANIA

Claudia BUTEAN^{1*}, Angela MICHNEA², Cristina MIHALI¹, Zoita Marioara BERINDE¹, AnaMaria GAVRA² and Mirela SIMIONESCU² 104

ANTHROPIC PRESSURES EXERTED ON THE BIODIVERSITY OF THE MOUNTAIN AREA IN ROMANIA

Lavinia Alina CĂLUŞERU¹, Luminița COJOCARIU^{1,2} 105

CORRELATIVE MODELS BETWEEN BALATON (A) AND ATRIUM (E) WHEAT VARIETIES, NITROGEN DOSES AND THEIR DIVISION IN SEINI – MARAMURES, 2009-2010

Vasile Marius CĂRĂBĂȚ¹, Mihai BERCA¹, Roxana HOROIAS^{1*}, Cristian Florinel CIOINEAG² 106

ECOLOGICAL RESTORATION OF DEGRADED LANDS IN THE COUNTY OF GALATI

Maria CONTOMAN¹, Alina SIMIONICA² 107

QUANTITATIVE AND QUALITATIVE MONITORING OF IPIDAE OCCURENCE IN PINE TREE FORESTS FROM MUREŞ AREA

Ilie COVRIG, Ioan OROIAN*, Ovidiu CHIOREAN, Vasile CEUCA 108

THE INFLUENCE OF THE LOW FREQUENCY ELECTROMAGNETIC FIELD ON SEED GERMINATION FOR SOME SPECIES OF LEGUMES

Elena Maria DRAGHICI^{1*}, Marian VELCEA¹ and Ioan PLOTOG³ 109

BACTERIOLOGICAL ANALYSIS AND PUBLIC PERCEPTION ABOUT DRINKING WATER OF BOREHOLES IN ARIB (AIN DEFLA, ALGERIA)

Mohand Said HAMAIDI¹, Fella HAMAIDI-CHERGUI¹ and Mohamed BRAHIM ERRAHMANI² 110

EFFECT OF DROUGHT STRESS ON *GLEDITSIA TRIACANTHOS* L. AT EARLY STAGES OF DEVELOPMENT

Salima KEBBAS^{1,2*} and Fatiha AID² 111

THE COMPOSITION OF BENTHIC VERNAL DIATOMS COMMUNITIES ON THE LOWER COURSE OF BEGA RIVER

Anca-Andreea MARIN^{1*}, Benoni LIXANDRU¹, Milca PETROVICI², Adrian SINITEAN², Florica MORARIU¹, Dumitru POPESCU¹ 112

TESTING DIFFERENT CONVENTIONAL AND UNCONVENTIONAL TREATMENT SOLUTIONS IN FIGHTH AGAINST ALTERARIOISIS IN POTATO CROP FROM JUCU, CLUJ AREA

Cristian MĂLINAŞ, Ioan OROIAN*, Ioan BRAŞOVEAN, Andrei FLEŞERIU, Constantin MIHAI-OROIAN 113

IMPROVING ROMANIA'S GREEN COVER BY PLANTING FOREST PROTECTION CURTAINS, IN THE CONTEXT OF CURENT CLIMATE CHANGES

Camelia MĂNESCU^{*}, Ada-Flavia CRISTINA, Teodor MATEOC, Camelia GAVRILESCU, Nicoleta MATEOC-SÎRB 114

ALTERNATIVE APPROACHES FOR DESCRIBING SEMI URBAN AREAS

Steven J. MEEUS^{1,2,*} and Hubert GULINCK² 115

EXPERIMENTAL STUDIES ON THE RADON EXHALATION RATES FROM PLASTERING MORTARS USING RADIM 3A-EMAN DEVICE

Lavinia-Elena MUNTEAN^{1*}, Botond PAPP^{2,3}, Constantin COSMA^{2,3}, Daniela MANEA⁴, Ioana TANASESCU¹ and Dorin-Vasile MOLDOVAN⁵ 116

THE USE OF HONEY BEES TO ASSESS ATMOSPHERIC PARTICULATE MATTER (PM) CONTAMINATION

Ilaria NEGRI^{1*}, Christian MAVRIS², Gennaro DI PRISCO³, Emilio CAPRIO³, Marco PELLECCHIA¹, Antonio DE CRISTOFARO⁴ 117

RISK ASSESSMENT OF CONVENTIONAL AND UNCONVENTIONAL PHYTOSANITARY TREATMENTS AGAINST LATE BLIGHT IN POTATO

Antonia ODAGIU, Ioan OROIAN*, Cristian MĂLINAŞ, Daniela BORDEA 118

NECESSITY, DESIRABILITY AND IMPORTANCE OF ECOLOGICAL AGRICULTURE IN THE CONTEXT OF MEDICINAL PLANTS CULTIVATION

- Vasilica ONOFREI¹, Gabriel-Ciprian TELIBAN¹, Roxana-Alexandrina CLINCIU-RADU¹, Alexandra – Andreea Buburuz², Teodor ROBU¹ 119

FIGHT AGAINST POTATO LATE BLIGHT – A BIOECONOMIC APPROACH

- Adriana OPINCARIU, Ioan OROIAN*, Antonia ODAGIU, Cristian MĂLINAŞ, Cristian IEDERAN, Andrei FLEŞERIU 120

PINE FOREST PROTECTION IN PHYTOSANITARY LEGISLATION

- Ioan OROIAN, Sînziana PAULIUC, Cristian IEDERAN*, Sorin POP 121

RAISING THE LEVEL OF AWARENESS OF LOCAL COMMUNITIES IN ELABORATING THE MANAGEMENT PLAN FOR NATURA 2000 ROSCI SOMESUL RECE SITE

- Marian PROOROCU, Ioan OROIAN, Antonia ODAGIU, Sînziana Ecaterina PAULIUC*, Andreea BÎLC 122

ESTIMATION OF EFFICIENCY OF BIO- AND PHYTOREMEDIATION FOR PESTICIDES CONTAMINATED SOIL

- Inna RASTIMESINA¹, SVETLANA TOLOCICHINA¹, Olga POSTOLACHI^{1*}, Angela CINCILEI², Nina STREAPAN¹, Vera MAMALIGA¹ 123

THE CONSERVATION STATUS OF GRASSLAND HABITATS IDENTIFIED IN SEVERAL PROTECTED AREAS FROM OLTEȚIA NATURA 2000 SITE

- Daniel RĂDUȚOIU 124

LANDSCAPE DETERMINANTS OF FINE-SCALE GENETIC STRUCTURE OF A SMALL PEST RODENT IN A HETEROGENEOUS LANDSCAPE FROM SOUTH AFRICA

- Isa-Rita M. RUSSO¹, Catherine L. SOLE², Mario BARBATO¹, Ullrich VON BRAMANN³ and Michael W. BRUFORD¹ 125

THE AGRICULTURAL VALORISATION OF MUDDY WASTE FROM PURGE WATER

- Marius SABĂU 126

STUDY ON THE EFFICIENCY OF SEPARATING IMPURITIES FROM WASTE WATER BY MEANS OF SERIES MOUNTED TANGENTIAL FILTERS

- Daniela ZÂRNOIANU, Simion POPESCU 127

SECTION 3: FOOD SCIENCE AND TECHNOLOGY

TYPES OF LINKAGES OF DIFFERENT CATIONS IN GRAPEVINE BERRIES OF SOME IMPORTANT VARIETIES OF *VITIS VINIFERA* USED FOR WINEMAKING

- Klaus SCHALLER* and Ruth LEHNART 128

HUMAN MILK OLIGOSACCHARIDES

- Dietmar HALTRICH* 129

ENZYME AND ANTIBODY ENGINEERING FOR AGRICULTURAL APPLICATIONS

- Montarop YAMABHAI* 130

SCALE UP PROCEDURE FOR FERMENTATION AND DOWN STREAM PROCESSING OF PROBIOTIC STRAINS: A CHALLENGE FOR THE INDUSTRY

- Philippe THONART¹, J. DESTAIN¹, A. LEJEUNE¹, F. WEEKERS², P. ANTOINE³, T. El MEJDOUN⁴, S. ZGOULLI⁵, F. DELVIGNE¹ 131

THE INFLUENCE OF YEAST BIODIVERSITY AND GRAPE PROCESSING ON SPONTANEOUS FERMENTATIONS

- Christian von WALLBRUNN^{1*} and Daniel GERHARDS¹ 132

STUDY OF ALGAL COMMUNITIES FROM WATER INTAKE GURGHIU

Elena-Suzana BIRIŞ-DORHOI¹, Laura MOMEU², Maria TOFANĂ^{1*}, Sonia A. SOCACI¹, Anca FARCAŞ¹, Melinda NAGY¹, Cosmina Maria BOGĂTEAN¹ 133

SENSORY ANALYSIS OF A NEW GENERATION OF PROBIOTIC DRINKS WITH FUNCTIONAL GASTROINTESTINAL HEALTH IMPACT

Andrei BORŞA^{1*}, Sevastiţa MUSTE¹, Dan Cristian VODNAR², Liana-Claudia SALANȚĂ² and Lucian CUIBUS² 134

DESIGNING OF THE INNOVATIVE TRAINING MATERIALS IN FOOD SCIENCE EDUCATION

Lavinia BURULEANU^{1*}, Laura Monica GORGIU², Gabriel GORGIU³ and Carmen Leane NICOLESCU¹ 135

TRACEABILITY OF FUNCTIONAL BIOACTIVE COMPOUNDS IN FRESH AND PASTEURIZED MILK, OBTAINED FROM SHEEPS FED WITH ORANGE PULP

Maria Simona CHIS¹, Sevastita MUSTE^{1*}, María Del Mar CAMACHO VIDAL² 136

BIOVALORISATION OF BEER BY ALTERNATIVE FERMENTATION TECHNOLOGY

Teodora Emilia COLDEA, Elena MUDURA^{*}, Carmen SOCACIU, Carmen POP, Floricuţa RANGA, Ancuţa PASCU 137

WARFARIN REDUCED GOLD NANOPARTICLES: CHARACTERISATION, CELLULAR UPTAKE AND CYTOTOXICITY

Cristina COMAN¹, Olivia Dumitriţa RUGINĂ², Loredana Florina LEOPOLD¹, Zoriţa DIACOMEASA¹, Nicolae LEOPOLD³, Maria TOFANĂ¹ and Carmen SOCACIU¹ 138

PHENOLIC COMPOUNDS AND THEIR ANTIOXIDANT ACTIVITY IN PURPLE POTATOES VARIETIES

Zoriţa DIACOMEASA¹, Cristina COMAN¹, Dumitriţa RUGINĂ², Loredana LEOPOLD¹, Oana POP¹, Lucian CUIBUS¹, Carmen SOCACIU^{1*} 139

QUALITY MONITORING OF SOME COMMERCIAL HERBAL TEAS IN ROMANIA

Flavia DUMITRESCU¹, Mona Elena POPA¹, Gelu-Cristian RADE², Mirela CUCU², Gabriel MUSTATEA², Nastasia BELC² 140

COMPARATIVE EVALUATION OF BIOFUNCTIONAL COMPOUNDS CONTENT FROM ROMANIAN AND CHINESE TEA PLANTS

Anca C. FĂRCAŞ¹, Sonia A. SOCACI^{1*}, Maria TOFANĂ¹, Liana Salanță, Ana CUCEU¹, Anamaria POP¹ 141

STUDY REGARDING OBTAINING AND SENSORIAL EVALUATION OF GLUTEN-FREE RICE BASED CAKE WITH QUINOA FLOUR ADDITION

Minodora IOVAN^{1*}, Bogdan RADOI² and Teodor TRASCA³ 142

RAMAN MONITORING OF PEG COATED GOLD NANOPARTICLES INTERNALISATION IN CELLS

Loredana Florina LEOPOLD^{1*}, Zorita Maria DIACOMEASA¹, Cristina COMAN¹, Nicolae LEOPOLD² and Carmen SOCACIU¹ 143

ASSESSMENT OF ANTIFUNGAL ACTIVITY OF LACTIC ACID BACTERIA STRAINS AGAINST BREAD SPOILAGE FUNGUS *ASPERGILLUS OCHRACEUS*

Adrian MATEI^{1*}, Călină Petruţa CORNEA¹, Steliană RODINO^{1,2}, Ovidiu IORDACHE¹, Marian BUTU² 144

PHYSICO-CHEMICAL RESPONSE OF SEVEN IRRIGATED AND NON-IRRIGATED APPLE CULTIVARS TO DIFFERENT STORAGE CONDITIONS

Otilia MICU^{1*}, Emil LUCA¹, Nineta Simona VARGA¹, Felicia BUTUZA-BUMB¹ and Păuniţa Iuliana BOANĂ¹ 145

STUDY ON INFLUENCE OF DIFFERENT TYPES OF MEAT ON THE QUALITY OF MEAT PRODUCTS

Melinda NAGY, Crina MUREŞAN*, Sonia A. SOCACI, Maria TOFANĂ, Anca FARCAŞ,
Suzana E. BIRIŞ 146

EVALUATION OF WINE ACIDS BY FORCED ESTERIFICATION AT PRODUCTS WITH HIGH ALCOHOLIC DEGREE

Marius NICULAUA^{1*}, Bogdan C-tin NECHITA², Cătălin Ioan ZAMFIR², Florin VĂRARU¹,
Georgiana-Diana DUMITRIU¹ and Valeriu V. COTEA² 147

THE EVALUATION OF FOOD SECURITY IN EUROPEAN UNION-27

Özge Can NİYAZ¹ 148

EVALUATION OF ANTIOXIDANT ACTIVITY AND PHENOLIC CONTENT IN DIFFERENT EXTRACTS PREPARED FROM *SALVIA OFFICINALIS L*

ANA-VIORICA POP (CUCIU)¹, MARIA TOFANĂ^{1*}, SONIA A. SOCACI¹, DAN
VÂRBAN², MELINDA NAGY¹, MARIA-DOINIȚA BORȘ¹, SUSANA SFECHIȘ³ 149

CERIUM OXIDE NANOPARTICLES AND THEIR ANTIBACTERIAL EFFECT *IN VITRO*

Oana Lelia POP^{1*}, Amalia MESAROS², Zorița DIACONEASA¹, Dan Cristian VODNAR¹,
Lucian BARBU-TUDORAN³, Lidia MAGERUŞAN⁴, Doru PAMFIL⁵,
Carmen SOCACIU¹ 150

CAROTENOIDS, TOCOPHEROLS AND ANTIOXIDANT ACTIVITY OF LIPOPHILIC EXTRACTS FROM SEA BUCKTHORN BERRIES (*HIPPOPHAE RHAMNOIDES*), APRICOT PULP AND APRICOT KERNEL (*PRUNUS ARMENIACA*)

Elena Andreea POP¹, Zorița M.DIACONEASA¹, Florinela FETEA¹, Andrea BUNEA¹, Francisc
DULF¹, Adela PINTEA¹ and Carmen SOCACIU¹ 151

SENSORIAL AND PHYSICAL-CHEMICAL EVALUATION OF MELANGE FROM PASTEURIZED EGGS

Roxana GAVRIL (RAȚU)¹ and Marius Giurgi USTUROI 152

FOOD SECURITY AND IMPLICATIONS OF INTERNATIONAL TRADE - CONCEPTUAL APPROACHES AND EVIDENCES ACROSS EU

Mirela-Adriana RUSALI¹ 153

INFLUENCE OF THE BROWN MARINE ALGAE ON THE PHYSICOCHEMICAL AND SENSORY CHARACTERISTICS OF THE SAUSAGES

Claudiu-Dan SĂLĂGEAN, Carmen POP* and Mihai CATRINOI 154

ROMANIAN CONSUMERS' WILLINGNESS TO BUY FOODSTUFFS CONTAINING FOOD ADDITIVES: RESULTS OF A CONJOINT STUDY

Viktória SZŰCS¹, Erzsébet SZABÓ¹, Monica TARCEA^{2*} and Diána BÁNÁTI³ 155

BIOCONVERSION OF FRUIT WASTES INTO VALUABLE ORGANIC CHEMICALS

Dan C. VODNAR¹, Oana L. POP¹, Florinela FETEA¹, Floricuta RANGA¹, Francisc DULF², and
Carmen SOCACIU¹ 156

SECTION 4: HORTICULTURE AND FORESTRY

USE OF WILD RELATIVES FOR INCREASING THE GENETIC BASE AND ADAPTATION TO CLIMATE CHANGE OF EGGPLANT

Jaime PROHENS^{1*}, Hemal FONSEKA², Auguste KOUASSI³, Mariola PLAZAS¹, Ramya
FONSEKA⁴, Abou KOUASSI³, Isabel ANDÚJAR¹, Rajakapasha RANIL², Brice KOUASSI³,
Pietro GRAMAZIO¹, Lahiru NIRAN⁵, Ana FITA¹, Tharangani WELEGAMA², Adrián
RODRÍGUEZ-BURRUEZO¹, and Santiago VILANOVA¹ 157

EFFECT OF ORGANIC AND MINERAL FERTILIZATION ON GROWTH AND MYCORRHIZAL COLONIZATION OF PEA CROPS

Dimitrios BILALIS*, Anestis KARKANIS, Foteini ANGELOPOULOU, Andreas ANTONIADIS, Ilias TRAVLOS, Georgia NTATSI, Efstatia LAZARIDI, Dimitrios SAVVAS 158

COMPARATIVE ANALYSES OF PLANT RESPONSES TO ABIOTIC STRESS: AN USEFUL APPROACH TO STUDY STRESS TOLERANCE MECHANISMS

Mohamad AL HASSAN¹, Monica BOSCAIU² and Oscar VICENTE^{1*} 159

DETERMINING THE FUEL CONSUMPTION WHEN USING A HARVESTER-FORWADER SYSTEM TO CLEARCUT A DRIED SPRUCE STAND

Andrei APĂFĂIAN¹, Horatiu MUNTEANU¹ and Alexandru Stelian BORZ^{1*} 160

RESPONSE OF FLORINA APPLE TREES TO FOLIAR APPLICATIONS OF FERTILIZERS

Valerian BALAN*, Sergiu VĂMĂŞESCU and Petru BALAN 161

RESIZING ROAD LAYERS AT MAINTENANCE AND REHABILITATION OF FOREST ROADS

Vasile BOGHIAN 162

RESEARCH ON THE BEHAVIOR OF SOME EGGPLANT ROOTSTOCKS IN GRAFTING PROCESS

Marian BOGOESCU* and Madalina DOLTU 163

RESEARCH ON THE QUALITY OF THREE WHITE WINE VATIETIES IN TRANSYLVANIA, HARVEST OF 2013-2014

Florin-Dumitru BORA^{1*}, Tiberia-Ioana POP¹, Claudiu-Ion BUNEA¹, Anca-Cristina BABEŞ¹, Delia-Elena URCA¹, Ştefania BALEA¹, Daniela POPESCU², Maria COMŞA², Maria ILIESCU², Nastasia POP^{1*} 164

EFFECT OF DIFFERENT GROWTH MEDIA TO THE NUTRIENT CONTENT OF PRIMULA (*PRIMULA OBCONICA*)

Nuray ÇIÇEK ATİKMEN^{1*}, Cihat KÜTÜK², Gökhan ÇAYCI², Abdullah BARAN², H. Hüseyin ÖZAYTEKİN³, Siyami KARACA⁴ 165

STUDIES ON WINE MATURATION USING DIFFERENT METHODS

Lucia Cintia COLIBABA¹, Valeriu V. COTEÀ^{1*}, Ana Maria MOROSANU¹ and Tudose-Sandu-Ville STEFAN¹ 166

