

**HORTICULTURE AND
FOOD PRODUCTS PROCESSING TECHNOLOGY**

EFFECT OF GROWTH REGULATORS ON THE CROP LOAD MANAGEMENT, YIELD AND QUALITY OF FRUITS OF CV GALA DELICIOUS Balan Petru, Ivanov Igor, Bîlici Inna, Şarban Vasile, Liuţcan Valentina, Vămăşescu Sergiu, Peşteanu Ananie, Balan Valerian	5
LEAF AREA FORMATION IN THE NEW APPLE VARIETIES CULTIVATED IN THE REPUBLIC OF MOLDOVA Bîlici Inna, Balan Petru, Crivoi Luminiţa, Vămăşescu Sergiu, Peşteanu Ananie, Balan Valerian	11
APPLYING THE ANALYTICAL HIERARCHICAL PROCESS TO IDENTIFY THE MOST IMPORTANT GRAPEVINE VARIETIES FROM HILLS OF BANAT VITICULTURAL REGION Buciumeanu Elena-Cocuţa, Vizitiu Diana Elena, Dincă Lucian, Toma Ionela Daniela	17
BIOTECHNOLOGICAL ASPECTS MET IN OBTAINING SWEET BREAD Căpruciu Ramona	23
BEANS ACCORDING TO THE TIPE OF THE PACKAGING AND METHOD OF STORAGE Căpruciu Ramona, Lascu Nicolae, Mărăcineanu Ecaterina	29
THE EFFECT OF REGLALG ON THE GERMINATION INDICES OF CUCUMBER SEEDS SUBJECTED TO GERMINATION AT POSITIVE SUBOPTIMAL TEMPERATURES Cauş Maria, Dascalu Alexandru	35
AMINO ACID COMPOSITION AND INORGANIC CONSTITUENTS OF THE ASH OF SOYBEAN SEEDS RELATED TO METAL IONS APPLICATION Cauş Maria	39
NEW BIOFERTILIZERS – AGROCHEMICAL EFFECTS Cioroianu Traian, Sîrbu Carmen, Grigore Adriana, Mihalache Daniela	45
QUALITATIVE ASPECTS CONCERNING THE BIOCHEMICAL COMPOSITION OF SOME LOCAL POPULATIONS OF <i>CAPUSICUM ANNUUM</i> SSP. <i>GROSSUM</i> CULTIVATED ON SANDY SOILS OF OLTENIA Ciucă (Paraschiv) Alina-Nicoleta, Croitoru Mihaela, Băbeanu Cristina ¹ , Popa Daniela	51
THE ASSESSMENT OF GENETIC RESOURCES USED IN IMPROVING TOMATOES IN THE CLIMATIC CONDITIONS FROM 2020 YEAR Ciuciu Elena, Pintilie Ioan, Sffrloagă Loredana Mirela	57

RESEARCH STUDIES ON MAKING BEST USE OF PEDOCLIMATIC CONDITIONS SPECIFIC TO CRAIOVA PERI-URBAN AREA THROUGH GRAPEVINE CULTIVATION

Costea Dorin Constantin, Baci Ana Maria63

RESEARCH ON REDUCING WEEDS BY HERBICIDE ON SWEET POTATO CROPS LOCATED ON SANDY SOILS

Cotet Gheorghe, Diaconu Aurelia, Croitoru Mihaela, Mitrea Rodi67

THE INFLUENCE OF LIGNOGUMAT PRODUCT ON SEED GERMINATION AND SEEDLING GROWTH OF *CUCUMIS SATIVUS* L. UNDER THE INFLUENCE OF SALINE STRESS

Dinu Maria, Soare Rodica, Hoza Gheorghiza73

EVALUATION OF POLYPHENOL CONTENT AND ANTIOXIDANT ACTIVITY IN MANDARIN (*CITRUS RETICULATE*) LEAVES FROM DIFFERENT CULTIVARS GROWN IN GREECE