EARLINESS CHARACTERISTICS OF TULIPS COLLECTION IN “AL. BORZA” BOTANICAL GARDEN CLUJ-NAPOCA

Mirela Irina CORDEA^{1*} and Angela Doina PUI² 167

TREES, SHRUBS AND FOREST PHYTOCENOSIS AS ECOLOGICAL AND GEOGRAPHICAL INDICATORS

Nicolae DONIȚĂ¹, Dagmar VIȘOIU², Ion CHISĂLIȚĂ² 168

ANALYSIS OF MECHANICAL AND BIOLOGICAL STABILITY OF VARIOUS TREES SPECIES DEPENDING ON LOCATION, AGED AND WIND INTENSITY

Marius FETEA¹ and Florin DOMNITA¹ 169

ASPECTS REGARDING THE *IN VITRO* PROPAGATION OF ‘ROYAL GALA’ APPLE CULTIVAR

Alexandru FIRA, Manuela SIMU and Doina CLAPA* 170

THE EVALUATION OF THE BARK BEETLES POPULATIONS ON SPRUCE LOGGING DEBRIS

Ciprian G. FORA^{1*}, Karl F. LAUER¹, Mihaela M. MOATĂR¹ and Sorin STANCIU² 171

EFFECT OF TWO DIFFERENT WAYS OF CULTIVATION OF BITTER GOURD (<i>MOMORDICA CHARANTIA L.</i>) ON THEIR SEED YIELD AND QUALITY	
Anna GAŁCZYŃSKA ¹⁾ , Z. WEI ¹⁾ , X.Y. ZHANG ¹⁾ , E. KRÓL ²⁾ , Z. KREJPCIO ²⁾ , Roman HOŁUBOWICZ ¹⁾	172
EFFECT OF ORGANIC FERTILIZATION ON ROOT CHARACTERISTICS AND CROP DEVELOPMENT OF TRADITIONAL VARIETY OF <i>VICIA FABA</i>	
Agapi GAVALAKI ¹ , Nikolaos KOUSTAS ¹ , Ioanna KAKABOUKI ² , Dimitrios BILALIS ^{1*} , Ilias TRAVLOS ¹ , Fotini ANGELOPOULOU ¹ , Xenophon KAPPAS ²	173
TROPHIC EVOLUTION OF SOUTHERN GREEN STINK BUGS (<i>NEZARA VIRIDULA L.</i>) IN WESTERN PART OF ROMANIA	
Ioana GROZEA ^{1*} , Ana Maria VIRTEIU ¹ , Ramona STEF ¹ , Alin CARABET ¹ , Levente MOLNAR ¹ , Teodora FLORIAN ² and Mihai VLAD ¹	174
THE STUDY OF A VARIETY OF CABBAGE CULTIVARS CREATED AT SCDL IERNUT	
Minerva HEITZ [*] , Lidia-Ioana CHIPER, Janina-Claudia CĂPUŞAN, AI.-K HEITZ, Elena ŞTEFĂNESCU	175
THE BEHAVIOR FOR SRC WILLOW INGER IN EXPERIMENTAL TRIAL GHILAD, ROMANIA	
Cornelia HERNEA ¹ , Wilhelm HOLLERBACH ² , Danut TRAVA ² , Mihaela CORNEANU ^{1*} ..	176
INCREASING THE GENETIC BASE OF MODERN CULTIVARS OF EGGPLANT OF THE SEMI-LONG BLACK TYPE	
Maria HURTADO, Santiago VILANOVA, Pietro GRAMAZIO, Mariola PLAZAS, Isabel ANDÚJAR, Francisco Javier HERRAIZ, and Jaime PROHENS ^{1*} ..	177
STUDY ON THE INFLUENCE OF WATERING RATE AND THE TYPE OF SUBSTRATE ON THE PRODUCTION OF TOMATOES GROWN IN THE GREENHOUSE IN UNCONVENTIONAL SYSTEM	
Ionuț Ovidiu JERCA ¹ , Sorin Mihai CÎMPEANU ² Elena Maria DRĂGHICI ³	178
INFLUENCE OF PULSED ELECTROMAGNETIC FIELD ON PLANT GROWTH, NUTRIENT ABSORPTION AND YIELD OF DURUM WHEAT	
Nikolaos KATSENIOS ¹ , Victor KAVVADIAS ¹ , Sideris THEOCHAROPOULOS ¹ , Dimitrios BILALIS ^{2*} , Zaharias IOANNOU ¹ , Antonios PAPADOPoulos ¹ and Nektaria LIAKOPOULOU ¹	179
EFFECT OF BIOREGULATORS ON CHLOROPHYLL CONTENT OF ANNUAL POTPLANTS	
Szilvia KISVARGA ^{1*} , Ildikó KOHUT ¹ , Andrea TILLY-MÁNDY ¹	180
PAK CHOY RESPONSE TO SEVERAL FERTILIZATION AND IRRIGATION TREATMENTS IN ECOLOGICAL FARMING SYSTEM	
Enikő LACZI*, Emil LUCA, Adelina DUMITRAŞ, Alexandru APAHIDEAN and Păunița BOANCĂ	181
IN VITRO PROPAGATION OF FRUIT VARIETIES AND ROOTSTOCKS IN EUROPE: AN OVERVIEW ON COMMERCIAL PRODUCTION, RESEARCH AND FUTURE PROSPECTS	
Maurizio LAMBARDI*	182
CLUSTERING DIPILOTAXIS TENUIFOLIA ACCESSIONS BASED ON QUANTITATIVE AND QUALITATIVE TRAITS	
Simona Laura LAZAR ^{1*} , Mihai Lucian LUNG ¹ , Oana CIUZAN ¹ , Mihai LAZAR and Doru PAMFIL	183

ANTHOCYANINS PROFILES OF SOME NATIVE ROMANIAN GRAPES VARIETIES AND EXPLORATORY ANALYSIS BY PRINCIPAL COMPONENT ANALYSIS

Mihai Lucian LUNG^{1*}, Simona Laura LAZAR¹, Oana CIUZAN¹, Nastasia POP¹, Doru PAMFIL¹ and Luca ROLLE² 184

RIBES NIGRUM L. – A VALUABLE SPECIES SUITABLE FOR THE BUCHAREST AREA

Carmen MANOLE^{1*}, Maria PARASCHIV¹, Manuela SIDOROFF¹, Valerica TUDOR² and Luminita TCACENCO¹ 185

RESEARCH REGARDING THE BEHAVIOR OF SOME TOMATO LANDRACES TO CULTIVATION UNDER TUNNEL CONDITIONS

Veronica MAXIM¹, Dănuț Nicolae MĂNIUȚIU^{1*}, Rodica SIMA¹, Aurel MAXIM¹ and Ioan Ovidiu MAXIM¹ 186

VASCULAR PLANTS THAT ARE HOSTS FOR THE PESTS IN THE OTĂȘĂU RIVER BASIN, OLTEANIA, ROMANIA

Ion MITREA, Nicolae Cristian FOTA 187

CONSIDERATIONS REGARDING THE INFLUENCE OF SOME PREFERMENTATIVE TREATMENTS ON COMPOSITIONAL AND ORGANOLEPTIC FEATURES OF FETEASCĂ ALBĂ WINES

Ana- Maria MOROȘANU^{1*}, Cintia COLIBABA¹, Marius NICULAUA², Bogdan C-tin NECHITA¹, Cătălin ZAMFIR¹, Alexandru C. TARTIAN¹ and Valeriu V. COTEA¹ 188

RESEARCH REGARDING THE ASCORBIC ACID OF BROCCOLI DURING SHORT TERM REFRIGERATED STORAGE

Otilia MURARIU 189

EFFECT OF APPLICATION WITH GIBBERELLIN GA₄₊₇ ON RUSSETTING OF “GOLDEN DELICIOUS” APPLES

Ananie PESTEANU 190

THE QUALITY OF CALLUS AT GRAPEVINES GRAFTED CUTTINGS DEPENDING ON THE SUBSTRATE USED IN FORCING

Daniela POPESCU¹, Dan CORBEAN^{2*} and Maria COMSA¹ 191

MANAGING THE YIELD AND QUALITY OF GRAPES BY CALCIUM SUPPLEMENTED ON FOLIAR WAY

Florin SALA^{1*}, Alin DOBREI² 192

PRESERVING GENETIC DIVERSITY OF GRAPEVINES BY CLONAL SELECTION

Joachim SCHMID^{1*}, Frank MANTY¹, Hubert KONRAD¹, Bettina LINDNER¹ and Ernst H. RUEHL¹ 193

NEW POSSIBILITIES OF APPLICATION IN VITICULTURE

Hans-Peter SCHWARZ¹ and Rainer KEICHER¹ 194

COMPARATIVE STUDY OF THE BIOTYPES OF BUSUIOACA DE BOHOTIN VARIETY FROM HUSI VINEYARD

Alexandru C. TARTIAN^{1*}, Cintia COLIBABA¹, Marius NICULAUA², Bogdan C-tin NECHITA¹, Cătălin ZAMFIR¹, Ana- Maria MOROȘANU¹, Valeriu V. COTEA¹ 195

STUDIES ON THE PRESENCE OF THE DEFOLIATOR *EPROCTIS CHRYSOROEA* IN THE FORESTS AREA OF FORESTRY DEPARTMENT MARSMURES

Ioan TĂUT^{1,2}, Vasile ȘIMONCA^{1,2}, Mircea MOLDOVAN² 196

NEW TECHNOLOGIES FOR PATHOGEN *MICROSPHAERA ABBREVIATA* CONTROL

Ioan TĂUT^{1,2}, Vasile ȘIMONCA^{1,2*}, Liviu HOLONEC¹, Ilie COVRIG¹ and Mircea MOLDOVAN² 197

LOLIUM RIGIDUM GAUD. BIOTYPES FROM GREECE WITH RESISTANCE TO GLYPHOSATE AND OTHER HERBICIDES

Ilias TRAVLOS¹, Ioanna TABAXI¹, Dimitrios PAPADIMITRIOU¹, Dimitrios BILALIS¹ and Demosthenis CHACHALIS² 198

EVALUATION OF THE EFFECTS OF AMINOPYRALID+FLORASULAM (LANCELOT 450 WG) ON BROADLEAF WEEDS' CONTROL, YIELD AND QUALITY OF MAIZE

Ilias TRAVLOS^{1*} and Vasilis APOSTOLIDIS² 199

THE FRUIT THAT FACTOR STANDARDIZATION OF FRUIT AND FRUIT BUDS SUBMITTED

Sergiu VĂMĂŞESCU..... 200

EFFECT OF CHLOROCHOLINE CHLORIDE (CCC) ON THE HEIGHT AND INULINE CONTENT OF JERUSALEM ARTICHOKE (*HELIANTHUS TUBEROSUS L.*)

Mikołaj WAWRZYNIAK^{1*}, Artur SZWENGIEL² Marta STELMACH-MARDACH³ and Roman HOŁUBOWICZ¹ 201

COST ANALYSIS OF CONVENTIONAL AND ORGANIC TOMATO (*LYCOPERSICON ESCULENTUM MILL.*) SEEDS PRODUCTION IN POLAND

WOJTASIAK J., Magdalena SZPAKOWSKA, Roman HOŁUBOWICZ 202

PPV-REC IS COMPETITIVE IN PLUM ORCHARDS IN THE PRESENCE OF PPV-D AND DEVELOPS SIMILAR SYMPTOMS

Ioan ZAGRAI^{1*}, Sylvie DALLOT², Gerard LABONNE², Luminița ZAGRAI¹ 203

PREBASIC APPLE PLANT MATERIAL OBTAINED AT BISTRITA

Luminița ZAGRAI^{1*}, Ioan ZAGRAI, Angela FEŞTILĂ 204

SECTION 5: ECONOMICS AND RURAL DEVELOPMENT

FOSTERING SINERGIES BETWEEN ENVIRONMENTAL PRACTISES IN FARMING AND RURAL SUSTAINABILITY – CASE STUDIES FROM BULGARIA

Mariya PENEVA^{1*} 205

THE IMPACT OF SEMI-SUBSISTENCE MEASURE ON THE ROMANIAN SMALL FRUITS AND VEGETABLE FARMS

Cornelia ALBOIU^{1*} 206

SIMPLE BOOKKEEPING VS. DOUBLE ENTRY BOOKKEEPING

Ileana ANDREICA^{1*} 207

STUDENTS PERCEPTION TOWARD A NEW SUSTAINABLE FOOD MASTER PROGRAM

Felix H. ARION¹, Cristina B. POCOL^{1*}, Diana E. DUMITRAŞ¹, Iulia C. MUREŞAN¹, Ionel M. JITEA¹ and Rezhen HARUN² 208

MANAGEMENT OF ACCOMMODATION ACTIVITIES FOR SHORT VACATIONS AND PERIODS IN THE NORTH-EAST DEVELOPMENT REGIONS OF ROMANIA

Lucica ARMANCA¹ and Valentin MIHAI^{1*} 209

MARKETING ORIENTED AND SALES ORIENTED COMPANIES IN THE AGRO-FOOD INDUSTRY

Gabriela CHICIUDEAN^{1*}, Felix ARION¹ and Iulia MUREŞAN¹ 210

THE EVOLUTION OF SOCIAL MOBILITY IN SÎNPAUL VILLAGE

Mihai CUCERZAN^{1*} 211

CHANGES IN TOURISTS' PERCEPTION TOWARDS VISITING BUCEGI NATURAL PARK

Diana Elena DUMITRAŞ¹, Ionel Mugurel JITEA¹ and Manuela Carmen SIMU¹ 212

POST-ACCESSION TRENDS OF THE ROMANIAN INTERNATIONAL MEAT TRADE	
Camelia GAVRILESCU ^{1*}	213
SELF-SUFFICIENCY OF MILK CONSUMPTION IN ROMANIA IN THE CONTEXT OF DOMESTIC SUPPLY RESTRUCTURING – TRENDS AND PROSPECTS	
Mariana GRODEA ^{1*}	214
RESEARCH REGARDING THE CURRENT AGRICULTURAL SITUATION IN THE KURDISTAN REGIONAL GOVERNMENT, IRAQ	
Rezhen HARUN ^{1*}	215
HOUSEHOLDS AND FARMS IN TRANSITION	
Sreten JELIĆ ¹ , Mersida JANDRIĆ ¹ , Branka KALANOVIĆ-BULATOVIĆ ¹ , Bojan DIMITRIJEVIĆ ^{1*} and Andrija DOMAZET ¹	216
AN ANALYSIS OF THE SOCIO-ECONOMIC CHARACTERISTICS OF THE SEMI-SUBSISTENCE FARMS THAT APPLIED FOR RURAL DEVELOPMENT FUNDS IN THE NORTH-WESTERN ROMANIA	
Ionel-Mugurel JITEA ^{1*} , Diana-Elena DUMITRAŞ ¹ , Manuela Carmen SIMU ¹ and Valentin MIHAI ¹	217
SCHOOL CLOSURES AND RURAL DEVELOPMENT	
Zsuzsanna KASSAI ¹ , Cristina-Bianca POCOL ² and Tibor FARKAS ³	218
THE IMPORTANCE OF COMMON GRAZING LANDS FOR THE SUSTAINABLE MANAGEMENT OF NATURA 2000 AREAS IN BULGARIA	
Yanka KAZAKOVA-MATEVA ^{1*}	219
ECOTOURISM: CAN A PRODUCT COMPLY WITH A SUSTAINABLE AND RESPONSIBLE ECONOMIC MODEL AND STILL BE MARKETABLE?	
Eniko M. KOVACS ^{1*}	220
DETERMINANTS OF FAMILY FARMS IN THE REGIONS OF SERBIA	
Nikola LJILJANIC ^{1*} , Snezana JANKOVIC, Zoran RAJIC ² , Vedran TOMIC and Sreten JELIC ²	221
ENTREPRENEURSHIP INTENTION AMONG ROMANIAN RURAL RESIDENTS	
Iulia C. MURESAN ^{1*} , Camelia F. TODORAN ¹ , Felix H. ARION ¹ and Rezhen HARUN ²	222
WOMEN, APICULTURE AND DEVELOPMENT: EVALUATING THE IMPACT OF A BEEKEEPING PROJECT ON RURAL WOMEN'S LIVELIHOODS	
Cristina Bianca POCOL ^{1*} and Molly McDONOUGH ²	223
MANAGEMENT OF AGRO-TOURISTIC RESOURCES WITH VINEYARD SPECIFIC FROM SOUTHERN DOBROGEA	
Marius POPESCU ^{1*}	224
ECONOMIC OPTIMIZATION OF THE FERTILIZATION SYSTEM ON CORN CROPS ON A REPRESENTATIVE SOIL IN THE TRANSYLVANIAN PLAIN	
Andra PORUȚIU ^{1*} , Felix ARION ² , Iulia MUREȘAN ³ , Raluca FĂRCĂȘ ⁴ , Tudor SĂLĂGEAN ⁴ and Lavinia MOLDOVAN ⁵	225
IMPACT OF ARABLE LAND SIZE ON TRACTOR USE SCALE	
Martin TAKALIĆ ^{1*} and Sven BLAŽIČEVIĆ ²	226
FARMERS PERCEPTIONS ABOUT ORGANIC AGRICULTURE	
Camelia F. TODORAN ¹ , Iulia C. MURESAN ^{1*} , Rezhen HARUN ² , Gabriela O. CHICIUDEAN ¹ and Andra PORUTIU ¹	227
DIVERSITY OF SMALL FAMILY FARMS IN CROATIAN RURAL ECONOMY	
Snježana TOLIĆ ^{1*} , Lidija MAUROVIĆ KOŠČAK ¹ and Bojana MARKOTIĆ KRSTINIĆ ² ...	228

THE INFANT MORTALITY RATE IN OECD COUNTRIES – DETERMINANTS AND IMPLICATIONS

Viorela-Ligia VĂIDEAN^{1*} and Marina FERENTĂ-PIPĂȘ¹ 229

SECTION 6-7: ANIMAL SCIENCE AND BIOTECHNOLOGIES

ELEMENTAL AND ISOTOPIC COMPOSITION OF DIFFERENT HARD PARTS OF FRESHWATER FISH: BACKGROUND AND APPLICATIONS

Andreas ZITEK^{1*}, Johanna IRRGEHER¹⁺, Leo KIRCHMAIER¹, Johannes OEHM²,
Anastassiya TCHAIKOVSKY¹, Anika RETZMANN¹, Thomas PROHASKA¹ 230

TRACEABILITY OF FOOD AND AGRICULTURAL PRODUCTS

Thomas PROHASKA¹, Johanna IRRGEHER^{1*} and Andreas ZITEK¹ 231

INSECTS AS AN ALTERNATIVE SOURCE OF PROTEIN FOR ANIMAL FEEDING: A LITERATURE REVIEW

Vladimír VRABEC^{1*} and Martin KULMA¹ 232

BREEDING STRATEGIES IN HUNGARIAN SIMMENTAL BREED

István KOMLÓSI¹, Balázs HUTH² 233

NITROGEN DYNAMICS IN AN INTEGRATED HYBRID STURGEON AND OREGANO AQUAPONIC SYSTEM, USING THE NUTRIENT FILM TECHNIQUE AND DIFFERENT CROP DENSITIES

Alexandru-Cristian BANDI^{1*}, Victor CRISTEA¹, Lucian GEORGESCU², Lorena DEDIU¹, Paul LUPOAE³, Stefan Mihai PETREA¹ and Săndița PLĂCINTĂ¹ 234

POLYSACCHARIDE STORAGE MYOPATHY (PSSM) – GENETICALLY DETERMINED DISEASE IN HORSES

Flavius BANYAI^{1*}, Augustin VLAIC¹ 235

A COMPARATIVE STUDY OF THE EFFECT OF ORGANIC AND MINERAL FERTILIZERS ON THE FLORISTIC COMPOSITION ON PERMANENT GRASSLAND IN PETROVA, MARAMUREŞ

Adela L. BOTIȘ^{1*}, gheorghe MIHAI¹, Nicușor SIMA¹, Doru CRISTE¹, Iulia MEDREA¹, Bogdan FĂGĂDAR¹ 236

STUDY OF ANTI-INFLAMMATORY AND ANTIMICROBIAL ACTIVITY OF AQUEOUS AND FLAVONOID EXTRACTS AND ESSENTIAL OIL FROM THE LEAVES OF *INULA VIScosa*

Hamida Saida CHERIF,^{1*} Saidi, FAIROUZ¹, Rouibi, ABDELHAK¹, Gourai, HINDA¹ 237

ANALYSIS OF THE MORPHOPRODUCTIVE CAPACITIES OF A SHEEP POPULATION OF ȚIGAIE BREED

Vasile CIGHI¹, Teofil OROIAN¹, Dorel DRONCA² 238

DANUBE CRAYFISH (*ASTACUS LEPTODACTYLUS*, ESCHSCHOLTZ, 1823) FROM ȚAGA MARE LAKE – SIZE, AGE AND SEX POPULATION STRUCTURE

Daniel COCAN¹, Iulius ROTAR¹, Vioara MIREȘAN^{1*} 239

THE ROLE OF TWO CODONS (136, 171) FROM PRN-P GENE IN RELATIONSHIP WITH RESISTANCE/SUSCEPTIBILITY TO SCRAPIE

Radu CONSTANTINESCU¹, Viorica COȘIER¹, Augustin VLAIC^{1*}, Daniel COCAN¹, Vioara MIREȘAN¹ 240

ASSESSMENT OF INDUSTRIAL EFFLUENT QUALITY AND THEIR POSSIBLE IMPACT ON SURFACE WATER

Florina COPACIU¹, Carmen ROBA^{2*}, Ocsana OPRIȘ³, Andrea BUNEA¹ and Vioara MIREȘAN¹ 241

CURRENT ASPECTS CONCERNING SUINA BREEDING IN THE MOUNTAIN ZONE OF CLUJ COUNTY

Ilie CORNOIU*, Andrei S.C. BAN, Ionel TOADER and Mirela E. CADAR 242
NEW MTCYB HAPLOTYPES IN ROMANIAN BUFFALO

Cristian-Ovidiu COROIAN¹, Aurelia COROIAN^{1*}, Vioara MIREŞAN^{1*}, Mihai ŞUTEU¹, Călin LAȚIU¹, Camelia RĂDUCU¹ 243

MAJOR GENETIC DETERMINISM OF TENDERNESS OF SHEEP MEAT

Viorica COŞIER¹, Vioara MIREŞAN¹, Bogdan VLAIC¹, Vasile CIGHI¹, Radu CONSTANTINESCU^{1*} 244

THE ASSESSMENT OF DEER (*CERVUS ELAPHUS*) TROPHIES

Marius COTTA¹, Gelu Rareş OROIAN², Teofil OROIAN^{1*} 245

CHARACTERIZATION OF MICROORGANISMS ISOLATED FROM POLLUTED SOIL WITH PETROLEUM HYDROCARBONS

Adriana CRISTE^{1*}, Nicodim FIT², Marius ZĂHAN¹, Monica NISTE³, Mihaela GIUBURUNCĂ¹ 246

RESTORING THE ECOLOGICAL BALANCE OF A PERMANENT GRASSLAND THROUGH DIFFERENT FERTILIZATION SYSTEMS IN PETROVA ECOSYSTEM, MARAMUREŞ COUNTY NOTE 1: THE EVOLUTION OF FORAGE PRODUCTION

Doru CRISTE¹, gheorghe MIHAI¹, Nicușor SIMA^{1*}, Adela BOTIŞ¹, Iulia MEDREA¹, Bogdan FĂGĂDAR¹ 247

GLOBAL SERICULTURE – A TOOL FOR REGIONAL BIOECONOMIC DEVELOPMENT (A REVIEW)

Daniel S. DEZMIREAN^{1*}, Liviu Al. MĂRGHITAS¹, Ioan PASCA¹, Silvia PATRUICA², Georgeta DINITA³, Horatiu DEZMIREAN¹, Otilia BOBIS¹, Rodica MĂRGĂOAN¹, Claudia PAŞCA¹, Carmen MURESAN¹, Bogdan GHERMAN¹, Anton NAGY¹, Victorita BONTA¹ 248

THE TROPHICITY IMPROVEMENT OF CERTAIN *NARDUS STRICTA* MOUNTAIN MEADOWS IN THE APUSENI MOUNTAINS

Bogdan Ionuț FĂGĂDAR, Gheorghe MIHAI, Nicușor SIMA*, Adela Lăcrimioara BOTIŞ, Doru Cristian CRISTE, Iulia PLEŞA 249

PHENOTYPIC CHARACTERIZATION OF THE WILD BOAR "*SUS SCROFA FERUS*" POPULATION IN TRANSYLVANIA

Voichița Ana Maria GAVRILĂ¹, Crina Elena STRUGARIU¹, Teofil OROIAN^{1*} 250

CORRELATIONS BETWEEN SOME PARAMETERS OF RAW AND STORED SEMEN IN BOAR

Iulian IBĂNESCU*, Petru ROŞCA, Ioana SFARTZ, Ioana CRIVEI and Dan DRUGOCIU .. 251

CONFORMATION FEATURES OF RAINBOW TROUT (*ONCORHYNCHUS MYKISS*) BREEDERS FROM VALEA BISTRİŞORII TROUT FARM

Andrada IHUȚ, Vioara MIREŞAN*, Camelia RĂDUCU, Viorica COŞIER, Radu CONSTANTINESCU, Luiza ANDRONIE, Călin LAȚIU 252

REPRODUCTIVE INDICES OF RAINBOW TROUT (*ONCORHYNCHUS MYKISS*) FEMALES FROM VALEA BISTRİŞORII TROUT FARM

Andrada IHUȚ, Vioara MIREŞAN*, Daniel Ioan COCAN, Camelia RĂDUCU, Viorica COŞIER, Călin LAȚIU, Denisa POP 253

BIOINFORMATICS ANALYSIS AND DATABASES USEFUL IN METABOLOMICS DATA PROCESSING

Andrei G. LAZĂR¹, Florina ROMANCIUC¹ and Carmen SOCACIU^{1,2} 254

FAST LC-MS ANALYTICAL METHOD TO DETERMINE THE PROFILE OF FREE AMINO ACIDS IN HIVE PRODUCTS (HONEY, BEE POLLEN AND ROYAL JELLY)	
Liviu Al. MĂRGHITAŞ, Victorita BONTA [*] , Daniel S. DEZMIREAN, Iulia ZACHARIAS, Otilia BOBIŞ.....	255
THE INFLUENCE OF COMBINED ADDITION OF FEED ADDITIVES (SEL-PLEX+BIO-MOS AND SEL-PLEX+ACTIGEN) IN LAYING QUAILS FEEDS ON GROWTH PERFORMANCES AND EGG QUALITY	
Teodor MĂLDĂRĂŞANU ^{1*} , Aurel ŞARA ¹ , Mihai BENTEA ¹	256
METABOLOMIC SIGNATURE OF PROSTATE ADENOCARCINOMA AND BENIGN PROSTATIC HYPERPLASIA BY LC-QTOF (ESI +) MS METHOD OF SERUM	
Ramona Maria MAXIM ¹ , Raluca Maria POP ² , Carmen SOCACIU ^{1,2}	257
INFLUENCE OF TROLOX AND QUERCETIN COMBINATIONS ON HUMAN OVARIAN CANCER CELL LINE A2780 AND HUMAN BREAST CANCER CELL LINE T47D-KBLUC	
Ileana MICLEA ^{1*} , Vanda FUSS ¹ , Marius ZĂHAN ¹ , Delia ORLOVSCHI ¹ and Vasile MICLEA ¹	258
INFLUENCE OF COLLECTION FREQUENCY ON THE QUALITY OF EJACULATES FROM LARGE WHITE AND PIETRAIN BOARS	
Vasile MICLEA ^{1*} , Ilona GYONGY ² , Ileana MICLEA ¹ , Marius ZĂHAN ¹	259
THE EFFECT OF REPLACING SOYBEAN MEAL WITH LUPINE SEED ON GROWTH PERFORMANCE AND FATTY ACIDS PROFILE OF MEAT IN BROILER DIET	
Daniel MIERLITA	260
ANALYSIS OF CATTLE FARMING SYSTEMS AND PRODUCTION STRATEGIES OF DAIRY FARMERS IN ALGERIAN SEMI ARID REGION	
Charef-Eddine MOUFFOK ^{1*} , Lounis SEMARA ² and Farida BELKASMI ²	261
QUALITY PARAMETERS FOR COMMERCIAL ROYAL JELLY	
Carmen Ioana MUREŞAN ^{1*} , Liviu Alexandru MĂRGHITAŞ ¹ , Daniel Severus DEZMIREAN ¹ , Otilia BOBIŞ ¹ , Victoriţa BONTA ¹ , Iulia ZACHARIAS ¹ , Rodica MĂRGĂOAN ¹ and Claudia PAŞCA ¹	262
ETHOLOGICAL ASSESSMENT OF CALVES' WELFARE ACCORDING TO WEANING METHOD	
Radu I. NEAMT ^{1,2*)} , Stelian ACATINCĂI ²⁾ , Daniela E. ILIE ¹⁾ , Ludovic T. CZISZTER ²⁾	263
SOME ASPECTS OF THE INCIDENCE AND INFESTATION LEVEL OF PARASITISM IN CIPRINIDAE POSTODIPLOSTOMOSIS	
Octavian NEGREA ¹ , Vioara MIREŞAN ¹ , Camelia RĂDUCU ¹ , Grigore ONACIU ¹ , Octavia NEGREA ¹ , Călin LAȚIU ¹ , Daniel COCAN ^{1*}	264
STUDY ON THE INCIDENCE AND INTENSITY OF PARASITISM, IN DYNAMICS, OF IXODID TICKS FROM CATTLE RAISED IN HOUSEHOLD SYSTEMS	
Octavian NEGREA ¹ , Vioara MIREŞAN ^{1*} , Camelia RĂDUCU ¹ , Grigore ONACIU ¹ , Zamfir MARCHIŞ ¹ , Călin LAȚIU ¹ , Daniel COCAN ¹	265
APPRECIATION OF THE MAMMARY GLAND HEALTH STATUS BASED ON THE QUALITY TRAITS OF MILK OBTAINED FROM FRIESIAN - BLACK SPOTTED BREED	
Grigore ONACIU ^{1*} , Eugen JURCO ¹	266
THE TOTAL CONTENT OF POLYPHENOLS AND ANTIOXIDANT ACTIVITY IN MELLIFEROUS PLANTS	
Claudia PAŞCA ¹ , Liviu Al. MĂRGHITAŞ ¹ , Otilia BOBIŞ ^{1*} , Daniel S. DEZMIREAN ¹ , Rodica MĂRGĂOAN ¹ , Carmen MUREŞAN ¹	267

STUDIES REGARDING THE YIELD OF SOME COMPLEX MIXTURES OF PERENNIAL FORAGE PLANTS UNDER THE ECOLOGICAL CONDITIONS OF COJOCNA, THE TRANSYLVANIAN PLAIN

Iulia-Manuela PLESA (MEDREA)¹, Gheorghe MIHAI¹, Nicusor SIMA^{1*}, Rodica SIMA¹, Dorin PLESA¹, Doru CRISTE¹, Adela BOTIS¹, Bogdan FAGADAR¹ 268

THE DEVELOPMENT OF A CANINE PARA-AGILITY PROGRAMME: BEHAVIOURAL AND PHYSIOLOGICAL EFFECTS ON AUTISTIC CHILDREN AND ON THE THERAPY DOGS

Denisa POP^{1,2}, Alina S. RUSU^{2*} and Vioara MIREŞAN^{1*} 269

POSSIBILITIES FOR INTENSIVE FARMING OF CHUB *SQUALIUS CEPHALUS*, LINNAEUS 1758 (ACTINOPTERYGII: CYPRINIDAE), USING LIVE FOOD

Florentina POPESCU¹, Călin LAȚIU¹, Daniel COCAN¹, Vioara MIREŞAN^{1*} 270

ENTREPRENEURIAL AND MARKET ORIENTATION IN BEEKEEPING ENTERPRISES

Anca POPOVICI^{1*}, Liviu MĂRGHITAȘ¹, Daniel DEZMIREAN¹, Marioara ILEA² 271

STUDIES ON THE ANTIBACTERIAL ACTIVITY OF *HUMULUS LUPULUS* EXTRACTS

Steliană RODINO^{1,2}, Alina BUTU^{2,*}, Ovidiu Iordache¹, Georgeta FIDLER^{1,2}, Adrian Matei¹, Marian BUTU², Petruța Calina CORNEA¹ 272

METABOLIC PROFILE OF URINE AMINO ACIDS IN WOMEN, AS A POSSIBLE EARLY DIAGNOSIS OF BREAST CANCER

Florina ROMANCIUC¹ and Carmen SOCACIU^{1,2} 273

TOXICOLOGICAL TESTS OF TUMOLIT AND ARTEMISININ PRODUCTS ON LABORATORY MICE AND RATS

Crina Elena STRUGARIU¹, Anca Alexandra STUPARU¹, Voichita Maria GAVRILA¹, Teofil OROIAN^{1*} 274

PHARMACEUTICALS AND DIETARY SUPPLEMENTS EXTRACTED FROM MARE'S MILK-A REVIEW

Anca Alexandra STUPARU¹, Crina Elena STRUGARIU¹, Teofil OROIAN^{1*} 275

CYTOTOXIC EFFECT OF CHITOSAN-GOLD NANOPARTICLES ON TWO CELL LINE CULTURE

Marius ZĂHAN^{1*}, Ana-Maria MUȚOIU¹, Liliana OLENIC², Illeana MICLEA¹, Adriana CRISTE¹ and Vasile MICLEA¹ 276

SECTION 8: VETERINARY MEDICINE - FUNDAMENTAL AND PRECLINICAL SCIENCES

BARTONELLOSIS IN PETS, RODENTS AND HUMANS

Shimon HARRUS* 277

GAP JUNCTION INTERCELLULAR COMMUNICATION AND CARCINOGENESIS IN CANINE MAMMARY TUMORS

Brunella RESTUCCI*, Paola MAIOLINO, Manuela MARTANO 278

EQUINE INFERTILITY: GENETIC IMPLICATIONS AND THEIR DETECTION BY MOLECULAR METHODOLOGIES

M. MORENO MILLÁN*, G. ANAYA CALVO-RUBIO and S DEMYDA PEYRÁS 279

COMPARATIVE DATA CONCERNING THE INCIDENCE OF CANCER IN DOGS IN A PERIOD OF TEN YEARS IN ATHENS (GREECE) AND CLUJ-NAPOCA (ROMANIA)

Adrian Florin GAL^{*}, Anna ANDRIOPOLOU, Viorel MICLĂUȘ, Flaviu TĂBĂRAN, Marian TAULESCU, Andras NAGY, Roxana CORA, Raluca VIDRIGHINESCU, Cornel CĂTOI ... 280

IMMUNOHISTOCHEMICAL STUDY OF THE INTESTINAL STROMAL TUMORS IN DOGS - 7 CASES AND REVIEW OF THE LITERATURE

Alexandru-Flaviu TĂBĂRAN*, Andras Laszlo NAGY, Alexandra TĂBĂRAN, Marian TAULESCU, Adrian GAL, Marian MIHAIU, Cornel CĂTOI 281

EPIDEMIOLOGICAL DATA CONCERNING CANINE LYMPHOMA IN A PERIOD OF TEN YEARS (2005-2014), IN CLUJ-NAPOCA, ROMANIA

Roxana CORA*, Adrian Florin GAL, Flaviu TĂBĂRAN, Marian TAULESCU, Andras NAGY, Raluca VIDRIGHINESCU, Cornel CĂTOI 282

HEPATIC FIBROSIS ASSESSMENT USING FRACTAL ANALYSIS AS A HISTOLOGICAL GRADING METHOD

Claudiu GAL, Liviu GAIȚĂ, Claudia CONSTANTINESCU, Livia DUMITRESCU, Manuella MILITARU 283

FINE NEEDLE ASPIRATION CYTOLOGY (FNAC) OF NEOPLASMS IN DOGS AND CATS, WITH EMPHASIS ON DIFFERENTIAL DIAGNOSIS - A RETROSPECTIVE STUDY

Geta PAVEL¹, Razvan MĂLĂNCUȘ^{1*} and Mihai CONDREA¹ 284

DISCONTINUOUS ELASTIC LAMINE IN THE INTERNAL ILIAC ARTERY IN LAMB

Vasile RUS¹, Flavia RUXANDA¹, Cristian RAȚIU², Adrian GAL^{1*}, Viorel MICLĂUȘ¹ 285

CERVICAL CARDIAC ECTOPIA IN CATTLE – A CASE REPORT

Dana Liana PUSTA¹, Rodica SOBOLU², Adela BODEA³, Alexandra TĂBĂRAN¹, Pompei BOLFĂ¹, Ioan PAȘCA¹, Liviu BOGDAN¹ 286

QUANTITATIVE ASSESSMENT OF THE ELASTIC COMPONENT IN TUNICA ADVENTITIA OF SOME ARTERIES IN LAMB

Dalma CSIBI¹, Flavia RUXANDA¹, Vasile RUS¹, Cristian MARTONOS¹, Viorel MICLĂUȘ^{1*}, Aurel DAMIAN¹ 287

VENOUS VASCULAR SYSTEM OF THE MAMMARY GLAND IN THE BUFFALO COW - MORPHOLOGICAL ASPECTS -

Aurel DAMIAN, Antonia SOCACIU, Ioana CHIRILEAN, Florin STAN, Alexandru GUDEA, Cristian DEZDROBITU, Flaviu TUNS, Cristian MARTONOS, Melania CRIȘAN* and Irina IRIMESCU 288

LYMPHATIC DRAINAGE OF THE CRANIAL THORACIC MAMMARY GLAND IN THE DOMESTIC CAT

Cristian DEZDROBITU^{1*}, Ionel PAPUC², Melania CRIȘAN¹, Irina IRIMESCU¹, Alexandru GUDEA¹, Ioana DUMITRU¹, Cristian MARTONOS¹ and Aurel DAMIAN¹ 289

ANATOMICAL PARTICULARITIES OF MALE REPRODUCTIVE SYSTEM OF GUINEA PIGS (*CAVIA PORCELLUS*)

Florin STAN 290

GROSS AND MICROSCOPIC ANATOMY OF THE OLFACTORY BULBS IN THE CHINCHILLA (*CHINCHILLA LANIGERA*)

Irina IRIMESCU^{1*}, Pompei F. BOLFĂ^{1,2}, Melania I. CRIȘAN¹, Cristian C. DEZDROBITU¹, Aurel DAMIAN¹ 291

OBSERVATIONS REGARDING THE STRUCTURE OF THE MAJOR SALIVARY GLANDS IN CHINCHILLA

Bianca MATOSZ, Aurel DAMIAN, Vasile RUS*, Cristian MARTONOS, Adrian GAL, Flavia RUXANDA, Viorel MICLĂUȘ 292

COMPARATIVE STUDY OF NON-IONIC CONTRAST AGENTS OPTIRAY 350 AND ULTRAVIST 370 IN MYELOGRAPHY IN DOGS

Radu LĂCĂTUȘ¹, Robert Cristian PURDOIU^{1*}, Filip ARDELEAN², Illeana MATEI², Maximilian MUNTEAN³, Ionel PAPUC¹ 293

ENDOCRINE AND BEHAVIOURAL RESPONSE OF DOG IN STRESS SITUATIONS	
Ionel PAPUC, Robert Cristian PURDOIU*, Radu LĂCĂTUŞ, Natalia ȚURCANU.....	294
DOG BEHAVIOUR ASSESSMENT	
Timea Andrea KOCIS, Astrid GROSZLER, Ioan ȚIBRU, Cristian LAZARESCU	295
RESISTANCE PHENOTYPES OF <i>PSEUDOMONAS AERUGINOSA</i> STRAINS OF HUMAN ORIGIN IN B – LACTAMASES	
Oana – Alexandra CIOCAN ^{1*} , Mihai CARP – CĂRARE ¹ , Cătălin CARP – CĂRARE ¹ , Andreea – Paula Cozma ¹ , Eleonora GUGUIANU ¹ , Cristina RÎMBU, Elena Petruș ² , Carmen - Valentina PANZARU ³	296
STUDY ON BACTERIAL FLORA ISOLATED FROM BIRDS OF PREY OF THE SPECIES <i>ASIO OTUS</i> AND <i>STRIX ALUCO</i>	
Nicodim Iosif FITĂ*, Cosmin MUREŞAN, Flore CHIRILĂ, Adriana CRISTE and George NADĂŞ	297
THE EFFECT OF IODINE BASED PRODUCTS ON UNICELLULAR ALGAE FROM GENUS <i>PROTOTHECA</i>	
Sorin RĂPUNTEAN*, Gheorghe RĂPUNTEAN, Flore CHIRILĂ, Nicodim Iosif FITĂ, George Cosmin NADĂŞ	298
STUDIES REGARDING THE BACTERIAL SKIN CARRIAGE OF IXODIDAE TICKS	
Flore CHIRILĂ*, Nicodim FITĂ, George Cosmin NADĂŞ, Sorin RĂPUNTEAN, Cosmina BOUARI, Octavian NEGREA, Cristian MAGDAŞ, Zamfir MARCHIŞ.....	299
ASSESSMENT OF THE ANTIMICROBIAL EFFECT OF NON-THERMAL PLASMA ACTIVATED WATER AGAINST COAGULASE-POSITIVE STAPHYLOCOCCI	
Irina LIPOVAN ¹ , Andra Cristina BOSTĂNARU ¹ , Valentin NĂSTASĂ ¹ , Eugen HNATIUC ² , Vasile VULPE ¹ and Mihai MAREŞ ¹	300
THE PREVALENCE OF ESBL-PRODUCING STRAINS OF <i>E. COLI</i> AND <i>K. PNEUMONIAE</i>, ISOLATED FROM PETS TREATED WITH ANTIBIOTICS – PRELIMINARY REMARKS	
Andreea COZMA *, Mihai CARP – CĂRARE, Cătălin CARP – CĂRARE, Daniela POREA, Eleonora GUGUIANU, Cristina RÎMBU, Mihai MAREŞ	301
DETERMINING THE CALCIUM AND MAGNESIUM CONTENT GIVEN BY A NATURAL BRINE IN SOME DAIRY PRODUCTS	
Rodica SOMEŞAN, Ildikó BARABÁSI, Laurenț OGNEAN*	302
EFFECTS OF PROBIOTICS, PREBIOTICS AND SIMBIOTICS ON SOME HEMATOLOGICAL AND MICROBIOLOGICAL PARAMETERS IN LABORATORY MICE	
Cristina ȘTEFĂNUȚ*, Laura MITREA and Laurenț OGNEAN	303
COMPARATIVE STUDY OF ANTIOXIDANT ACTIVITY IN FRESH AND PASTEURIZED GOAT MILK	
Sanda ANDREI ^{1*} , Andrea BUNEA ¹ , Adela PINTEA ¹ , Sorana MATEI ¹ , Ana Maria COZMA ²	304
MEDICINAL PLANTS USED FOR TEA - MYCOTOXIC AND MYCOTOXICOLOGICAL POTENTIAL	
Sorana MATEI, Andrei SZAKACS, Adrian MACRI*	305
HEMATOLOGICAL PROFILE IN MICE TREATED WITH INCREASING DOSES OF PYRANTEL AND PRAZIQUANTEL	
Alexandra ARION ¹ , Ferenc NAGY ² , Iulia BALACI ¹ , Ildikó BARABÁSI ¹ , Andreea OPINCARIU, Andrei-Nicolae MOLDOVAN and Laurenț OGNEAN ¹	306