Gougoulas Nikolaos, Stavropoulos Georgios-Christos, Papachatzis Alexandros, Filintas Agathos, Ntalla Maria-Nektaria80

GASTRONOMY TOURISM, LOCAL AGRICULTURAL PRODUCTS AND LOCAL DEVELOPMENT

Apostolos Goulas, Vassiliki Tsiountsioura, Eirini Korda, Alexandros Papachatzis 86

EVALUATION OF SOME QUALITATIVE PARAMETERS OF CORNICHONS PRODUCTION, IN PROTECTED CULTURE CONDITIONS

Mărăcineanu Ecaterina, Lascu Nicolae, Căpruciu Ramona92

THE EFFECT OF LONG-TERM FERTILIZATION WITH NP ON CHEMICAL CHARACTERISTICS OF SOIL

Nicoleta Mărin, Felicia Chețan, Marius Bărdaș, Claudia Preda98

ASPECTS REGARDING SOME PHYSIOLOGICAL DISEASES IN SOME CULTURE PLANTS IN THE CITY OF PITESTI

Mihaescu Cristina106

THE INFLUENCE OF CERTAIN HORMONES ON THE CALLUSING ABILITY IN SOME ROOTSTOCKS FOR PLUMS

Mutu (Sima) Nicoleta, Ionescu Mariana, Cosmulescu Sina112

EVALUATION OF THE INFLUENCE OF STERILIZATION FACTORS, THE TYPE OF EXPLANT ON MICROPROPAGATION OF SOME PLUM ROOTSTOCKS

Mutu (Sima) Nicoleta, Mîndrilă Gheorghiza, Cosmulescu Sina118

PHENOLOGICAL RESEARCH ON THE BEHAVIOR OF THE NEW INTRODUCED APRICOT VARIETIES IN THE SOUTHERN PART OF THE REPUBLIC OF MOLDOVA

Negru Ion, Peșteanu Ananie125

EFFECT OF PINCHING AND CYCOCEL ON GROWTH OF *IREFINE HERBSTII* Hook. POTTED PLANTS

Nicu Carmen, Manda Manuela131

FOOD SAFETY OF THE SUSTAINABLE AGRI-FOOD SUPPLY CHAIN

Panait Ioana, Cucu Marian Catalin137

EFFECT OF ALTITUDE ON TOTAL PHENOLIC CONTENT AND ANTIOXIDANT ACTIVITY FIVE OLIVE FRUIT CULTIVARS GROWN IN CENTRAL GREECE

Papachatzis Alexandros, Gougoulias Nikolaos, Filintas Agathos, Ntalla Maria-Nektaria141

EVALUATION ON TOTAL PHENOLIC CONTENT AND ANTIOXIDANT ACTIVITY OF CHESTNUT FRUITS, SKINS AND LEAVES FROM CENTRAL GREECE

Papachatzis Alexandros, Gougoulias Nikolaos, Zakynthinos Georgios147

THE INFLUENCE OF GERBA 4LG ON BRANCHING OF ONE-YEAR-OLD APPLE NURSERY TREES

Peşteanu Ananie153

BIOLOGICAL AND SEROLOGICAL TECHNIQUES FOR VIRAL EVALUATION OF APPLE MOTHER PLANTS

Plopa Catia159

COMPARATIVE QUANTITATIVE ANALYSIS OF SOME CLASSES OF BIOACTIVE COMPOUNDS IN SIX GREEN TEA TYPES AVAILABLE ON THE ROMANIAN MARKET

Popoviciu Dan Răzvan, Ionaşcu Daniela Cristinela, Bercu Rodica167

RESEARCH ON THE CONTENT OF ESSENTIAL OILS, FLAVONOIDS, PHENOLIC AND POLYPHENOLIC COMPOUNDS IN PARSLEY (*PETROSELINUM CRISPUM* MILL.)

Pricop Simona Mariana, Popoviciu Dan Răzvan, Bordei Ştefania173

COMPARATIVE STUDIES ON THE ACCUMULATION OF SOME METABOLITES AT *THYMUS VULGARIS* PLANTS MULTIPLIED BY *IN VITRO* CULTURE AND BY CONVENTIONAL METHODS

Radomir Ana-Maria, Pandelea Mariana Letitia, Stan Ramona, Nedelea Gina179

THE QUALITY STATUS OF THE EUTRICAMBOSOL FROM GOEŞTI, DOLJ COUNTY

Radu Valeriu Lucian, Giugea Nicolae, Mărăcineanu Liviu185

THE ANALYSIS OF PHYSICAL AND CHEMICAL PROPERTIES OF REGOSOL FROM BRĂDEŞTI, DOLJ COUNTY

Radu Valeriu Lucian, Giugea Nicolae, Mărăcineanu Liviu190

BEHAVIOR OF VINE VARIETIES WITH BLACK GRAPES FOR RED WINES ON SANDY SOILS IN SOUTHERN OLTENIA

Iulian Răţoi, Alina Nicoleta Paraschiv196

STUDIES OF BEHAVIOR IN THE *IN VITRO* ROOTING PHASE AND *EX VITRO* ACCLIMATIZATION OF *FRAGARIA X ANANASSA* CV. MAGIC PLANTLETS

Ionela Rusea, Dorel Hoza, Valentina Isac, Mihaela Ileana Oprea, Florina Uleanu ...202

IN VITRO* ANTIOXIDANT ACTIVITY AND PHENOLIC CONTENTS OF THE ETHANOLIC EXTRACT OF *ABUTILON THEOPHRASTI

Sbora Ioana Natalia, Bălăşoiu Roxana Maria, Andrei Ana Marina210

ORGANIC FERTILIZER – AGROCHEMICAL EFFECTS IN POMICULTURE

Sîrbu Carmen, Cioroianu Traian, Stănescu Ana Maria216

EVALUATION OF POLYPHENOLS CONTENT AND ANTIOXIDANT ACTIVITY IN MANDARIN JUICE FROM DIFFERENT FRUIT CULTIVARS GROWN IN GREECE

Stavropoulos Georgios-Christos, Gougoulis Nikolaos, Filintas Agathos, Papachatzis Alexandros, Ntalla Maria-Nektaria222

WOODEN GREENHOUSES WITH GEOTHERMAL HEATING SUPPORT

Stiliani Tsiountsioura228

PRELIMINARY RESULTS ON PI WATER – USEFULL IN CUTTINGS PROPAGATION

Velcea Marian Nicolae, Butcaru Ana Cornelia, Stănică Florin, Moiescu Emilia .231

METHODS AND SYSTEMS FOR DETECTING WATER STRESS IN VITICULTURE

Vizitiu Diana Elena, Mazăre Alin-Gheorghită, Buciumeanu Elena-Cocuța, Tița Andrei, Anghel Gheorghe235

BIOLOGY AND ENVIRONMENTAL ENGINEERING

XANTHOMONAS EUVESICATORIA JONES ET AL. (2004) A POSSIBLE NEW PATHOGEN IN ROMANIA

Alecu (Mincă) Daniela, Mitrea Rodi241

ON THE CADDISFLY (TRICHOPTERA) LARVAE FAUNA OF OLTENIA (ROMANIA)

Babalean Anda Felicia249

REPORT ON APICOMPLEXA – GREGARINASIDA IN OPILIONES (ARACHNIDA) HOSTS

Babalean Anda Felicia255

RESEARCH ON THE INFLUENCE OF NUTRITION ON THE PRODUCTION OF BIOMASS OBTAINED FROM SUGAR SORGHUM ON SANDY SOILS FROM SOUTHERN OLTENIA

Băjenaru Maria Florentina, Drăghici Reta, Drăghici Iulian, Croitoru Mihaela, Stoica Maria Milioara, Dima Milica259