THE IMPACT OF PRE AND PROBIOTIC ON GROWING PERFORMANCE IN ROSS 708 BROILER CHICKENS

Andrei Radu SZAKACS*, Sorana MATEI, Laura ȘTEFĂNUȚ, Reka SIMCSAK and Adrian MACRI 307

EVALUATION OF ISOFLURANE AND SEVOFLURANE INFLUENCE ON LIVER

Flavia RUXANDA¹, Viorel MICLĂUȘ^{1*}, Vasile RUS¹, Adrian GAL¹, Cristian RATIU² and Liviu OANA¹ 308

SIMULATION AND MEASUREMENT OF AIR MOVEMENT INSIDE A STANDARD VETERINARY OPERATING ROOM PRODUCED BY A DOUBLE-EQUAL STRENGTH DIFFUSER

Florin DOMNITA^{1*}, Marius FETEA¹ and Peter KAPALO² 309

WILD BOAR HEPATITIS E SEROPREVALENCE IN HUNTING FUNDS FROM BUZĂU AND GALAȚI COUNTY

Daniela POREA¹, Adriana ANITA¹, Anca PASLARU¹ and Gheorghe SAVUTA¹ 310

WEST NILE VIRUS SEROSURVEILLANCE IN WILD BOARS FROM THE EAST OF ROMANIA

Anca PÂSLARU, Daniela POREA, Gheorghe SAVUTA and Luanda OŞLOBANU 311

RELEVANCE AND LIMITATIONS OF THE IMAGING DIAGNOSIS IN NEUROLOGICAL DISORDERS IN DOG

Nicolae COLDEA and Ionel PAPUC 312

THE INFLUENCE OF NATURAL VITAMIN C ON BROILER CHICKENS HEMATOLOGICAL AND ECONOMICAL PARAMETERS

Laura CĂTANĂ, Cristina STEFANUȚ, R. CĂTANĂ, Anca CHEREJI, M. CERNEA 313

PHYLOGENETIC ANALYSIS OF CORONAVIRUSES IDENTIFIED IN MOLDAVIA CATS

Cristina HORHOGEA*, Ivona LAIU, Cristina RÎMBU and Carmen CREȚU 314

PROTECTIVE EFFECT OF *ROSMARINUS OFFICINALIS* ETHANOLIC EXTRACT AGAINST CCL₄-INDUCED LIVER DAMAGE IN RATS

Ioana BEDECEAN^{1*}, Bogdan SEVASTRE¹, Raluca VIDRIGHINESCU¹, Andras NAGY¹

Roxana L. STAN², Daniela BENEDEC², Daniela HANGANU² and Ioan MARCUS¹ 315

ULTRASONOGRAPHIC ASPECT OF COELOMIC ORGANS IN BOID SNAKES

Robert Cristian PURDOIU^{1*}, Lucia BEL², Radu LĂCĂTUȘ¹, Ionel PAPUC¹ 316

EVALUATION OF THE ANTI-INFLAMMATORY, ANTISEPTIC ESSENTIAL OILS OF PLANTAGO LANCEOLATA, LAURUS NOBILIS AND PELARGONIUM GRAVEOLENS 'PLANTAIN', 'BAY' AND 'GERANIUM ROSAT'

R. MOHAMED SAID¹, R. MOUSSERATI, S. OUAKEDI 317

SECTION 9: VETERINARY MEDICINE - CLINICAL SCIENCES

EFFECT OF OXIDATIVE STRESS AND ANTIOXIDANTS ON MAMMALIAN SEMEN FUNCTIONS

Mustafa BUCAK^{1*}, Mihai CENARIU² 318

SUBTOTAL VAGINECTOMY AS A TREATMENT FOR VAGINAL TUMOURS IN TWO BITCHES

Cornel IGNA^{1*}, Daniel BUMB¹, Adelina PROTEASA¹, Roxana DASCALU¹ and Larisa SCHUSZLER¹, Diana BREZOVAR¹ 319

REPRODUCTIVE PROBLEMS IN COMMERCIAL PIG FARMS

Dragan ROGOŽARSKI¹, Jovan BOJKOVSKI² 320

DISTRIBUTION OF ANTISEPTIC RESISTANCE GENES IN STAPHYLOCOCCI FROM BOVINE AND GOAT MASTITIS

Yasar ERGUN^{1*}, Zafer CANTEKIN², Kemal GURTURK³, Hasan SOLMAZ⁴, İsmail Hakkı EKİN³ and Dilek OZTURK⁵ 321

MASTECTOMY AS A RADICAL TREATMENT OF CHRONIC SUPPURATIVE MASTITIS ON A SPECIFIC GOAT BREED (ALBĂ DE BANAT) - CASE REPORT

Tiberiu CONSTANTIN, Manuela PASCAL and Dorin TOGOE 322

PRELIMINARY REMARKS IN HORMONAL TREATMENTS EFFECTS ON REPRODUCTION PERIOD IN COWS

Ioana Cristina CRIVEI¹, Elena RUGINOSU², S.I. BORŞ², D. L. DASCĂLU², P. ROŞCA¹, D. DRUGOCIU¹ 323

DYSGERMINOMA, PYOMETRA OF THE STUMP AND MAMMARY CARCINOMA IN A DOG WITH OVARIAN REMNANT SYNDROME-CASE STUDY

Ioana SFARTZ, Petru ROŞCA, Iulian IBĂNESCU, Ioana CRIVEI, Dan DRUGOCIU 324

EFFECT OF CULTURE MEDIA ON MARE OOCYTES MATURATION

Hussam ARYAN¹, Ioan GROZA², Iancu MORAR^{2*}, Liviu BOGDAN^{2*}, Anamaria PETREAN^{2*}, Omar MARDENLİ^{2*} 325

EQUINE EMBRYO SEXING - A CASE STUDY OF ITS APPLICABILITY IN A DEVELOPING COUNTRY (ROMANIA)

Melania I. CRIŞAN, Iancu A. MORAR^{*}, Mihai CENARIU, Aurel DAMIAN, Cristian CRECAN, Emoke PALL, Cosmin PEŞTEAN and Ioan S. GROZA 326

INFLUENCE OF HEPATOPROTECTIVE ON THE REDUCTION OF NEGATIVE EFFECTS OF NATURALLY CONTAMINATED FOOD IN BROILERS

Teodora VASILJEVIĆ^{1*}, Jasna BOŠNJAK¹, Mihajlo RADIVOJEVIĆ², Marko VASILJEVIĆ¹ 327

CYTOTOXIC POTENTIAL OF ANTIOXIDANTS FROM TOMATOES ON TUMORAL CELLS

Diana CENARIU¹, Adela PINTEA², Eva FISCHER-FODOR³, Mustafa BUCAK⁴, Mihai CENARIU^{5*} and Gianina CRIŞAN¹ 328

ARTEMISIA ANNUA INCREASES PRODUCTION PERFORMANCES IN BROILERS EXPERIMENTALLY INFECTED WITH *EIMERIA ACERVULINA* BUT HAS LITTLE ANTICOCCIDIAL EFFECT

Loredana POP¹, Adriana GYÖRKE^{1*}, Diana BĂRBURAŞ¹, Andra TOMA-NAIC¹, Zsuzsa KÁLMAR¹, Viorica MIRCEAN¹, Vasile COZMA¹ 329

GENETIC DIVERSITY OF CAMPYLOBACTER JEJUNI STRAINS ISOLATED FROM POULTRY IN ROMANIA

Carmen CRETU^{1*}, Cristina RIMBU¹, *Cristina HORHOGEA¹, Mihai OBADA² 330

WEST NILE VIRUS SEROSURVEILLANCE IN WILD BOARS FROM THE EAST OF ROMANIA

Anca PÂSLARU¹, Daniela POREA¹, Gheorghe SAVUȚA¹ and Luanda OŞLOBANU¹ 331

VIRAL INCLUSIONS IN *VARANUS EXANTHEMATICUS* AND *PYTHON MOLURUS BIVITTATUS*

Raluca Ioana RIZAC*, Iulia Alexandra PARASCHIV, Emilia CIOBOTARU, Georgeta DINESCU, Teodoru SOARE, Manuela MILITARU 332

MILK PH AND SERUM HAPTOGLOBIN AS BIOMARKERS FOR BITCH MAMMARY GLAND INFLAMMATIONS

¹Iosif VASIU, ¹Marina SPÎNU, ¹Mihaela NICULAE, ²Raul Alexandru POP and ¹Gheorghe Florinel BRUDĂSCĂ 333

SEROPREVALENCE OF PORCINE CYSTICERCOSIS IN NORTH-WESTERN ROMANIA	
Ana-Maria OLELEU ^{1,2*} , Calin GHERMAN ¹ , Andra TOMA-NAIC ¹ , Vasile COZMA ^{1,3}	334
A COMPARATIVE STUDY OF THE PREVALENCE OF ANAPLASMA PHAGOCYTOPHILUM IN DIFFERENT AREAS OF ROMANIA	
Laeish JUNKEE ^{1*} , Katerina DASKALAKI ¹ , Ioana A. MATEI ¹ and Andrei D. MIHALCA ¹ ..	335
ANAPLASMA PLATYS INFECTION IN FREE-ROAMING DOGS FROM TWO AFRICAN COUNTRIES	
Ioana A. MATEI ^{1*} , Angela M. IONICĂ ¹ , Gianluca D'AMICO ¹ , Patrick K. YAO ² , David MODRÝ ^{3,4,5} and Andrei D. MIHALCA ¹	336
NEED FOR MORPHOLOGICAL REDESCRIPTION OF THREE SPECIES OF AFRICAN TICKS	
Gianluca D'AMICO ¹ , Ioana A. MATEI ¹ , Angela M. IONICĂ ¹ , Patrick K. YAO ² , David Modrý ^{3,4,5} , Agustin ESTRADA-PENÁ ⁶ , Terence FUH NEBA ⁷ , Calin M. GHERMAN ¹ , Andrei D. MIHALCA ¹	337
PREVALENCE OF TRICHINELLA SPP. INFECTION IN LARGE WILD CARNIVORES SPECIES FROM ROMANIA BETWEEN 2014 AND 2015	
Ionuț MARIAN ^{1*} , Andrei Daniel MIHALCA ¹ and Călin-Mircea GHERMAN ¹	338
INFLUENCE OF LACTATION NUMBER ON SOMATIC CELL COUNT AND MORPHOLOGICAL CHARACTERIZATION OF CELL POPULATION IN COW MILK	
Alexandra TĂBĂRAN ^{1*} , Marian MIHAIU ¹ , Sorin Daniel DAN ¹ , Flaviu TĂBĂRAN ¹ , Oana REGET ¹ , Ionut Vlad CORDIȘ ¹ and Darius CORDEA ¹	339
SENSORIAL ASSESSMENT AND POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) CONTAMINATION EVALUATION IN SOME TRADITIONAL MEAT PRODUCTS FROM ROMANIA	
Oana-Margarita GHIMPETEANU [*] and Constantin SAVU	340
RISK ANALYSIS ASSESSMENT IN TWO SLAUGHTERING UNITS FOR PIGS	
Ionuț CORDIȘ, Alexandra TĂBĂRAN, Sorin Daniel DAN, Oana REGET, Marian MIHAIU	341
MICROBIOLOGICAL RISK ASSESSMENT IN A CATTLE SLAUGHTER UNIT	
Oana REGET ¹ , Alexandra TĂBĂRAN ^{1*} , Sorin Daniel DAN ¹ , Ionuț CORDIȘ ¹ , Marian MIHAIU ¹	342
COMPOSITIONAL AND MICROBIOLOGICAL FEATURES OF POULTRY MEAT OBTAINED IN THE FREE RANGE GROWTH SYSTEM COMPARED WITH THE INTENSIVE SYSTEM	
Sorin Daniel DAN [*] , Alexandra LĂPUŞAN, Oana REGET, Darius CORDEA, Ionuț CORDIȘ, Silviu VIDA and Marian MIHAIU	343
CORRELATIONS REGARDING MICROBIAL CONTAMINATION LEVEL AND OXIDATIVE SPOILAGE IN FROZEN BEEF, PORK, POULTRY MEAT AND FISH	
Silviu VIDA, Marian MIHAIU, Alexandra TĂBĂRAN and Sorin Daniel DAN [*]	344
PERICARDIAL CLOSURE DEFECT WITH ATRIAL HERNIATION IN AN ADULT DOG: A CASE REPORT	
Radu Andrei BAISAN, Cristina Magdalena BARBAZAN, Oana BÎRSAN, Vasile VULPE..	345
DIAGNOSTIC AND TREATMENT OF GLAUCOMA IN THE MODERN VETERINARY PRACTICE	
András DOBOS	346
THE ROLE OF ENDOSCOPY IN DIAGNOSIS OF DIGESTIVE PATHOLOGY	
Iuliu SCURTU ^{1*} , Gavril GIURGIU ¹ , Cosmin PESTEAN ² , Mircea MIRCEAN ¹	347

CONGENITAL VERTEBRAL MALFORMATIONS IN FRENCH BULLDOGS: X-RAY VS COMPUTED TOMOGRAPHY

Lucia CORLAT^{1*}, B. BLANCO², R. LUCENA², P.J. GINEL², F. MIRÓ³, M. NOVALES² .. 348
COMPARATIVE ASPECTS IN INTERICTAL, INTRIACTAL AND POSTICTAL ELECTROENCEPHALOGRAM IN DOGS WITH IDIOPATHIC EPILEPSY

Gabriela-Dumitrita STANCIU, Mihai MUSTEATA, Mihaela ARMASU, Gheorghe SOLCAN 349

ELECTROENCEPHALOGRAPHY EVALUATION OF CEREBRAL BIOELECTRIC ACTIVITY IN DOGS WITH BABESIOSIS

Madalina BRATEANU, Gabriela Dumitrita STANCIU, Mihaela ARMASU, Mihai MUSTEATA, Gheorghe SOLCAN* 350

ELECTROENCEPHALOGRAPHIC ASPECTS IN DOGS WITH INSULINOMA. CASE REPORT

Mihaela ARMAŞU, Mihai MUSTEAȚĂ, Gabriela Dumitrița STANCIU, Mădălina ROȘCA, Gheorghe SOLCAN* 351

ANTIFREEZE ACUTE INTOXICATION: HEMODIALYSIS IN TWO GERMAN SHERPARD DOGS

Bogdan Alexandru VIȚĂLARU^{1*}, Ștefăniță Bogdan Bălășcău¹ 352

POLYPROPYLENE MESH REPAIR OF A LARGE INCISIONAL HERNIA IN A FEMALE BEAGLE DOG

Ciprian OBER*, Liviu OANA, Cosmin PEȘTEAN, Lucia BEL, Sidonia BOGDAN, Marian TAULESCU and Cornel CĂTOI 353

OVERVIEW OF ESOPHAGOGASTRIC ULCER IN SLAUGHTER HOUSE – WELWARE AND BIOSECURITY MEASURES AT COMERCIAL FARM

Jovan BOJKOVSKI¹, Ana VASIĆ¹, Nemanja ZDRAVKOVIĆ¹, Teodora VASILJEVIĆ², Dragan ROGOŽARSKI³ 354

SECTION 10: LAND MEASUREMENT, NATURAL AND HUMANISTIC SCIENCES - MATHEMATICS AND STATISTICS, COMPUTER SCIENCE AND MULTIMEDIA, BIOPHYSICS AND AGRO-METEOROLOGY, BUILDING ENGINEERING, LAND IMPROVEMENT, CADASTRE AND IRRIGATED CROPS

ELECTROCONDUCTIVITY AND PH VARIATIONS OF NUTRIENT SOLUTION DETERMINED FOR THREE HYDROPONIC CULTURE SYSTEMS

Silviu CORPODEANU^{1*}, Marcel DIRJA¹, Corina CATANA² and Adela HOBLE¹ 355

AN APPROPRIATE SOLUTION OF DESIGNING AND ACCOMPLISHING OF A GEODETIC NETWORK FOR MONITORING OF THE CONSTRUCTIONS

Constantin COSARCA^{1*}, Aurel SARACIN¹, Aurel Florentin NEGRILA¹ and Adrian SAVU¹ 356

CHANGES IN METEOROLOGICAL FACTORS AND THEIR INFLUENCE ON THE CLIMATIC IN CLUJ NAPOCA

Horia CRIVEANU^{1*}, Svetlana MICLE^{1*}, Cezara MIRON¹ 357

MODERN TECHNOLOGIES USED FOR COLLECTING AND MANAGING 3D DELIVERABLES

Caius DIDULESCU¹, Adrian SAVU¹ 358

RESEARCH ON EFFECTS OF ACTION ELECTRIC FIELD HATCHING QUAIL EGGS

Anca Ioana DINU¹, Florina Marta POP², Ancuta TENTER (RADU)³, Horia CRIVEANU⁴ .. 359

CONSIDERATIONS REGARDING THE STABILITY OF LANDS AFFECTED BY SALT MINING THROUGH DISSOLUTION	
Raluca FĂRCĂŞ ¹ , Sanda NAŞ ¹ , Andra PORUȚIU ² , Mircea ORTELECAN ³ , Tudor SĂLĂGEAN ^{3*} , Lucian DRAGOMIR ⁴	360
SUSTENABILITY AND PROPERTY TAXATION FOR INDIVIDUAL UNITS FROM MULTISTOREY BUILDINGS	
Elena – Cosmina GIUGĂ ¹	361
FUNDAMENTAL PARAMETER METHOD APPLIED TO X-RAY LINE PROFILE ANALYSIS	
Florica MATEI ^{1*} , Nicolae ALDEA ² , Marius RADA ² , Simona RADA ³ , Ioana POP ¹ and Oana ¹ POP	362
ANALYSING SOLAR RADIATION IN SUCEAVA USING GIS FUNCTIONS	
Andreea MIHĂILESCU ¹ and Ana-Cornelia BADEA ^{2*}	363
THE USE OF TOPOGRAPHIC MEASURING FOR THE STUDY OF SUBSIDENCE IN THE EASTERN AREA OF VALEA JIULUI COALFIELD	
Maricel PALAMARIU ^{1*} , Mircea BELDEA ² and Ioan VOINA ³	364
THE INFLUENCE OF ELECTRIC FIELD ON <i>SILYBUM MARIANUM</i> SEED GERMINATION	
Marta Florina POP ^{1*} , Anca Ioana DINU, Radu(Tenter)Ancuta , Horia Radu CRIVEANU....	365
ASPECTS REGARDING THE DELIMITATION OF THE DUMBRAVA HUNTING GROUND, CLUJ COUNTY	
Nicolae POP ¹ , Tudor SĂLĂGEAN ^{1*} , Ioan OROIAN ¹ , Mircea ORTELECAN ¹ , Paul SESTRAŞ ^{1,2} , Ioan LUPUȚ ¹ , Cornel ARSENE ³ , Petru BURDUHOS ¹	366
EFFECT OF GAMMA RADIATION ON <i>PAULOWNIA</i> (THUNB.) SIEBOLD & ZUCC. STEUD . SEEDS GERMINATION PROCESS	
Ancuta RADU (TENTER) [*] , Horia Radu CRIVEANU, Mihai VOEVOD	367
THE USE OF STATISTICAL ASSUMPTIONS AT DETERMINING THE SUPPORT NETWORK POINTS	
Tudor SĂLĂGEAN ¹ , Paul SESTRAŞ ^{1,2} , Mircea ORTELECAN ¹ , Dumitru ONOSE ³ , Adrian SAVU ³ , Raluca Farcaş ⁴ , Andra PORUȚIU ¹	368
ASPECTS REGARDING THE USE OF TOPOGRAPHIC MEASUREMENTS FOR MONITORING DRAGAN VALLEY DAM	
Paul SESTRAŞ ^{1,2} , Tudor SĂLĂGEAN ^{2*} , Marcel DÎRJA ² , Mircea ORTELECAN ² , Dan VELE ³ , Diana FICIOR ² , Jutka DEAK ²	369
GIS APPLICATION IN LANDSCAPE ARCHITECTURE AND LAND PLANNING: CREATING A WEB GIS OF THE CENTRAL PARK SIMION BĂRNUTIU	
Paul SESTRAŞ ^{1,2} , Tudor SĂLĂGEAN ^{2*} , Marcel DÎRJA ² , Mircea ORTELECAN ²	370
PROSPECT OF A GIS BASED DIGITIZATION AND SPATIAL ANALYSIS OF THE UASVM CLUJ ORCHARD	
Paul SESTRAŞ ^{1,2} , Tudor SĂLĂGEAN ^{2*} , Marcel DÎRJA ² , Mircea ORTELECAN ²	371
THE MONITORIZATION OF LAND SLIDES WITH THE AID OF TOPO-GEODESYC METHODS	
Istvan Botond SZILAGYI ¹ , Marcel DÎRJA ¹ , Mihai VOEVOD ²	372
STUDY REGARDING RUNOFF IN DIFFERENT SUBSTRATES FOR GREEN ROOFS	
Mihaela Simona VARVARĂ ^{1*} , Mihai VOEVOD ¹ and Marcel DÎRJA ¹	373