APPLIED WATER AND IRRIGATION COSTS OF SOME FIELD CROPS IN KONYA PROVINCE, TURKEY

Bilal Acar, Mithat Direk265

THE ROLE OF AMELIORATIVE PLANTS AND ORGANIC MULCH IN SOIL FUNGI DIVERSITY

Butcaru Ana Cornelia, Matei Gabi-Mirela, Matei Sorin, Stănică Florin273

DIVERSITY OF SOIL BACTERIA IN ORGANIC EDIBLE ROSE CULTURE

Butcaru Ana Cornelia, Matei Gabi-Mirela, Matei Sorin, Stănică Florin279

LUNCA MURESULUI NATIONAL PARK'S MIXED HARDWOOD STANDS WITH PEDUNCULATE OAK AFFECTED BY EXTREME DESTABILIZING PHENOMENA

Cadar Nicolae285

MAINTAINING SOIL FERTILITY AND ENVIRONMENTAL PROTECTION BY APPLYING OPTIMUM MINERAL FERTILIZATION

Calciu Irina, Antal Andrei, Vizitiu Olga291

CALAMAGROSTIS SAMPLES PRESENT IN ALEXANDRU BELDIE HERBARIUM

Ilie-Cosmin Cântar, Maria Dincă297

IMPLEMENTING THE HIERARCHY-ANALYTIC PROCESS FOR FOREST FRUITS FROM DOLJ COUNTY, ROMANIA

Ilie Cântar, Lucian Dincă303

EVALUATING GAME AND FISH SPECIES FROM VÂLCEA COUNTY

Ciontu Cătălin Ionel, Dincă Lucian309

CARLINA GENUS IN “ALEXANDRU BELDIE” HERBARIUM

Ciontu Cătălin, Dincă Maria317

STUDIES REGARDING THE ABUNDANCE OF SOME FISH SPECIES OF COMUNITY IMPORTANCE FROM THE NORDUL GORJULUI DE VEST SITE

Ciupeanu Călugăru Eleonora Daniela, Tuca Ovidiu ,Stan Catalin324

THE DIFFERENCES BETWEEN HALOPHYTE SPECIES GROWN IN DIFFERENT SOILS USING IMAGING SOFTWARE TOOLS

Constantin Carmen, Dobrin Aurora, Zugravu Maria Mihaela, Andrei Moț328

RESEARCH ON CONTROL OF WEEDS IN PEANUTS GROWN ON IRRIGATED SANDY SOILS

Dima Milica, Diaconu Aurelia, Drăghici Reta, Drăghici Iulian, Croitoru Mihaela 334

STUDIES ON THE IMPLICATIONS OF FERTILIZATION AND PLANT NUTRITION SPACE ON GRAIN SORGHUM PRODUCTION COMPONENTS IN SANDY SOIL CONDITIONS

Drăghici Iulian, Drăghici Reta, Croitoru Mihaela, Diaconu Aurelia, Băjenaru Maria Florentina, Dima Milica340

RESEARCH REGARDING THE BEHAVIOR OF SOME GENOTYPES OF RYE IN THE CONDITIONS OF SANDY SOILS FROM SOUTHERN OLTENIA

Drăghici Reta, Drăghici Iulian, Croitoru Mihaela, Diaconu Aurelia, Paraschiv Alina Nicoleta, Dima Milica, Matei Gheorghe346

AGRICULTURE WITH HIGH NATURAL VALUE IN ROMANIA; SOIL QUALITY AND SOCIO-ECONOMIC IMPACT IN THE CONTEXT OF CRISIS

Dumitrașcu Monica, Anghel Victoria Amelia, Matei Sorin, Sîrbu Carmen Eugenia, Cioroianu Traian Mihai352