FIRST MAPS FOR THE SYSTEMATIC REGISTRATION OF PROPERTY IN THE KINGDOM OF ROMANIA

Doina VASILCA¹ 374

ECONOMIC EFFICIENCY OF *HEDERA HELIX L.* CULTIVATION TO BY USED FOR DEGRADATED LAND IMPROVEMENT

Mihai VOEVOD^{1*}, Adela HOBLE¹, Mihaela Simona VARVARA¹, Ancuța RADU (TENTER)¹ and Marcel DÎRJA¹ 375

SECTION 10: LAND MEASUREMENT, NATURAL AND HUMANISTIC SCIENCES - PEDAGOGY AND METHODICS, APPLIED LANGUAGES IN AGRICULTURE

PROS AND CONS RELATED TO ENGLISH BORROWINGS IN CROATIAN AGRICULTURE TERMINOLOGY

Anica PERKOVIC^{1*} 376

ENHANCED LINGUISTIC COMPETENCES –A PREREQUISITE AND A NECESSITY FOR THE 21ST CENTURY AGRICULTURE WORKERS

Marijana DIMITROVA^{1*} 377

POSTER PRESENTATIONS 378

SECTION 1: AGRICULTURE

DYNAMICS FREQUENCY OF *TUTA ABSOLUTA* ATTACK PRODUCED IN GREENHOUSES FROM ARAD IN 2015

Raul BĂEȚAN^{1*}, Stefania TÖTÖS², Ion OLTEAN¹, Teodora FLORIAN¹ 379

RESEARCH ON INFLUENCE OF SOME POST-HARVEST CHANGES OF PEACH GENOTYPES

Carmen BEINŞAN¹, Radu SUMALAN¹, Sorin VÂTC² 380

INFLUENCE OF SALT STRESS ON QUALITY OF SOME ONION (*ALLIUM CEPA L.*) LOCAL LANDRACES

Carmen BEINŞAN¹, Radu SUMALAN¹, Sorin VÂTC² 381

THE DISTRIBUTION OF *ALTERNARIA SP.* ON *BRASSICA NAPUS* SEEDS

Lavinia-Mariana BERCA*, Stelica Cristea 382

EFFECT OF A BIOFERTILIZER ON PLANT GROWTH AND YIELD OF PEPPER-PEPPER CULTIVAR (*CAPSICUM ANNUUM L.*) GROWN IN GREENHOUSES

Maria-Stela BRADEA^{1,2*}, Aicha MESSAOUD¹, Lila ABIDI¹ and Salima KEBBAS² 383

ANTIBACTERIAL ACTIVITY OF VEGETAL EXTRACTS EXPRESSED IN GENTAMICIN EQUIVALENTS INDEX (GEAA)

Giorgiana Mihaela CĂTUNESCU¹, Ioan ROTAR², Roxana VIDICAN², Ancuta M. ROTAR^{3*}, Adriana Paula DAVID¹ and Florina BUNGHEZ³ 384

THE MOLECULAR POLYMORPHISM EVALUATION IN *SALIX SP.* ROMANIAN ACCESSIONS – PRELIMINARY RESULTS

Mihaela CORNEANU, Sorina - Domnica POPESCU* and Cornelia HERNEA 385

MEASURES TO REDUCE THE DRIFT WHEN APPLYING PPP PRODUCTS

Ioan DROCAȘ, Manfred ROETTELE, Ovidiu MARIAN*, Ovidiu RANTA 386

**EFFICACY OF FUNGICIDE PROGRAMMES FOR THE CONTROL OF LATE BLIGHT
(*PHYTOPHTHORA INFESTANS*) IN ROMANIA**

Manuela HERMEZIU^{1*}, Gavrilă MORAR², Radu HERMEZIU¹, Sorina NITU¹ 387

AGRO-MORPHOLOGICAL CHARACTERIZATION OF EGGPLANTS OF THE *SOLANUM AETHIOPICUM* GILO GROUP FROM CÔTE D'IVOIRE

Auguste KOUASSI¹, Abou Bakari KOUASSI^{1*}, Koffi Brice Aymar KOUASSI¹, Tah Yves-Nathan TIAN-BI¹, Eric BÉLI-SIKA¹, Oulo ALLA-N'NAN¹, Jean-Claude N'ZI¹, Assanvo Simon-Pierre N'GUETTA¹ and Bakary TIO-TOURÉ¹ 388

MEASURES TO REDUCE THE OPERATOR CONTAMINATION WITH PPP PRODUCTS WHEN PERFORMING SPRAY TREATMENTS

Ovidiu MARIAN, Manfred ROETTELE, Ioan DROCAŞ*, Ovidiu RANTA 389

STUDY OF CHLOROPHYLL PIGMENTS IN *PHASEOLUS VULGARIS* IN TERMS OF HEAVY METAL COMPLEXATION WITH VARIOUS FORMS OF SULFUR TO REDUCE THEIR TOXICITY

Lucia MIHĂLESCU^{1*}, Zorica VOŞGAN¹, Oana MARE ROSCA¹, Monica MARIAN¹, Stela JELEA¹, Anca DUMUȚA¹, Aurel MAXIM², Mirela CORDEA² 390

THE STUDY REGARDING THE INFLUENCE OF FERTILIZATION AND MIXTURE ON THE STRUCTURE OF THE VEGETATION COVER ON TEMPORARY MEADOWS UNDER THE CENTER OF MOLDAVIA CONDITIONS

Margareta NAIE¹, Vasile VÎNTU^{1*}, Elena TROTUŞ², and Simona POCHIŞCANU¹ 391

USE OF SEMIOCHEMICAL PRODUCTS IN MONITORING AND CONTROL *MELIGETES AENEUS* SPECIES

Ion OLTEAN¹, Monica GORGAN², Aurelia POP², Laura MACAVEI¹, and Teodora FLORIAN^{1*} 392

RESEARCH REGARDING THE INFLUENCE OF SOME TECHNOLOGICAL FACTORS ON SORGHUM CAPACITY TO FORM SHOOTS, UNDER THE CENTER OF MOLDAVIA CONDITIONS

Simona – Florina POCHIŞCANU^{1*}, Teodor ROBU¹, Margareta NAIE¹ and Elena TROTUŞ² 393

THE EFFECT OF SULPHONILUREA HERBICIDES AGAINST WEEDS OF MAIZE CROPS IN CONDITIONS OF SCDA TURDA

Horia Alexandru POP, Teodor RUSU*, Ileana BOGDAN 394

PRODUCTIVITY OF *FESTUCA RUBRA* L. – *AGROSTIS CAPILLARIS* L. GRASSLANDS

Ioan ROTAR^{1*}, Mirela CIREBEA¹, Roxana VIDICAN¹, Florin PĂCURAR¹, Anamaria MĂLINAŞ¹ and Ovidiu RANTA² 395

PHYTOCHEMICAL CHARACTERISATION AND CICATRIZING ACTIVITY OF A SPONTANEOUS SUCCULENT *DEOSPERMA RESEII*

Abdelhak ROUBI, M. KHALI, S. BOUKRITA 396

ANTIFUNGAL ACTIVITY AND CHEMICAL COMPOSITION OF *ORIGANUM VULGARE* L. ESSENTIAL OIL

Cristian F. RUS^{1*}, Georgeta POP¹, Ersilia ALEXA¹, Renata M. ŞUMĂLAN¹, Andreea PAG¹, Ilinca M. IMBREA¹ 397

ENZIMATIC AND GENETIC VARIABILITY IN *BACILLUS* spp. STRAINS WITH PLANT BENEFICIAL QUALITIES

Oana-Alina SICUIA^{1,2}, Iulian GROSU¹, Florica CONSTANTINESCU², Cătălina VOAIDES¹, Călina Petruşa CORNEA^{*1} 398

THE INFLUENCE OF TILLAGE AND IRRIGATION ON THE MAIZE PRODUCTION	
Violeta SIMIONESCU ^{1,2} , Monica TANC ² , Ion BULICĂ ²	399
THE BEHAVIOUR OF THE FALL-RAPESEED CROP PLANTED IN BRAILA PLANE IN THE CONDITIONS OF THE AGRICULTURAL YEAR 2013-2014	
Aurica SOARE * and Gh. VOICU	400
MICORHIZAL CIRCUIT IN THE ROOT OF AVENA SATIVA	
Vlad STOIAN ¹ , Roxana VIDICAN ^{1,*} , and Ioan ROTAR	401
OPTIMIZATION WORK OF SOIL FOR THE CULTIVATION OF AFILA PEAS IN TURDA AREA	
Alina ȘIMON ^{1,2 *} , Teodor RUSU ² , Felicia CHEȚAN ^{1,2} , Cornel CHEȚAN ^{1,2}	402
THE INFLUENCE OF TILLAGE AND WATER SUPPLY ON THE SOY PRODUCTION	
Monica TANC ² , Violeta SIMIONESCU ^{1,2} , Ion BULICĂ ²	403
THE INFLUENCE OF CROP ROTATION ON AUTUMN WHEAT PRODUCTION	
Monica TANC ² , Violeta SIMIONESCU ^{1,2} Ion BULICĂ ²	404
EVALUATION OF Vicia sativa L. AS GREEN MANURE: CASE STUDY OF GENOTYPE AND PLANT DENSITY INFLUENCE ON N AVAILABILITY	
Evangelia TIGKA ¹ * Dimitrios BESLEMES ¹ * Dimitrios VLACHOSTERGIOS ¹ * Dimitrios BILALIS ² *	405
STUDIES REGARDING THE INFLUENCE OF ACTIVE SUBSTANCES FROM MEDICINAL PLANTS ON SOME PATHOGEN OF WHEAT CROPS	
Daniela TRIFAN*, Emanuela LUNGU.....	406
RESEARCH ON THE INFLUENCE OF SOWING AGE AND DENSITY IN WINTER BARLEY PRODUCTION, WITH ORGANIC AND MINERAL FERTILIZATION	
Daniela TRIFAN ¹ , Marcel BULARDA ¹	407
AGRO ECONOMICAL VALUE OF THE INULA HELENIUM L. IN REPUBLIC OF MOLDOVA CONDITIONS	
Victor ȚÎTEI*	408
DETERMINATION OF LEEK YELLOW STRIPE VIRUS; (LYSV) IN ALLIUM GENUS PLANTS IN SOUTH MARMARA REGION BY DAS-ELISA METHOD	
Hasan Tuna TUZLALI.....	409
ASSESSING THE ABSORPTION POTENTIAL BY ESTABLISHING THE HIERARCHY OF ZEA MAYS ROOT SYSTEM	
Roxana VIDICAN, Vlad STOIAN* and Ioan ROTAR.....	410
FAUNISTIC STUDY OF LADYBIRDS (COLEOPTERA: COCCINELLIDAE) IN THE BANAT REGION, ROMANIA	
Ana – Maria VIRTEIU ¹ , Ioana GROZEA ¹ , Ramona STEF ¹ , Mihai VLAD ¹ and Ionela DOBRIN ²	411
INFLUENCE OF THE GRAZING CONDITIONS ON THE FLORISTIC DIVERSITY IN THE SOUTH EASTERN PART OF THE GUTAI MOUNTAINS, THE MARAMURES COUNTY	
Zorica VOŞGAN ^{1*} , Roxana VIDICAN ² , Lucia MIHALESCU ¹ , Monica MARIAN ¹ , Stela JELEA ¹ , Oana MARE ROSCA ¹ , Anca DUMUȚA ¹ , Susana SFECHIȘ ²	412

SECTION 2: ENVIRONMENTAL PROTECTION AND SUSTAINABLE DEVELOPMENT

WHEAT VARIETIES RESISTANCE TO THE BIOTIC STRESSES GENERATED BY DISEASES – MAIN FACTOR OF AGRO ECOLOGICAL ECONOMY	
Vasile Marius CĂRĂBĂȚ ¹ , Mihai BERCA ¹ , Roxana HOROIASH ^{1*} , Cristian Florinel CIOINEAG ²	413
ECOLOGICAL INTERPRETATION OF SOILS FROM OANCEA VINEYARD ECOPEDOTOPE	
Maria CONTOMAN ¹ , Alina SIMIONICA ²	414
OPTIMIZATION OF EXTRACTION CONDITIONS OF TOTAL PHENOLICS FROM SAMBUCUS BERRY POMACES	
Francisc Vasile DULF ^{1*} , Dan Cristian VODNAR ² and Carmen SOCACIU ²	415
CONTRIBUTIONS TO THE DEVELOPMENT OF A CROP GROWTH MODEL FOR ASSESSING GRASS-LEGUMES INTERACTIONS	
Daniel DUNEA ¹ , Niculae DINCA ²	416
THE STRUCTURE AND DYNAMICS OF MACROZOOBENTHIC COMMUNITIES OF THE BEGA RIWER WATER	
Anca-Andreea MARIN ^{1*} , Benoni LIXANDRU ¹ , Milca PETROVICI ² , Adrian SINITEAN ² , Florica MORARIU ¹ , Dumitru POPESCU ¹ , Valentin LATTI ¹	417
ENVIRONMENTAL IMPACT OF WASTEWATER REUSE	
Violeta NICULESCU ¹ , Ramona ZGAVAROGEA ^{1,2*} , and Corina CIUCURE ¹	418
PHENOL DEGRADATION BY A HALOPHILIC ARCHAEOAL STRAIN	
Birgul OZCAN ^{1*} , Eda ACIKGOZ ²	419
IDENTIFICATION OF BENEFITS FOR THE INHABITS OF SOMESUL RECE NATURA 2000 SITE	
Sînziana Ecaterina PAULIUC, Marian PROOROCU, Ioan OROIAN, Antonia ODAGIU	420
CLIMATE CHANGE AND ITS ABILITY TO TRANSFORM FARMING SYSTEM IN SETIF REGION- ALGERIA	
Amar ROUABHI ¹ , Mustapha KEBICHE ² and Miloud HAFSI ¹	421
IMPROVEMENT OF SOILS POLLUTED WITH PETROLEUM IN ORDER TO RESTORE AGRICULTURAL CIRCUIT	
Virgil SCARLAT ¹ , Maria PELE ² and Elena Maria DRĂGHICI ^{2*}	422
WASTES FROM FORESTRY AND ENERGY INDUSTRY, AS POTENTIAL BIOREGULATORS IN SOYBEAN (<i>GLYCINE MAX L.</i>) PLANTS	
Corneliu TANASE ^{1*} , Valentin I. POPA ²	423
POTENTIAL BIOREGULATORS FOR RAPE (<i>BRASSICA NAPUS L.</i>) PLANTS	
Corneliu TANASE ^{1*} , Valentin I. POPA ²	424
THE INFLUENCE OF CONSTRUCTIVE PARAMETERS OF DECANTERS ON WASTEWATER PROCESSING EFFICIENCY	
Daniela ZÂRNOIANU, Simion POPESCU	425

SECTION 3: FOOD SCIENCE AND TECHNOLOGY

COMPOSITIONAL STUDY FOR IMPROVING WHEAT FLOUR WITH FUNCTIONAL INGREDIENTS	
Livia APOSTOL ^{1*} , Mona Elena POPA ¹ , Gabriel MUSTATEA ²	426

OBTAINING AND CHARACTERIZATION OF FLUX-BASED PRODUCTS

Cosmina-Maria BOGĂTEAN¹, Maria TOFANĂ^{1*}, Emil RACOLȚA¹, Sonia A. SOCACI¹, Ana POP (CUCEU)¹, Elena S. BIRIȘ-DORHOI¹ 427

STUDY REGARDING THE ACUMULATION OF SULFUR COMPOUNDS IN WHITE RADISH DURING THE FIRST THREE DAYS OF SPROUTING

Maria Doinița BORŞ¹, Richard MITHEN², Shikha SAHA², Maria TRAKA², Sonia SOCACI¹, Maria TOFANĂ^{1*} 428

PHYSICOCHEMICAL CHARACTERISTIC OF MALT VINEGAR WITH SPICES

Andrei BORŞA, Liana-Claudia SALANȚĂ*, Maria TOFANĂ, Sevastița MUSTE, Nicoleta BORZA, Carmen POP 429

OBTAINING, PURIFICATION AND CHARACTERIZATION OF SUPERIOR FATTY ACIDS FROM VEGETAL OIL [GRAPES, CHESTNUTS, CORIANDER, ROSEHIPS]

Ileana COCAN 430

STUDY CONCERNING PROTECTION BY ACYLATING OF HYDROXYL FUNCTIONAL GROUPS (2.5 POSITIONS) OF ISOSORBIDE WITH ACETIC ANHYDRIDE

Ileana COCAN 431

QUALITY EVALUATION OF TRADITIONAL FOOD PRODUCTS FROM TRADE FAIRS

Alina A. DOBRE¹, Mirela E. CUCU¹, Marta ZACHIA¹, Nastasia BELC¹ 432

HOFMANN DEGRADATION, OF HOMOGENEOUS B-ALCHYL (C₁₂H₂₅/C₁₈H₃₇) POLYETHYLENEOXY (N=3-18) PROPIONAMIDES

Călin JIANU and Ionel JIANU 433

HOMOGENEOUS ETHYLENEDIAMINOTETRAPROPIONICS OLIGOMERS OF ETHENE OXIDE POTENTIAL POLYDENTATE SEQUESTERING IN FOOD PROCESSING

Călin JIANU and Ionel JIANU 434

STUDIES ON FUNCTIONAL YOGURT WITH ADDED INULIN AS PREBIOTIC FIBRA

Mirela JIMBOREAN, Dorin ȚIBULCĂ, Ancuța M. ROTAR, Carmen POP 435

COMPARATIVE ANTIFUNGAL EFFECT OF LACTIC ACID BACTERIA STRAINS ON PENICILLIUM DIGITATUM

Adrian MATEI^{1*}, Călină Petruța CORNEA¹, Sorin MATEI², Gabi-Mirela MATEI², Steliană RODINO^{1,3} 436

ACTIVE COATINGS FROM CHITOSAN AND NEROL FOR THE SHELF-LIFE EXTENSION OF TABLE GRAPES

Adriana Laura MIHAI, Mona Elena POPA 437

IMPROVING FOOD SAFETY THROUGH THE DEVELOPMENT AND IMPLEMENTATION OF ACTIVE AND BIODEGRADABLE FOOD PACKAGING SYSTEMS

Amalia Carmen MITELUȚ^{1*}, Mona Elena POPA¹, Elisabeta Elena TĂNASE¹ and Mihaela DRĂGHICI¹ 438

ASSESSMENT OF THE TOTAL ANTIOXIDANT CAPACITY OF APPLES FROM PHYSIOLOGICAL FALLS

Elena Andruța MUREȘAN¹, Sevastița MUSTE^{1*}, Romina Alina VLAIC¹, Anamaria Pop¹ Vlad MUREȘAN¹ 439

ACRYLAMIDE IN FOOD – EU VERSUS FDA APPROACHES

Gabriel MUSTĂȚEA^{1*} and Mona Elena POPA¹ 440

SOLVENT FREE MICROWAVE EXTRACTION: AN ECO-FRIENDLY AND RAPID PROCESS FOR GREEN ISOLATION OF ESSENTIAL OIL FROM LEMON GRASS

Boukhatem Mohamed NADJIB^{1,2*}, Ferhat Mohamed AMINE³, Kameli ABDELKRIM¹, Saidi FAIROUZ¹, Mekarnia MAAMAR⁴ 441

LEMON GRASS ESSENTIAL OIL: CHEMICAL COMPOSITION, *IN VITRO* ANTIFUNGAL ACTIVITY AND CONTROL OF *SACCHAROMYCES CEREVIRIAE* IN ORANGINA FRUIT JUICES

Boukhatem Mohamed NADJIB^{1,2*}, Ferhat Mohamed AMINE³, Kameli ABDELKRIM¹, Saidi FAIROUZ², Tchoketch Kebir HADJER², Teffahi DJAMEL⁴ 442

EVALUATION OF PHYSICOCHEMICAL AND MICROBIOLOGICAL CHARACTERISTICS OF MEAT PRODUCTS

Melinda NAGY, Sonia A. SOCACI, Maria TOFANĂ*, Crina MURESAN, Carmen POP, Ana Viorica POP (CUCEU), Liana SALANTA 443