LIGHT MICROSCOPY IMAGES OF POLLEN OF 3 GERANIACEE SPECIES

Enache Monica, Dănăilă-Guidea Silvana Mihaela358

THE INFLUENCE OF IRRIGATION REGIME ON TOMATO CROP PRODUCTION

Simion Enuta364

SOIL'S PLANT AVAILABLE WATER AND NITROGEN INORGANIC MODELING AND DIGITAL GIS MAPPING OF WINTER WHEAT, UTILIZING PRECISION AGRICULTURE, GEOSTATISTICAL MODELS, SOIL'S pH, WATER HOLDING CAPACITY, SAND, CLAY AND SILT

Filintas Agathos, Gougoulias Nikolaos, Papachatzis Alexandros368

THE EFFECTS OF *CRITHMUM MARITIMUM* L. FOLIAR TISSUES ON SOIL ORGANIC MATTER BIODEGRADATION AND OTHER SOIL CHEMICAL PROPERTIES

Gougoulas Nikolaos, Filintas Agathos, Zafeiriadis Spyros, Ntalla Maria-Nektaria, Papachatzis Alexandros376

ERVANT VARIETY – NEW RESULT OF POTATO BREEDING RESEARCH AT NIRDPSB BRASOV

Hermeziu R., Hermeziu Manuela, Ștefan Maria, Bărăscu Nina, Chelmea Carmen ...382

STUDIES OF EFFICACY OF DIFFERENT HERBICIDES AGAINST WEEDS IN POTATO CROP IN CENTRAL PART OF ROMANIA

Hermeziu Manuela, Nițu Sorina, Hermeziu Radu388

FRUITS VARIABILITY OF *Datura stramonium* L. WEED

Nicolaie Ionescu, Oana Daniela Badea, Maria Magdalena Podea, Ilie Cătălin Dinuță, Diana Maria Popescu, Cristina Ghiorghe, Mariana Cristina Nicolaie, Marian Robert Gheorghe394

MORPHOLOGICAL CHARACTERS OF NEW WHEAT AND TRITICALE VARIETIES

Nicolaie Ionescu, Oana Daniela Badea, Diana Maria Popescu, Ilie Cătălin Dinuță, Cristina Ghiorghe, Mariana Cristina Nicolaie, Maria Magdalena Podea, Marian Robert Gheorghe.....401

RESEARCH ON THE PECULIARITIES OF DIGESTION IN RUMINANTS

Mădescu Bianca Maria, Lazăr Roxana, Davidescu Mădălina-Alexandra, Poroșnicu Ioana, Andra-Sabina Neculai-Văleanu, Matei Andrei-Cristian, Boișteanu Paul Corneliu409

CHARACTERISTICS REGARDING DOBROGEA'S PLATEAU GEOMORPHOLOGY BASED ON DATA FROM FOREST MANAGEMENT PLAN THE TITLE OF THE PAPER

Marcu Cristiana, Dincă Lucian Constantin415

PRIORITIZING THE POTENTIAL OF NON-WOOD FOREST PRODUCTS (NWFP) FROM GALAȚI COUNTY BY USING THE ANALYTIC HIERARCHY PROCESS

Marcu Cristiana, Dincă Lucian Constantin421

HABITAT TREES WITHIN THE "RUNCU-GROȘI" NATURE RESERVE

Oliver Merce427

MAIN PRESSURES AND THREATS AFFECTING THE FOREST HABITATS FROM THE NATURA 2000 SITE ROSCI0246 TINOVUL LUCI

Oliver Merce, Daniel-Ond Turcu433

HETEROTROPHIC CULTIVATION OF CHLAMYDOMONAS REINHARDTII USING GLYCERINE AS THE SOLE CARBON SOURCE

Maria N. Metsoviti, Alexandros Papachatzis, Nikolaos Gougoulas, Anastasios, Mpesios, Maria-Eleni Gregoriou, George Papapolymerou.....438

ASPECTS REGARDING THE MYCOBIOTA FROM THE MUDDY VOLCANOES NATURE RESERVE

Mihaescu Cristina444

WILD BIRD SPECIES OBSERVED IN PARKS, ORCHARDS AND GARDENS IN SOUTHEASTERN ROMANIA

Mihai Cosmin Alexandru, Butcaru Ana Cornelia, Stănică Florin, Badea Monica Luminița450

INVASIVE HARMFUL SPECIES FOUND IN GREEN SPACES IN THE CENTRAL AREA OF OLTENIA

Mitrea Ion, Stan Raluca456

FLORISTIC ASPECTS FROM THE FOREST HABITATS FROM THE OLTENIA FOREST STEPPE SITE

Mitrea Rodi, Fodor Atia Mihaela462

FRAGRANT ROSES FROM THE BOTANICAL GARDEN "DIMITRIE BRANDZA" ROSARIUM IN BUCHAREST

Marius Negulici469

THE EFFECTS OF THE TREATMENT WITH FUNGICIDES ON THE PHYSIOLOGICAL PROCESSES IN *PRUNUS CERASUS* L. ATTACKED BY *BLUMERIELLA JAAPII* (REHM) ARX.

Nicolae I., Bușe-Dragomir Luminița475

REASERCHES ABOUT THE VARIATION OF ADRENOCORTICOTROP HORMON (ACTH) DEPENDING ON AGE GROUP AND GENDER

Olaru Mariana Luminița, Enache Andra Mihaela.....482

INCIDENCE OF SMOKING AMONG PREGNANT WOMEN

Olimid Diana490

PHYSICO-CHEMICAL PARAMETERS OF GROUNDWATER IN SOUTHERN ROMANIA – A STUDY CASE

Popescu Simona Mariana, Popa Daniela Valentina, Ciolponea Marina Andreea 496

MANAGEMENT AND IMPLEMENTATION OF ENVIRONMENTAL PROJECTS IN PRE-UNIVERSITY EDUCATION

Popescu Simona Mariana, Godeanu Felix Ionel Crișu501

CONTAMINATION WITH FUNGI AND MYCOTOXINS OF SOME VEGETAL SUBSTRATES USED IN ANIMAL FEED

Poroșnicu Ioana, Bădilaș Nicolae, Mădescu Bianca, Davidescu Mădălina, Matei Andrei-Cristian, Neculai-Văleanu Andra-Sabina, Creangă Șteofil505

ANALYSIS OF THE ABUNDANCE AND DOMINANCE OF HARMFUL INSECTS PRESENT IN RAPE CROPS IN 2018/2019 IN THE S-W OF THE BOIAN PLAIN

Raicu Adrian Daniel, Mitrea Ion510

PRELIMINARY DATA REGARDING THE SPONTANEOUS FLORA, FROM CRASNA – GORJ COUNTY (ROMANIA)

Răduțoiu Daniel, Cătuțoiu Adina514

VARIABILITY OF THE MAIN QUANTITATIVE CHARACTERISTICS OF THE *ROMEC 554j* TOMATO VARIETY

Sfirloagă Loredana Mirela, Pintilie Ioan, Diaconu Aurelia, Nanu Ștefan526

ENTOMOFAUNA FROM THE GHIDICI - DOLJ AREA

Stan Catalin, Tuca Ovidiu, Ciupeanu Calugaru Eleonora Daniela531

BEHAVIOR OF MAIZE TO THERMOHYDRICAL STRESS IN THE AREA OF SANDY SOILS, ACCORDING TO THE FERTIRIGATION REGIME

Stoica Maria Milioara, Drăghici Iulian, Drăghici Reta, Constantinescu Mircea, Croitoru Mihaela, Paraschiv Alina Nicoleta, Băjenaru Maria Florentina537

**STUDIES REGARDING THE ABUNDANCE AND DOMINANCE OF SOME
INSECTS SPECIES FROM AN VEGETABLE FARM FROM BRĂDEȘTI
AREA, DOLJ**

Țucă Ovidiu, Stan Cătălin, Ciupeanu Călugăru Eleonora Daniela, Hodorog
Stela.....543

STUDY ON GASTROESOPHAGEAL REFLUX DISEASE

Vlădulescu Carmen, Bădica Cristina Violeta547