PHYSICOCHEMICAL AND SENSORY CHARACTERISTICS OF PRETZEL WITH ADDED WHEAT BRAN

Adriana PAUCEAN¹, Simona MAN^{1*}, Sevastița MUSTE¹ and Anamaria POP¹ 444

EFFECT OF WHOLE MULTIGRAIN BLENDS ADDITION ON QUALITY CHARACTERISTICS OF COOKIES

Adriana PAUCEAN¹, Simona MAN^{1*}, Sevastița MUSTE¹ and Anamaria POP¹ 445

STUDY OF IDENTIFICATION AND CHARACTERIZATION OF MINERAL WATERS IN TARGU LAPUS AREAS

Georgiana Smaranda PETRUTĂ, Sevastița MUSTE 446

EVALUATION THE SENSORY AND PROBIOTICS PROPERTIES OF THE YOGURT SUPPLEMENTED WITH CARROT JUICE

Carmen R. POP¹, Cătălina TOPAN¹, Ancuța M. ROTAR^{2*}, Cristina Anamaria SEMENIUC¹, Liana SALANȚĂ² 447

MICROWAVE EFFECT ON FREE AND ENCAPSULATED *LACTOBACILLUS PLANTARUM* IN YOGHURT

Oana Lelia POP¹, Lucian CUIBUS^{1*}, Dan Cristian VODNAR¹, Zorița DIACOMEASA¹, Carmen SOCACIU¹ 448

PRELIMINARIES TRIALS FOR ULTRA-FINE FRICTION GRINDING OF SUNFLOWER SEEDS - THEREOF TAHINI AND HALVA PRODUCTION AND CHARACTERIZATION

Emil RACOLȚĂ^{1*}, Hatice SEMİZER², Ferda SEYHAN² and Vlad MUREŞAN¹ 449

ELABORATION OF AN INPUT – OUTPUT MODEL AS PRELIMINARY ASPECTS TO OBTAIN GLUTEN FREE PASTA ADDED WITH BANANA FLOUR

Petru-Bogdan RĂDOI^{1*}, Minodora IOVAN¹, Georgiana OLTEANU², Ersilia ALEXA¹ and Daniela STOIN¹ 450

PHYSICOCHEMICAL AND SENSORIAL CHARACTERISTICS OF FRANKFURTERS WITH THE ADDITION OF CHILLI AND KIM CHI

Claudiu-Dan SĂLĂGEAN, Carmen POP*, Maria MORAR 451

QUALITY AND SENSORIAL CHARACTERISTICS OF RAW-VEGAN BARS

Liana-Claudia SALANȚĂ, Maria TOFANĂ*, Sonia SOCACI, Cristina BARTA, Carmen POP..... 452

EVALUATION OF POLYPHENOL CONTENT AND ANTIOXIDANT PROPERTIES OF SOME FRUIT SEEDS

Liana-Claudia SALANȚĂ, Maria TOFANĂ*, Sonia SOCACI, Carmen POP, Anamaria POP..... 453

PHYSICOCHEMICAL AND SENSORY PROPERTIES OF WHEY CHEESE WITH PINE NUTS

Cristina Anamaria SEMENIUC¹, Laura ZĂPÂRȚAN¹, Laura STAN², Carmen Rodica POP¹,
Maria Doinița BORȘ² and Ancuța M. ROTAR^{2*} 454

EVALUATION OF BIOACTIVE COMPOUNDS FROM FLOWERS AND FRUITS OF BLACK ELDER (*SAMBUCUS NIGRA L.*)

Sonia A. SOCACI¹, Anca C. FĂRCĂȘ^{1*}, Maria TOFANĂ¹, Carmen POP¹, Mirela JIMBOREAN¹, Melinda NAGY¹ 455

EFFECT OF PRETREATMENT AND FREEZING STORAGE ON PEACHES QUALITY ATTRIBUTES

Andreea STAN*, Mona Elena POPA 456

MICROORGANISMS INVOLVED IN SPOILAGE OF BAKERY PRODUCTS

Georgiana-Aurora ȘTEFĂNOIU, Elisabeta Elena TĂNASE, Amalia Carmen MITELUȚ and
Mona Elena POPA 457

MICROBIOLOGICAL ANALYSIS OF ROMANIAN DAIRY PRODUCTS OBTAINED FROM BUFFALO MILK

Gheorghe ȘTEȚCA¹, Nicolae MOCUȚA², Vasile CHINDRIȘ³, Teodora Emilia COLDEA^{1*} and
Adriana MOREA⁴ 458

IMPLICATION OF POWDERED MILK IN STAPHYLOCOCCAL INTOXICATION: A CASE STUDY

Nicolae MOCUȚA¹, Gheorghe ȘTEȚCA^{2*}, Vasile CHINDRIȘ³ and Adriana MOREA⁴ 459

MICROBIOLOGICAL ANALYSIS, DETECTION OF ADULTERANTS AND CONTAMINANTS IN RAW MILK AT FARMS IN CENTRAL ROMANIA

Gheorghe ȘTEȚCA¹, Lenuța ȘUTEU¹, Teodora Emilia COLDEA^{1*} and Arghir ILEA² 460

HYGIENE OF RAW MILK FROM AUSTRIAN SPOTTED, HOLSTEIN AND ROMANIAN SPOTTED BREEDS, IN THREE FARMS FROM CENTRAL ROMANIA

Gheorghe ȘTEȚCA¹, Lenuța ȘUTEU¹, Teodora Emilia COLDEA^{1*} and Arghir ILEA² 461

OPTIMISATION OF POLYPHENOLIC COMPOUNDS EXTRACTION FROM RED GRAPE POMACE USING DIFFERENT SOLVENTS

Adrian ȘERDINESCU^{1*}, Laura ENACHE¹, Lidia FÎCIU¹, Elena BRÎNDUȘE¹ 462

ORGANOCHLORINE PESTICIDES RESIDUES DURING PROCESSING OF PRESSED CHEESE

Dorin ȚIBULCĂ¹, Mirela JIMBOREAN^{1*}, Dan SĂLĂGEAN¹, Ariana CARABA² 463

ASPECTS OF SPONTANEOUS FED-BATCH FERMENTATIONS OF HIGH GRAVITY MUSTS

Roxana-Juliana TUDORIE^{1,2*}, Maren SCHARFENBERGER-SCHMEER², Christian von WALLBRUNN¹ 464

INCREASING THE NUMBER OF CATTLE MEAT - CERTIFIED ORGANIC LIVESTOCK HOLDING FARM

Marian-Daniel USTUROI^{1*}, Valentin-Cosmin SĂRĂCIN², Adrian VASILE³ 465

THE IMPORTANCE OF BEEF MEAT IN HUMAN ALIMENTATION

Marian-Daniel USTUROI^{1*}, Valentin-Cosmin SĂRĂCIN², Adrian VASILE³ 466

STARCH CHANGES DURING GROWTH AND DEVELOPMENT OF THREE PLUM VARIETIES

Romina Alina VLAIC¹, Andruța Elena MUREȘAN¹, Vlad MUREȘAN¹, Crina Mureșan¹,
Doinița BORȘ², Ovidiu Petru MOLDOVAN¹ and Sevastița MUSTE^{1*} 467

GRAIL PROJECT: GLYCEROL BIOREFINERY APPROACH FOR THE PRODUCTION OF HIGH QUALITY PRODUCTS OF INDUSTRIAL VALUE

Monica TRIF ^{1*} , Berta ÁLVAREZ PENEDO ^{2*} , Alexandru RUSU ²	468
TERIFIQ PROJECT: MULTIPLE GEL IN OIL IN WATER EMULSIONS AS FAT REPLACERS IN SAUCES AND READY PREPARED FOODS	
Monica TRIF ^{1*} , Eva CSUTAK ² , Natalia PEREZ-MORAL ³ , Tibor GAGYI ² , Didier PINTORI ⁴ , Malte BETHKE ¹ and Peter J. WILDE ^{3*}	469
JAM PROCESSING ON CONCORD GRAPES VARIETY POLYPHENOLS AND ANTIOXIDANT CAPACITY	
Anamaria POP, Sevastița MUSTE [*] , Adriana PĂUCEAN, Carmen POP, Liana SALANȚĂ Simona MAN, Andruța MUREȘAN.....	470
NEW APPROACH ON SUNFLOWER KERNEL PROCESSING - PARTIALLY DEFATTED PASTE WITH SEVERAL TECHNOLOGICAL APPLICATIONS	
Vlad MUREȘAN ^{*1} , Nadejda PÎNZARI ¹ , Andreea PUȘCAȘ ¹ , Cristina GHERASIM ¹ , Emil RACOLȚA ¹ , Sevastița MUSTE ¹ , and Carmen SOCACIU ²	471
INFLUENCE OF THE RAW MATERIALS ON THE MICROBIOLOGY QUALITY OF BREAD FORTIFIED WITH VEGETABLES	
Ovidiu MOLDOVAN ¹ , Carmen R. POP ¹ , Ancuța M. ROTAR ¹ , Romina VLAIC ¹ , Maria Doinița BORŞ ¹ and Sevastița MUSTE ^{1*}	472
SECTION 4: HORTICULTURE AND FORESTRY	
EFFECT OF VANADIUM ON DRY MATTER AND NUTRIENT CONCENTRATION IN MENTHA PULEGIUM L	
Anastasia AKOUMANAKI-IOANNIDOU ¹ , Pantelis E. BAROUCHAS ² , Artemis KYRAMARIOU ³ , Evrydiki ILIA ³ , Nikolaos K. MOUSTAKAS ³	473
LIMONIASTRUM MONOPETALUM (L.) A CANDIDATE PLANT FOR USE IN URBAN AND SUBURBAN AREAS. AN ANATOMICAL AND HISTOCHEMICAL STUDY	
Anastasia AKOUMANAKI-IOANNIDOU ¹ , Roxani P SPENTZA ¹ and Costas FASSEAS ² ... 474	
EXPRESSION OF THE VACUOLAR Na^+/H^+ ANTIPORTER GENE (<i>NHX1</i>) IN THREE PLANTAGO SPECIES DIFFERING IN SALT TOLERANCE	
Mohamad AL HASSAN ¹ , Enrico DANISO ^{1,3} , Monica BOSCAIU ² and Oscar VICENTE ^{1*}	475
THE EFFECT OF GREEN WORKS ON THE QUALITY OF ORGANIC GRAPES CULTIVATED IN MURFATLAR VITICULTURAL CENTRE	
Victoria ARTEM ^{1,2} , Arina Oana ANTOCE ^{*1} , Ioan NAMOLOSANU ¹ , Aurora RANCA ² , Anamaria PETRESCU ^{1,2}	476
RESPONSE OF FLORINA APPLE TREES TO FOLIAR APPLICATIONS OF FERTILIZERS	
Valerian BALAN [*] , Sergiu VĂMĂȘESCU, Petru BALAN	477
CROWN FORMATION ON CHERRY TREES AFTER THE SYSTEM „NATURAL CROWN IMPROVEMENT WITH REDUCED VOLUME”	
Valerian BALAN [*] , Igor IVANOV	478
WILD MUSTARD (<i>SINAPIS ARVENSIS</i> L.) AND CORN POPPY (<i>PAPAVER RHOEAS</i> L.) COMPETITION WITH FOUR PEA VARIETIES CULTIVATED FOLLOWING CONVENTIONAL OR ORGANIC FARMING PRACTICES	
Dimitrios BILALIS ^{1*} , Anestis KARKANIS ² , Ilias TRAVLOS ¹ , Andreas ANTONIADIS ¹ , Georgia NTATSI ¹ , Penelope BEBELI ¹ , Dimitrios SAVVAS ¹	479
THE ASSESSMENT OF THE MAIN CLIMATIC CONDITIONS IN NORTH-WEST OF ROMANIA FOR VITICULTURE (1991-2013)	

Florin Dumitru BORA ^{1*} , Tiberia Ioana POP ¹ , Claudiu Ion BUNEA ¹ , Anca Cristina BABEŞ ¹ , Delia Elena URCAN ¹ , Ștefania BALEA ¹ , Daniela POPESCU ² , Maria COMŞA ² , Maria ILIESCU ² , Nastasia POP ^{1*}	480
EFFECTS OF SALT ON SEED GERMINATION AND SEEDLING GROWTH OF THREE PORTULACA SPECIES	
Orsolya BORSAI ^{1,2} , Mohamad AL HASSAN ² , Monica BOSCAIU ³ , Oscar VICENTE ^{2*} , Adriana SESTRAS ¹ , Radu SESTRAS ¹	481
MOLECULAR CHARACTERIZATION OF SCARLET AND GBOMA EGGPLANTS BASED ON SINGLE NUCLEOTIDE POLYMORPHIMS	
Dionís BORRÀS, Mariola PLAZAS, Isabel ANDÚJAR, Pietro GRAMAZIO, Francisco Javier HERRAIZ, Jaime PROHENS, and Santiago VILANOVA*	482
THE EFFECT OF FERTILIZATION ON THE LEVEL AND YIELD QUALITY OF "CARISMA" CHERRY TYPE TOMATO PRODUCTION	
Floarea BURNICHI ^{1*} , Constantin VLAD ¹ , Carmen-Gabriela STRUGARIU ¹	483
THE INFLUENCE OF THE INTERACTIONS OF SEVERAL FACTORS UPON THE PRODUCTION OF DIRECLTY SOWN ONION CROP IN MIHAI VITEAZU AREA, CLUJ COUNTY	
Felicia Susana BUTUZA BUMB*, Emil LUCA, Enikő LACZI.....	484
BEHAVIOUR DURING THE FIRST YEARS AFTER PLANTING OF SOME NEW CHERRY TREE CULTIVARS IN THE PEDO-CLIMATIC CONDITIONS OF DOBROGEA	
Ion CAPLAN ¹ , Gheorghe LAMURANU ¹ , Constanta ALEXE ^{2*}	485
COMPARATIVE ANALYSIS OF THE ANTIOXIDANT RESPONSE TO SALT STRESS IN INULA CRITHMOIDES AND DITTRICHIA VIScosa	
Juliana CHAURA ^{1,3} , Mohamad AL HASSAN ¹ , Enrico DANISO ^{1,4} , Oscar VICENTE ¹ and Monica BOSCAIU ^{2*}	486
DETERMINATION OF SUITABLE AREAS FOR VINE CULTIVATION IN NIĞDE-BOR WITH LAND USE PLANNING	
Nuray ÇİÇEK ATİKMEN ^{1*} , Nevin TOPRAK ² , Emine ARSLAN ³ , Türkân Naz ÜNSAL ² and Nihal ERDEM ²	487
STUDIES OF SOME PHYSICAL-CHEMICAL CHARACTERS OF SOME TABLE GRAPES IN IASI VINEYARD	
Lucia Cintia COLIBABA ¹ , Liliana ROTARU ^{1*} , Razvan FILIMON ²	488
THE BIOLOGICAL DECLINE OF THE VINE CAUSED BY THE PHOMOPSIS VITICOLA PATHOGEN IN BLAJ WINE-GROWING CENTER	
Maria COMŞA, Liliana TOMOIAGĂ, Daniela POPESCU, Maria ILIESCU and Cristian CRISTEA	489
THE BIOLOGICAL DECLINE OF THE VINE CAUSED BY THE ESCA PATHOGENIC COMPLEX IN BLAJ WINE-GROWING CENTER	
Maria COMŞA, Liliana TOMOIAGĂ, Daniela POPESCU, Maria ILIESCU and Cristian CRISTEA	490
THE EFFECT OF ORGANIC AND INORGANIC FERTILIZATION OF LETTUCE GROWN IN NFT SYSTEM	
Elena Maria DRĂGHICI ^{1*} and Ionut Ovidiu JERCA ¹	491

TILLAGE PRACTICES IN THE CONTEXT OF CLIMATE CHANGE AND A SUSTAINABLE VITICULTURE

Alin DOBREI^{1*}, Alina DOBREI¹, Florin SALA² and Eleonora NISTOR¹ 492
RESEARCHES ON THE BEHAVIOUR OF CERTAIN GENOTYPES OF *CITRULLUS LANATUS* (THUNB.) MANFS. AT THE THERMIC AND HYDRIC STRESS CONDITIONS

Maria DUMITRU¹, Gicuta SBIRCIOG², Iuliana MANDRU² and Alina BUZATU^{2*} 493
INTENDITY HETEROSIS EFFECT IN SGUASH *CUCURBITA PEPO* L. CONV. *GIROMONTIA* ALEF

Maria DUMITRU¹, Gicuta SBIRCIOG², Iuliana MANDRU² and Alina BUZATU^{2*} 494
QUALITATIVE EVALUATION OF GRAPE POMACE, AS A SOURCE OF BIOACTIVE COMPOUNDS

Lidia FICIU^{1*}, Adrian SERDINESCU¹, Marian ION¹ and Elena BRINDUSE¹ 495
DROUGHT TOLERANCE AMONG ACCESSIONS OF EGGPLANT AND RELATED SPECIES

Ana FITA^{1*}, Fabrizio FIORUCI¹, Mariola PLAZAS¹, Adrián RODRIGUEZ-BURRUEZO¹ and Jaime PROHENS¹ 496

OBJECT ORIENTED IMAGE ANALYSIS IN REMOTE SENSING OF FOREST AND VINEYARD AREAS

Miro GOVEDARICA¹, Aleksandar RISTIĆ^{1*}, Dušan JOVANOVIĆ¹, Mihai HERBEI², Florin SALA³ 497

FEEDING BEHAVIOUR OF *DIABROTICA VIRGIFERA VIRGIFERA* ADULTS ON CORN CROPS

Ioana GROZEA^{1*}, Ramona STEF¹, Ana Maria VIRTEIU¹, Levente MOLNAR¹, Alin CARABET¹, Carmen PUJA², Ionela DOBRIN³ 498

VOLATILE FRACTION OF FOOL'S WATERCRESS (*APIUM NODIFLORUM*) AS AN NEW SPICE HERB AND INGREDIENT FOR SALADS

Carla GUIJARRO-REAL¹, Ana M. RIBES-MOYA¹, Ana FITA¹, Jaime PROHENS¹, Adrián RODRÍGUEZ-BURRUEZO^{1*} 499

FRUIT QUALITY TRAITS OF PEPINO (*SOLANUM MURICATUM*) CLONES

Francisco Javier HERRAIZ¹, Santiago VILANOVA¹, Pietro GRAMAZIO¹, Mariola PLAZAS¹, Isabel ANDÚJAR¹, María Dolores RAIGÓN², María Dolores GARCÍA-MARTÍNEZ², and Jaime PROHENS^{1*} 500

THE EFFECT OF HYDRATION ON THE QUALITY OF ROOTSTOCK CUTTINGS

Maria ILIESCU, Maria COMŞA*, Daniela POPESCU, Liliana TOMOIAGĂ 501

THE QUALITY OF GRAPES AND THE SOIL PARTICULARITIES IN VITICULTURAL CENTER BLAJ

Maria ILIESCU¹, Daniela POPESCU¹, Maria COMŞA¹, Marius VASIU² and Nastasia POP^{2*} 502

RESULTS REGARDING THE PHENOTYPIC CORRELATIONS BETWEEN QUANTITATIVE CHARACTERS OF INTEREST IN IMPROVING *GLADIOLUS HYBRIDUS*

Denisa Andrea JUCAN (HORT), Maria CANTOR, Adrian ZAHARIA, Erzsebet BUTA 503

TOMATO LEAF CURL VIRUS RESISTANCE IN TOMATO (*SOLANUM LYCOPERSICUM*) HYBRIDS GROWN IN THE RAINY SEASON UNDER NORTH INDIAN CONDITIONS

Prashant KAUSHIK^{1*} M.S. DHALIWAL² and Jaime PROHENS¹ 504

SURVEY ABOUT THE MOST IMPORTANT CCP OF THE AGRICULTURAL CERTIFICATION SYSTEMS IN GREECE

Aristidis KONSTANTAS^{1*}, Dimitrios BILALIS¹, Andreas KARAMANOS¹, Nikolaos MPEOPOYLOS² 505

GERMPLASM EVALUATION FOR YIELD TRAITS IN SPONGE GOURD (*LUCCA CYLINDRICA* (L.) M. ROEM.)

Abhijeet KUMAR¹, Prashant KAUSHIK^{2*} and Jaime PROHENS² 506

PLANTING DATE AND HARVESTING METHOD INFLUENCE ON THE YIELD OF MIZUNA

Enikő LACZI*, Emil LUCA, Adelina DUMITRAŞ, Felicia BUTUZA BUMB and Păunița BOANĂ..... 507

THE POSSIBILITY OF INTRODUCING INTO CULTIVATION OF NEW SWEET PEPPER HYBRIDS (*CAPSICUM ANNUM*)

Viorica LAGUNOVSKI-LUCHIAN^{1*}, Mona NICOLESCU¹, and Valeria TUDOR² 508

RESEARCHES REGARDING THE SUITABILITY OF SOME APPLE CULTIVARS FOR PROCESSING AS CLEAR JUICE

Vasile LAZĂR, Rodica SIMĂ*, Tincuța GOCAN, Alexandru MARIAN..... 509

INVESTIGATION OF THE VISUAL EFFECTS OF URBAN LANDSCAPES PROVIDED BY THE PRESENCE OF FRUIT TREES

Tabita-Teodora LISANDRU^{1*}, Viorel MITRE¹, Adelina DUMITRAŞ¹, Andreea TRIPON¹, Monica PAL¹, Orsolya BORSAI¹ 510

THE INFLUENCE OF USING CHEMICAL SUBSTANCES IN POMICOLE AGRO-ECOYSTEMS ON CERTAIN ENVIRONMENTAL FACTORS

Silvia MAGHEAR 511

RESPONSE OF SOME PLUM CULTIVARS TO BACTERIAL DISEASES CAUSED BY *XANTHOMONAS CAMPESTRIS* PV. *PRUNI* (SMITH) DOWSON AND *PSEUDOMONAS SYRINGAE* PV. *MORSPRUNORUM* DYE ET WILKIE, IN CONDITIONS OF NATURAL INFECTION

Ioana MITRE Jr.^{1*}, Viorel MITRE¹, Andreea TRIPON¹, Monica PAL¹, Erzsebet BUTA¹, Radu SESTRUŞAŞ* 512

SOIL COMPACTION FOLLOWING SKIDDING OPERATIONS IN MOUNTAINOUS REGIONS OF ROMANIA. CASE STUDIES

Horațiu MUNTEANU¹, Andrei APĂFĂIAN¹ 513

RESEARCH ON THE AUXOLOGICAL PARAMETERS OF THE CROWNS OF THE BLACK POPLAR TREES (*POPULUS NIGRA* L.) LOCATED INTO ALIGNMENTS

Elena – Camelia MUŞAT^{1*}, Arcadie CIUBOTARU¹ and George MUŞAT² 514

CURRENT DEVELOPMENT OF THE FORESTS WITH AUTO ROADS. CASE OF FIVE ROMANIAN FOREST DISTRICTS

Elena – Camelia MUŞAT^{1*}, Crissanta Cătălina ANTONIADE¹, Jean VIŞAN¹, Horațiu Bogdan MUNTEANU¹, George MUŞAT² and Valentina Doina CIOBANU¹ 515

INFLUENCE OF MAHALEB AND GISELA 5 ROOTSTOCKS ON THE GROWTH OF BIGARREAU BURLAT SWEET CHERRY CULTIVAR

Monica PAL^{1*}, Viorel MITRE¹, Andreea TRIPON¹, Mihai LAZAR¹, Tabita LISANDRU¹ ... 516

METHODS FOR HIGH THROUGHPUT ROOT PHENOTYPING IN PEPPER

Leandro PEREIRA-DIAS¹, Carla GUIJARRO-REAL, Ana M. RIBES-MOYA¹, Adrián RODRÍGUEZ-BURRUEZO¹, Ana FITA¹* 517

THE INFLUENCE OF TYPE OF SUBSTRATE ON THE PRODUCTION OF CUCUMBERS IN UNCONVENTIONAL SYSTEM

Sorin PETRE ¹ , Maria PELE ¹ , Elena Maria DRĂGHICI ^{2*}	518
WINES ENRICHED IN ANTIOXIDANTS: OPTIMISATION OF MACERATION-FERMENTATION PROCESS	
Liliana PIRCALABU ^{1*} , Aurelia TUDORACHE ¹ , Roxana PORUMB ¹ , Elena BRINDUSE ¹ , Marian ION ¹	519
IMPROVING THE ANTIOXIDANT CAPACITY OF FETEASCA NEAGRA WINES BY USING ARONIA MACERATE	
Liliana PIRCALABU ^{1*} , Aurelia TUDORACHE ¹ , Roxana PORUMB ¹ , Elena BRINDUSE ¹ , Marian ION ¹	520
THE EFFECT OF GREEN WORKS ON VINE ROOTSTOCK QUALITY GROWN IN TÂRNAVE VINEYARDS	
Daniela POPESCU ¹ , Maria ILIESCU ¹ , Maria COMŞA ¹ , Paul CRISTEA ² and Nastasia POP ^{2*}	521
ASSESSMENT OF POLLEN VIABILITY AND GERMINATION RATE OF SOME PEAR (<i>PYRUS SSP. L.</i>) CULTIVARS GROWN IN SUPER-INTENSIVE CULTURE SYSTEM IN ROMANIA	
Melinda PUSKÁS ^{1*} , Radu SESTRAS ¹ , Henryk FLACHOWSKY ²	522
GROWING ORGANICALLY TWO GRAPES VARIETIES IN CONDITIONS OF THE MURFATLAR VINEYARD	
Aurora RANCA, Anamaria PETRESCU, Victoria ARTEM.....	523
EFFECT OF RIPENING AND GROWING CONDITIONS ON THE CONTENT IN ASCORBIC ACID IN PAPRIKA LANDRACES	
Ana M. RIBES-MOYA ¹ , Ana FITA ¹ , M. Dolores RAIGÓN ² , Adrián RODRÍGUEZ-BURRUEZO ^{1*}	524
COMPARATIVE STUDY OF THE VOLATILE FRACTION OF ANDALUSIAN TOMATO LANDRACES UNDER ORGANIC PRACTICES	
Adrián RODRÍGUEZ-BURRUEZO ^{1*} , Estela MORENO-PERIS ¹ , Ana M. RIBES-MOYA ¹ , Carla GUIJARRO-REAL ¹ , Ana FITA ¹	525
OPTIMIZATION OF <i>IN VITRO</i> PROTOCOLS FOR THE ISOLATION AND REGENERATION OF IMMATURE EMBRYOS FROM COMMON EGGPLANT (<i>SOLANUM MELOGENA</i>) AND SCARLET (<i>S. AETHIOPICUM</i>) AND GBOMA (<i>S. MACROCARPON</i>) EGGPLANTS	
Adrián RODRÍGUEZ-BURRUEZO ^{1*} , Miquel MARTÍNEZ-BUSÓ ¹ , Juan Pablo MANZUR ¹ , Jaime PROHENS ¹ , Ana FITA ¹	526
CORRELATION BETWEEN THE FRUIT POSITION ON THE PLANT AND SEEDS QUALITY INDICES OF GREEN PEPPERS (<i>CAPSICUM ANNUUM L.</i>)	
Gicuta SBIRCIOG	527
EFFECT OF SALT TOLERANT EDAPHIC MICROORGANISMS ON TOMATO LOCAL LANDRACES DURING GERMINATION IN OSMOTIC STRESS CONDITIONS	
Brigitta SCHMIDT ^{1*} Ionel SAMFIRA ¹ and Radu ȘUMĂLAN ¹	528
CHARACTERIZATION OF A COLLECTION OF COMMERCIAL VARIETIES OF CUCUMBER, MELON AND ZUCCHINI AGAINST MECHANICAL INOCULATION OF TOMATO LEAF CURL NEW DELHI VIRUS (TOLCNDV)	
Salvador SOLER ^{1*} , Maria R. FIGÀS ¹ , Dionís BORRÀS ¹ , and Jaime PROHENS ¹	529
THE INFLUENCE OF SOME FOLIAR FERTILIZERS ON TOMATO YIELD AND FRUIT QUALITY	
Gabriela SOVAREL ¹⁾ , M. COSTACHE ¹⁾ , Mihaela CROITORU ²⁾	530

BEHAVIOR OF SOME EGGPLANT CULTIVARS TO THE SOIL BORNE PATHOGENS ATTACK IN THE GREENHOUSES

Gabriela SOVAREL, M. COSTACHE 531

RESEARCH REGARDING OF TECHNOLOGICAL PARAMETERS OF SOME TABLE GRAPES VARIETIES IN THE EXPERIMENTAL FIELD U.S.A.M.V. BUCHAREST

Marinela STROE^{1*}, Carmen BEJAN² 532

DNA EXTRACTION AND QUANTIFICATION FROM TRUNK CAMBIUM OF EUROPEAN BEECH (*FAGUS SYLVATICA* L.) FROM DIFFERENT PROVENANCE REGIONS IN ROMANIA

Anna-Mária SZÁSZ-LEN^{1,2}, Alina TRUȚA^{2*}, Liviu HOLONEC², Doru PAMFIL¹ 533

COMPARING DNA EXTRACTION METHODS FROM EUROPEAN BEECH LEAVES FROM DIFFERENT PROVENANCE REGIONS IN ROMANIA

Anna-Mária SZÁSZ-LEN^{1,2}, Florin Alexandru REBREAN^{1,2}, Alina TRUȚA², Liviu HOLONEC^{2*}, Doru PAMFIL¹ 534

INFLUENCE OF THE TECHNOLOGICAL INPUTS ON THE RESILIENCE CAPACITY OF THE VITICULTURAL ECOSYSTEMS

Adrian ȘERDINESCU^{1*}, Marian ION¹ and Liliana PÎRCĂLABU¹ 535

STUDIES ON THE ASSESSMENT OF THE POSITIVE IMPACT OF THE IMPLEMENTATION OF MULTIFUNCTIONAL PROTECTION AREAS FAVORABLE FOR AGRO-BIODIVERSITY OF THE VINEYARD ECOSYSTEM

Liliana TOMOIAGĂ, Maria COMŞA, Daniela POPESCU, Maria ILIESCU 536

MONITORING OF INVASIVE SPECIES *DROSOPHILA MELANOGASTER* AND *DROSOPHILA SUZUKII*, A SOLUTION FOR OPTIMIZING THE CONTROL STRATEGY AGAINST THE ACID ROT OF GRAPES

Liliana TOMOIAGĂ*, Florin ȘERBU, Maria LUPEAN, Dorina MAŞA 537

THISTLES OF GREECE AND THEIR POTENTIAL VALUE AS MEDICINAL CROPS: STUDY ON THEIR FIRST GROWTH

Ilias TRAVLOS*, Ioannis E. ROUSSIS, Nikos KARAMPASIS, Ioanna TABAXI, Dimitrios PAPADIMITRIOU, Nikolaos KATSENIOS and Dimitrios BILALIS 538

INFLUENCE OF THINNING ON FRUIT WEIGHT (GR) AND DIAMETER (MM)

Andreea Flavia TRIPON^{1*}, Viorel MITRE¹, Ioana MITRE¹, Ioana MITRE Jr.¹, Tabita LISANDRU¹, and Monica PAL¹ 539

CORRELATIONS BETWEEN THE QUALITATIVE AND QUANTITATIVE CHARACTERS OF SOME PLUM VARIETES, AFTER CHEMICAL THINNING

Andreea Flavia TRIPON^{1*}, Viorel MITRE¹, Ioana MITRE¹, Ioana MITRE jr.¹, and Monica PAL¹ 540

STUDY OF POST-HARVEST STORAGE FOR VARIETY APRICOTS IN THE FAMILY FARMS

Marian VINTILA*, Florin-Adrian NICULESCU and Daniela VERINGA 541

NEW BASIL (*OCIMUM BASILICUM*) GENOTYPES IMPROVED AT V.R.D.S. BUZĂU

Costel VÎNĂTORU¹, Bianca ZAMFIR¹, Camelia BRATU¹, Constantin MANOLACHE², Luminita CĂRSTEÀ³ 542

ACHIEVEMENTS IN EGGPLANT (*SOLANUM MELONGENA*) BREEDING AT V.R.D.S. BUZĂU

Costel VÎNĂTORU¹, Bianca ZAMFIR¹, Camelia BRATU¹, Constantin MANOLACHE², Marian VINTILĂ³ 543

BIOMASS CHANGES REGISTERED AT TWO *SEDUM* SPECIES UNDER SOME ECOLOGICAL STRESS CONDITIONS

Adrian ZAHARIA, Denisa Andreea JUCAN (HORT), Erzsebet BUTA 544

PROPERTIES OF *SEDUM* SPECIES APPRECIATED FOR VEGETATED ROOFTOP SYSTEMS – A REVIEW

Adrian ZAHARIA, Denisa Andreea JUCAN (HORT), Erzsebet BUTA, Ioana CONȚIU 545

SECTION 5: ECONOMICS AND RURAL DEVELOPMENT

IMPORTANCE OF INTRINSIC AND EXTRINSIC ATTRIBUTES OF CHEESE DURING THE BUYING DECISION PROCESS

Gabriela CHICIUDEAN^{1*}, Sabina FUNAR¹ and Iulia MUREȘAN¹ 546

EUROPEAN AND ROMANIAN TRADE IN VEGETABLES AND FRUIT – EFFECTS OF THE RUSSIAN EMBARGO

Camelia GAVRILESCU^{1*} 547

SENSORY ANALYSIS OF DEHYDRATED PLUMS AND PEARS

Cristina Bianca POCOL¹, Laura STAN^{2*} and Călin MOLDOVAN-TESELIOS³ 548

ANALYSIS OF SEEDS BUYING BEHAVIOUR OF CUSTOMERS WITH LARGE SCALE AGRICULTURAL EXPLOATATIONS

Bogdan POP^{1*} 549

SECTION 6-7: ANIMAL SCIENCE AND BIOTECHNOLOGIES

USING SERS TO ANALYSE THE NEW RARE-EARTH -ACENOCOUMAROL COMPLEXES

Luisa ANDRONIE¹, Vioara MIRESAN^{1*}, Ioana POP², Camelia RADUCU¹, Aurelia COROIAN¹, Anca ROTARU¹, Cristian COROIAN¹, Andrada IHUT¹, Irena KRESTOVA² ... 550

COLOSTRUM FROM DIFFERENT ANIMAL SPECIES – A PRODUCT FOR HEALTH STATUS ENHANCEMENT

Mirela AHMADI¹, Oana BOLDURA¹, Cornelia MILOVANOV², Dorel DRONCA³, Călin MIRCU², Ioan HUȚU², Sorina POPESCU⁴ and Camelia TULCAN¹ 551

EVALUATION OF THE PHYTOREMEDIATION CAPACITY OF OREGANO, IN AN INTEGRATED AQUAPONIC SYSTEM, BY APPLYING THE L.E.C.A. SUBSTRATE TECHNIQUE

Alexandru-Cristian BANDI^{1*}, Victor CRISTEA¹, Lorena DEDIU¹, Paul LUPOAE², Ștefan Mihai PETREA¹ and Marian Tiberiu COADĂ¹ 552

EFFECT OF SYNCHRONIZATION AND ARTIFICIAL INSEMINATION ON REPRODUCTIVE PERFORMANCE AND PRODUCTIVITY OF SHEEP IN THE SEMI-ARID REGION OF ALGERIA

Farida BELKASMI¹, Toufik MADANI², Charafedine MOUFFOK², Lounis SEMARA³ 553

NUTRITIVE TRAITS AND THE USE OF GUAR MEAL IN THE NUTRITION OF FARM ANIMALS

Mihai BENȚEA^{1*}, Aurel ȘARA¹ 554

THE ANALYSIS OF MOLECULAR DYNAMICS OF THE PLANT DEFENSIN NAD1

Marian BUTU ¹ , Steliana RODINO ^{1,2,*} , Adrian MATEI ² , Petruța PETRACHE ² , Georgeta FIDLER ¹	555
SEM STUDY OF HAIR CUTICLE IN SOME CANIDAE BREEDS	
Mirela E. CADAR*	556
STUDENTS INVOLVED IN ANIMAL BREEDING	
Mirela E CADAR*, Anamaria VÂTCĂ, Ilie CORNIOU, Ancuța ROTARU, Ionel TOADER	557
MERISTIC AND MORPHOMETRIC CHARACTERISTICS OF SPIRLIN, <i>ALBURNOIDES BIPUNCTATUS</i> BLOCH 1782 (ACTINOPTERYGII: CYPRINIDAE) OF THE LETCA AREA – SOMEŞ RIVER	
Daniel COCAN ¹ , Florentina POPESCU ¹ , Vioara MIREŞAN ^{1*}	558
THE USE OF DIRECT GENETIC MARKERS K-CASEIN AND DGAT1 INVOLVED IN MILK PRODUCTION CHARACTERISTICS	
Viorica COŞIER ¹ , Emil COMŞA ¹ , Radu CONSTANTINESCU ^{1*}	559
COMPARATIVE PHENOL BIODEGRADATION STUDIES OF SPECIFIC BIOREMEDIATION STRAINS AND INDIGENOUS HYDROCARBON TOLERANT BACTERIA ISOLATED FROM PETROLEUM CONTAMINATED SOIL	
Adriana CRISTE ^{1*} , Rodica POP ² , Călin CHIOREAN ³ , Mihai MITREA ³	560
THE EFFECT OF SEA BUCKTHORN AND VITAMIN E ON THE WELFARE OF <i>ACIPENSER STELLATUS</i> (PALLAS, 1771) REARED IN A RECIRCULATING AQUACULTURE SYSTEM	
Oana-Georgiana (VARLAN) DOROJAN*, Victor CRISTEA*, Mirela CREȚU, Angelica DOCAN, Lorena DEDIU and Iulia Rodica GRECU	561
GRASSLANDS OF THE APUSENI MOUNTAINS, STUDIES AND RESEARCH (LITERATURE REVIEW)	
Bogdan Ionuț FĂGĂDAR, Gheorghe MIHAI, Nicușor SIMA*, Adela Lăcrimioara BOTIȘ, Doru Cristian CRISTE, Iulia PLEŞA.....	562
ANALYSES OF THE CHEMICAL COMPOSITION OF EXTRACTS OF BEE BROOD AND ADULT BEES	
Maria POJAR-FENESAN ^{1*} , Ana BALEA ¹ , Irina CIOTLAUS ¹ and Mirela MICLEAN ²	563
MOLECULAR IDENTIFICATION OF FUNGAL ISOLATES FROM TEXTILE WASTEWATER BY ITS-RFLP METHOD	
Ovidiu IORDACHE ^{1*} , Calina Petruța CORNEA ¹ , Camelia DIGUTA ¹ , Steliana RODINO ¹ , Ioana IONESCU ¹ , Adrian MATEI ¹ , Iuliana DUMITRESCU ²	564
EJACULATE QUALITY IS INFLUENCED BY BOAR BEHAVIOUR AT THE TIME OF COLLECTION	
Vasile MICLEA ^{1*} , Ilona GYONGY ² , Ileana MICLEA ¹ , Marius ZĂHAN ¹	565
COLOR TRANSMISSION IN THE CASE OF CROSS BREED SHEEP BELONGING TO THE BLACK KARAKUL VARIETY	
Ionică NECHIFOR ^{1,2} , Constantin PASCAL ^{1*} , Marian FLOREA ^{1,2}	566
HERBAL PIGMENTS FROM <i>CALENDULA OFFICINALIS</i> L. AS ANTIOXIDANTS IN FOOD, PHARMACEUTICAL AND COSMETIC PRODUCTS	
Cornelia NICHITA ^{1*} , Georgeta NEAGU ¹ , Ana CUCU ²	567
ANTIOXIDATIVE PROPERTIES OF <i>PLANTAGO LANCEOLATA</i> L. EXTACTS EVALUATED BY CHEMILUMINESCENCE METHOD	
Cornelia NICHITA ^{1*} , Georgeta NEAGU ¹ , Virginia VULTURESCU ¹ Ana CUCU ²	568
THE STUDY OF THE MAIN MILK PRODUCTION TRAITS OF RED HOLSTEIN BREED, RAISED IN SALAJ COUNTY	

Grigore ONACIU ¹ , Eugen JURCO ^{1*} and Octavian NEGREA ²	569
DETERMINING THE CORRELATION BETWEEN SPECIFIC CHARACTERS OF BUCOVINA SHEPHERD DOGS	
Constantin PASCAL ^{1*} , Constantin Viorel GASPAR ²	570
TEMPORARY GRASSLAND – CONCEPT, GRASS AND LEGUME MIXTURES, PRODUCTIVITY AND QUALITY	
Julia-Manuela PLESA (MEDREA) ¹ , Gheorghe MIHAI ¹ , Nicusor SIMA ^{1*} , Rodica SIMA ¹ , Dorin PLESA ¹ , Doru CRISTE ¹ , Adela BOTIS ¹ , Bogdan FAGADAR ¹	571
THE IMPORTANCE OF GENETIC EVALUATION OF RED DEER (<i>CERVUS ELAPHUS</i>) POPULATIONS FROM CARPATHIAN BASIN IN THE CONSERVATION OF BIG GAME SPECIES	
Horea E. PETREHUS ^{1*} , Mihai C. TIMBUS ² , Augustin VLAIC ¹	572
TOPOGRAPHY OF THE INTERNAL ORGANS OF THE BROWN BULLHEAD, <i>AMEIURUS NEBULOSUS</i> LESUEUR, 1819 (ACTINOPTERYGII: ICTLURIDAE)	
Florentina POPESCU ¹ , Călin LAȚIU ¹ , Daniel COCAN ¹ , Vioara MIREȘAN ^{1*} ,	573
THE LINK BETWEEN INNOVATIVENESS AND MARKET ORIENTATION IN BEEKEEPING ENTERPRISES	
Anca POPOVICI ^{1*} , Liviu MĂRGHITAŞ ¹ , Daniel DEZMIREAN ¹ , Marioara ILEA ²	574
GROWTH AND PRODUCTIVITY OF VARIOUS <i>CAPSICUM</i> SPECIES CULTIVATED IN SOUTHERN ROMANIA	
Roxana-Mădălina STOICA, Narcisa BĂBEANU, Ovidiu POPA*	575
THE EFFECTS OF GUAR MEAL ON PRODUCTION PERFORMANCES IN BROILER CHICKEN	
Aurel ȘARA ^{1*} , Mihai BENȚEA ¹	576
BIODEGRADATION STUDY OF SOME FOOD PACKAGING BIOPOLYMERS BASED ON PVA	
Elisabeta Elena TĂNASE ^{1*} , Mona Elena POPA ¹ , Maria RÂPĂ ² and Ovidiu POPA ¹	577
WATER HOLDING CAPACITY OF RABBIT MEAT (BELGIAN GIANT BREED)	
Gabriela TĂRNĂUCEANU (FRUNZĂ)*, Cecilia POP	578
THE ASH CONTENT OF THE MAIN MUSCLE GROUPS AND EDIBLE OFFAL COLLECTED FROM HARES (<i>LEPUS EUROPAEUS PALLAS</i>)	
Gabriela TĂRNĂUCEANU (FRUNZĂ)*, Cecilia POP, Paul Cornelius BOIŞTEANU	579
STUDIES REGARDING THE BIOLOGICAL PARAMETERS OF AZOV SHAD (<i>ALOSA TANAICA</i>, GRIMM, 1901) FROM ROMANIAN BLACK SEA COAST	
George TIGANOV ^{1,2*} , Lucian OPREA ^{2*} , Madalina GALATCHI ¹ , Valodia MAXIMOV ¹	580
FISHERY DYNAMICS OF DANUBE SHAD (<i>ALOSA IMMACULATA</i>, BENNETT, 1835) ON THE ROMANIAN BLACK SEA COAST	
George TIGANOV ^{1,2*} , Lucian OPREA ^{2*} , Valodia MAXIMOV ¹ , Cristian Sorin DANIOLOV ¹	581
AMERICAN BISON (<i>BISON BISON</i>) IN FARMS: A SURVEY OF SLAUGHTER PRACTICES	
Hilde VERVAECKE*, Stef AERTS.....	582

SECTION 8: VETERINARY MEDICINE - FUNDAMENTAL AND PRECLINICAL SCIENCES

DEVELOPMENT AND VALIDATION TRIALS OF POLYVALENT MASTITIS VACCINES USING LOCAL STRAINS ISOLATED FROM DIFFERENT REGIONS OF TURKEY

Alper ÇİFTCI^{1*}, Hüseyin Cahit BAYBURS² 583

VAGOCOCCUS SALMONINARUM, A CAUSATIVE AGENT OF DISEASE IN RAINBOW TROUT (ONCORHYNCHUS MYKISS, WALBAUM) BROODSTOCKS IN THE AEGEAN REGION OF TURKEY

Tansel TANRIKUL¹, Meriç Lütfi AVSEVER², Ertan Emek ONUK^{3*} and Behire İşıl DİDİNEN 584

YERSINIA KRISTENSENII INFECTION IN CAPRA AEGAGRUS HIRCUS

Elena ROTARU¹, Stelian BARAITAREANU^{2*} and Doina DANES² 585

CONTRIBUTION TO THE STUDY OF THERAPEUTIC FAILURES IN CLINICAL BOVINE MASTITIS WITH BACTERIAL ETIOLOGIES IN CENTRAL REGION OF ALGERIA

Amine MSELA*, Amar AIT-BELKACEM, Madjid SADI, Hamza KHALED and Mohammed BACHIR-PACHA 586

RESEARCH OF SALMONELLA spp. MULTI-RESISTANT IN BOVINE FECES FROM CENTRAL REGION OF ALGERIA

Amine MSELA*, Hamza KHALED and Mohammed BACHIR-PACHA 587

HISTOPATHOLOGICAL ALTERATIONS OF PERMETHRIN ON KIDNEY AND LIVER OF RATS

Dilek GUVENC¹, Yonca Betil KABAK², M. Yavuz GULBAHAR², Tolga GUVENC^{2*} 588

RELATIONSHIP BETWEEN DAILY RUMINATION TIME, PHYSICAL ACTIVITY, ESTRUS AND METABOLIC CHANGES IN DAIRY COWS

Răzvan Nicolae MĂLĂNCUŞ^{1*} and Cristina Maria MĂLĂNCUŞ² 589

COMPARATIVE ANALYSIS OF FAT AND PROTEIN CONTENT IN GOATS MILK FROM ALPINE AND CARPATHIAN

Alina NĂSĂLEAN, Cristina ȘTEFĂNUȚ, Emöke PALL, Laurențiu OGNEAN 590

MORPHOLOGICAL DESCRIPTION OF DIGESTIVE TRACT IN GOLDEN JACKAL (*CANIS AUREUS MOREOTICUS*)

Florin STAN 591

CONTRAST CT EXAMINATION FOR ASSESSMENT OF INTESTINAL BLEEDING IN POLYTRAUMATIZED CAT- CASE REPORT

Radu LĂCĂTUŞ¹, Robert Cristian PURDOIU^{1*}, Alin ORĂŞAN², Filip ARDELEAN³, Ileana MATEI³, Ionel PAPUC¹ 592

ASSESMENT OF THE VASCULARIZATION OF AN INGUINAL MASS – A CASE REPORT

Alexandra IRIMIE¹, Alexandru Raul POP², Robert Cristian PURDOIU³, Radu LĂCĂTUŞ³, Cornel CĂTOI¹ 593

THE INFLUENCE OF CORN FRUCTOSE SYRUP BASED SOLID FOOD SUPPLEMENTS, DURING THE INACTIVE (WINTER) SEASON, UPON THE EVOLUTION OF MAJOR BACTERIAL DISEASES IN BEES

Cristina MATEESCU¹, Vasilică SAVU¹, Agripina ȘAPCALIU¹, Ion RĂDOI², Carmen NEGOIȚĂ² 594

COMPARATIVE METHODS TO IDENTIFY FELINE CORONAVIRUSES

Cristina HORHOGEA^{1*} 595

**RELEVANCE OF MYELOGRAPHY IN DIAGNOSIS OF SUBARACHNOID HEMATOMA
IN A ROTTWEILER WITH TRAUMATIC CERVICAL SUBLUXATION – CASE REPORT**

Robert Cristian PURDOIU^{1*}, Radu LĂCĂTUŞ¹, Ciprian OBER², Cosmin PEŞTEAN², Ionel PAPUC¹ 596

**PRESENCE AND DISTRIBUTION OF THE VASCULARISATION OF AORTIC MEDIA IN
SOME MAMMALS**

Flavia RUXANDA¹, Aurel DAMIAN¹, Vasile RUS¹, Adrian GAL¹, Cristian MARTONOS¹,
Dalma CSIBI¹, Cristian RAȚIU² and Viorel MICLĂUŞ^{1*} 597

**CLINICAL AND LABORATORY INVESTIGATIONS CONCERNING THE BIOLOGICAL
EFFECTS OF A BOVINE MILK EXTRACT (LACTOSER) ON THE DEVELOPMENT OF A
WALKER 256 CARCINOMAS INOCULATED TO WINSTAR RATS**

Ioan MARCUS*, Alexandra Dreancă..... 598

HASSALL'S CORPUSCLES ASSESSMENT IN DOG

Vasile RUS¹, Adrian GAL¹, Flavia RUXANDA¹, Bianca BOŞCA², Cristian RAȚIU³, Viorel
MICLĂUŞ¹ 599

**QUANTIFICATION OF THE ANTITUMORAL EFFECT OF SOME PHARMACEUTICAL
NANOSYSTEMS IN C26 COLON CARCINOMA IN MICE**

Andras-Laszlo NAGY^{1*}, Alexandru-Flaviu TABARAN¹, Marian MIHAIU¹, Cornel CĂTOI¹,
Cosmina BOUARI¹, Manuela BANCIU², Adrian OROS¹ 600

**EPIDEMIOLOGICAL, CLINICAL AND PATHOLOGICAL FEATURES IN
ANTICOAGULANT RODENTICIDE TOXICOSIS IN DOGS: 66 CASES (2010-2015)**

Andras-Laszlo NAGY*, Alexandru-Flaviu TABARAN, Roland BLAJ, Cornel CĂTOI,
Alexandra POP, Adrian Florin GAL, Adrian OROS 601

**COMPARATIVE STUDY REGARDING SOME REPRODUCTIVE PARAMETERS AND
BIRTH WEIGHTS IN RUSTY TSIGAIA BREED AND IN CROSSING WITH BLANC DU
MASSIF CENTRAL**

Ioan PAŞCA, Adrian CÎMPEAN, Dana PUSTA¹, Mihai Marian BORZAN* 602

**SUSCEPTIBILITY TESTING OF SOME *CANDIDA SPP.* STRAINS TO KETOCONAZOLE
USING MIC STRIP TEST**

George Cosmin NADĂŞ, Nicodim FITĂ, Flore CHIRILĂ, Cosmina BOUARI, Sorin
RĂPUNTEAN 603

**STUDY ON THE WILD BOAR MEAT CONTAMINATION WITH PATHOGENIC AGENTS
INVOLVED IN FOODBORNE DISEASES**

Cristina RÎMBU¹, Eleonora GUGUIANU^{1*}, Ciprian BOTEZATU², Cătălin CARP CĂRARE¹,
Cristina HORHOGEA¹, Carmen RETU¹, Oana CIOCĂN¹, Andreea COZMA¹, Cătălina
SĂNDULEANU³ 604

**ASSESSMENT OF RESPIRATORY FUNCTION IN MITOCHONDRIA ISOLATED FROM
RAT KIDNEY CORTEX**

*Maria D. Dănilă^{1,2}, Andreea Privistirescu¹, Oana M. Duicu^{1,2}, Adrian Sturza^{1,2}, Lavinia
Noveanu^{1,2}, Danina M. Muntean^{1,2} 605

**EVALUATION OF SOME REPRODUCTIVE PARAMETERS OF TSURCANA SHEEP
CROSSED WITH BLANC DU MASSIF CENTRAL RAMS**

Mihai Marian BORZAN^{1*}, Adrian CÎMPEAN¹, Dana PUSTA, Ioan PAŞCA¹ 606

**FROM BENCH TO BEDSIDE: BIOETHICAL ASPECTS IN CLINICAL TRANSLATIONAL
RESEARCH**

Tony HANGAN¹, Dan NAVOLAN^{2*}, Diana BADIU¹, Simona VLADAREANU³, Radu
VLADAREANU⁴, Ovidiu NICODIN⁵, Bogdan PANAIT⁵, Sorin HOSTIUC⁶ 607

HUMAN EMBRYONIC STEM CELLS: TAILORING REVIEW TO BIOETHICAL CONCERN

- Dan NAVOLAN¹, Simona VLADAREANU^{2*}, Diana BADIU³, Radu VLADAREANU⁴,
Bogdan PANAITE⁵, Sorin HOSTIUC⁶, Tony HANGAN³ 608

BIOETHICAL ISSUES IN THE TRANSLATION OF KNOWLEDGE FROM ANIMALS TO HUMAN STUDIES: THE ANGIOTENSIN RECEPTORS EXAMPLE

- Irina RENTEA^{1,2}, Violeta-Ionela CHIRICA^{1,2}, Sorin HOSTIUC^{1,2}, Ioan MARCUS³ 609

BIOETHICAL APPROACHES AND RESPONSIBLE CONDUCT IN TRANSLATIONAL RESEARCH: A CASE STUDY ON DEVELOPING A CENTER OF EDUCATION AND RESEARCH IN BIOETHICS WITHIN THE LIFE SCIENCES AREA

- ¹Ioan MARCUS, Sorin HOSTIUC², Irina RENTEA², Ion COPOERU³, Corina CATANA¹,
Assya PASCALEV⁴, Tatjana GAZIBARA⁵, Maria ALUAS⁶ 610

SECTION 9: VETERINARY MEDICINE - CLINICAL SCIENCES

ISOLATION AND CHARACTERIZATION OF AMNIOTIC FLUID-DERIVED STEM CELLS

- Daria Maria POP^{1*}, Emoke PALL², Carmen Mihaela MIHU³ 611

Keywords. amniotic fluid, memesenchimal cells, pluripotency markers 611

RETINA EXAMINATION

- András DOBOS¹, Boglárka PENGŐ¹ 612

DETECTION OF BRUCELLA GENOME BY REAL TIME PCR IN THE MILK OF SMALL RUMINANTS IN THE WEST BANK

- Elena AWWAD^{1,2}, Mohammad FAARAJI³, Tamer ESSAWI³, Israr SABRI³ Kamel ADWAN⁴,
Issa RUMI², Assad MANSARA², Stelian BĂRĂITĂREANU¹, Maria Rodica GURĂU¹ and
Doina DANES¹ 613

CHARACTERISATION OF RABBIT HAEMORRHAGIC DISEASE VIRUS STRAINS ISOLATED IN ROMANIA

- Marius DAN^{1*}, Stelian BARAITAREANU², Alexandru Filip VLADIMIRESCU³ and Doina DANES² 614

BIODIVERSITY OF TICKS AND FLEAS OF DOGS IN THE WESTERN BALKANS – RESULTS OF PRELIMINARY EXAMINATIONS

- Ivan PAVLOVIĆ^{1*}, Dragan ROGOŽARSKI², Srđan JOVČEVSKI³, Ferenc CSORDÁS⁴,
Novalina MITROVIĆ⁵, Irina MIJATOVIĆ⁶, Dušan ĆIRKOVIĆ⁷, Stefan JOVČEVSKI³, Marko RISTIĆ⁸ 615

FIRST CLINICAL STRONGYLOIDESSTERCORALIS CASE IN DIARRHEA DOG AND ITS TREATMENT, IN TURKEY

- Sinasi UMUR^{1*}, Yucel MERAL², Cenk S. BOLUKBAS¹, A. Tumay GURLER¹ 616

FELINE DIABETES MELLITUS AND DIFFERENTIAL DIAGNOSYS WE NEED TO CONSIDER

- Madalina ROSCA BURLACU¹, Gheorghe SOLCAN^{*} 617

EVALUATION OF BITCH MILK CYTOLOGY IN MAMMARY GLAND INFLAMMATIONS

- Iosif VASIU¹, Marina SPÎNU¹, Flaviu TĂBĂRAN², Mihaela NICULAE¹, Raul Alexandru POP³
and Gheorghe Florinel BRUDAŞCĂ¹ 618

CARDIO-THORACIC RATIO EVALUATION OF CARDIAC SIHLOUETTE COMPARED WITH THE VERTEBRAL HEART SCALE IN CATS	
Oana BÎRSAN*, Andrei BAISAN, Diana MOCANU and Vasile VULPE.....	619
HELICAL COMPUTED TOMOGRAPHY - ANATOMY OF THE CAT ABDOMEN	
E. GAVRILAS, F. MIRÓ, B. BLANCO ³ , R. LUCENA ³ , P.J. GINEL ³ , M. NOVALES ³	620
LOAD WITH SALMONELLA spp. IN FATTENING PIGS AFTER WEANING UNTIL TO FATTEING	
Zorița Maria COCORA*, Ioan ȚIBRU.....	621
NON-THERMAL PLASMA ACTIVATED WATER (PAW) - A NEW BIOCIDE AGENT ACTIVE AGAINST MYCOBACTERIA	
Andra-Cristina BOSTĂNARU ^{1*} , Valentin NĂSTASĂ ¹ , Eugen HNATIUC ² , Gheorghe SAVUȚA ¹ and Mihai MAREȘ ¹	622
WOBBLER SYNDROME - A CASE REPORT AND REVIEW OF THE LITERATURE	
Constantin DARABAN ^{1*} , Vasile VULPE ¹ , Florentina DARABAN ¹ , Leonardo MEOMARTINO ²	623
PREVALENCE OF CRYPTOSPORIDIOSIS IN THE CALVES AND RISCK FACTORS IN BLIDA (NORTH OF ALGÉRIA)	
Mustapha DJOUDI *	624
PIGEONS UNDERGOING X-RAY EXAMINATION	
Mălina FILIPĂȘ ^{1*} , Lucia BEL ¹ , Cosmin PEȘTEAN ¹ , Robert PURDOIU ² , Liviu OANA ¹ , Horea CRIVEANU ³	625
SURGICAL ABLATION OF A CUTANEOUS ULCERATED SKIN LESION IN GUINEA PIG	
Jacqueline MOCANU, Teodora GARDAN, Bianca BOFAN, Anca CUCOS, Andreea GEORGESCU.....	626
SURGICAL ABLATION OF CANAL EAR IN A DOG WITH CERUMINOUS ADENOCARCINOMA EAR TUMOR	
Jacqueline MOCANU, Andrei TANASE, Teodora GARDAN, Cerasella VASILESCU, Anca CUCOS and Bianca BOFAN	627
DETECTION OF ANTIBODIES AGAINST RABIES VIRUS IN FOXES SERUM AFTER ORAL VACCINATION CAMPAIGN IN BUZAU AND GALATI COUNTIES	
Mihaela-Anca DASCALU ¹ , Florentina DARABAN ¹ , Marius DAN ² , Doina DANES ³ , Stelian BARAITAREANU ³ , Oana Irina TANASE ¹ , Elena VELESCU ¹	628
USING OF GARRA RUFA FOR TREATMENT OF FIN ROT IN GOLDFISH (<i>CARASSIUS AURATUS AURATUS</i>)	
Clementina Luisa COJOCARU ¹ , Calin Decebal COJOCARU ²	629
A MURINE EFFORT MODEL FOR STUDYING THE INFLUENCE OF <i>TRICHINELLA</i> ON MUSCULAR ACTIVITY IN UNINFECTED MICE	
Ionuț MARIAN ^{1*} , Călin-Mircea GHERMAN ¹ and Andrei Daniel MIHALCA ¹	630
VASCULAR CHARACTERISTICS OF AN INDUCED SHOCK MODEL IN SEVERAL MAMMAL SPECIES	
Sorin Ioan BESCHEA-CHIRIAC ^{1*} , Veronica BILD ² , Gheorghe SOLCAN ¹	631
RELATIONSHIP BETWEEN DAILY RUMINATION TIME, PHYSICAL ACTIVITY, ESTRUS AND METABOLIC CHANGES IN DAIRY COWS	
Răzvan Nicolae MĂLĂNCUȘ ^{1*} and Cristina Maria MĂLĂNCUȘ ²	632

**ORAL METASTATIC MELANOMA WITH NEUROSARCOMATOUS TRANSFORMATION
IN A DOG**

M Yavuz GULBAHAR^{1*}, Ahmet OZAK¹, Yonca B KABAK¹, M Onder KARAYIGIT², Ayhan GACAR¹ 633

**HYPERTHERMIC INTRAPERITONEAL CHEMOTHERAPY (HIPEC) ACTION ON
EXPERIMENTALLY INDUCED ASCITES TUMOURS IN WISTAR RATS**

Alexandru SUPEANU¹, Dan CRÎNGANU³, Bogdan MARINESCU², Raluca NEGREANU³, Teodora SUPEANU³ 634

**SECTION 10: LAND MEASUREMENT, NATURAL AND HUMANISTIC SCIENCES -
MATHEMATICS AND STATISTICS, COMPUTER SCIENCE AND MULTIMEDIA,
BIOPHYSICS AND AGRO-METEOROLOGY, BUILDING ENGINEERING, LAND
IMPROVEMENT, CADASTRE AND IRRIGATED CROPS**

**THE COMPACTION – TEMPERATURE - HUMIDITY INTERDEPENDENCE IN THE
CASE OF A METALIC STRUCTURE LOCATED IN A DRAINED AREA**

Cornel ARSENE^{1)*}, Gheorghe Mugurel RĂDULESCU¹⁾, Mircea Vasile ORTELECAN²⁾ 635

**THE APPLICATION OF A SPECIFIC METHOD FOR MINING TOPOGRAPHY IN THE
CASE OF OBSERVATIONS FOR CROWDED AREAS**

Cornel ARSENE^{1)*}, Sanda NAŞ¹⁾, Sebastián JUCAN¹⁾ 636

**SECTION 10: LAND MEASUREMENT, NATURAL AND HUMANISTIC SCIENCES -
PEDAGOGY AND METHODICS, APPLIED LANGUAGES IN AGRICULTURE**

HER CREATIVITY AND RELEVANCE IN SCHOOL LEARNING

Izabella Margareta KECSKES * 637

THE DEVELOPMENT OF EMOTIONAL INTELLIGENCE IN CHILDREN

Izabella Margareta KECSKES * 638



UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE CLUJ-NAPOCA

