

## SUMMARY

### FRUIT GROWING

1. IMPACT OF NITROGEN FERTILIZATION ON GROWTH AND PHOTOSYNTHETIC ACTIVITY OF WALNUT PLANTING MATERIAL (*JUGLANS REGIA* L.), CULTIVATED IN CONTAINERS - **Vanya AKOVA, Nataliya DIMITROVA, Lilyana NACHEVA, Irina STANEVA, Andon VASILEV, Stefan GANDEV** ..... 15
2. FIRST YEAR REACTION OF SOME EARLY HIGHBUSH BLUEBERRY VARIETIES GROWN IN CONTAINERS TO ORGANIC FERTILIZERS AND PEST CONTROL - **Adrian ASĂNICĂ, Dan POPESCU, Florin STĂNICĂ, Georgeta TEMOCICO** ..... 21
3. RESPONSE OF POTTED RASPBERRIES AND BLACKBERRY VARIETIES TO ORGANIC TECHNOLOGY MEASURES IN HIGH TUNNEL SYSTEM – **Adrian ASĂNICĂ, Dan POPESCU, Florin STĂNICĂ, Georgeta TEMOCICO** ..... 27
4. EFFECTS OF DIFFERENT CULTURE MEDIA AND PLANT GROWTH REGULATORS ON MICROPROPAGATION OF ‘GISELA 5’ CHERRY ROOTSTOCK – **Orsolya BORSAL, Doina CLAPA, Andrei MAGDEA, Monica HĂRȚA, Andreea ANDRECAN, Viorel MITRE** ..... 33
5. BEHAVIOUR OF SOME PLUM CULTIVARS UNDER ECOLOGICAL CONDITIONS FROM ARGES AREA – **Mădălina BUTAC, Zoya KAZLOUSKAYA, Mihai CHIVU, Bogdan ZAMFIRESCU** ..... 41
6. STUDIES REGARDING THE INFLUENCE OF POSTHARVEST INTERVENTION UPON THE QUALITY AND THE STORAGE PERIOD OF SOME APRICOT AND PEACH CULTIVARS – **Adrian CHIRA, Lenuța CHIRA, Elena DELIAN, Ligia ION** ..... 46
7. BIOMETRICAL ASPECTS OF SOME PEACH TREE (*PERSICA VULGARIS* L.) FRUIT VARIETIES GRAFTED ON DIFFERENT ROOTSTOCKS IN THE CONDITIONS OF LUGOJ NURSERY, TIMIȘ COUNTY – **Lia CONSTANTIN, Olimpia Alina IORDĂNESCU, Alexandra BERECHESCU, Daniela SCEDEI, Maria BĂLA, Ana BONA** ..... 52
8. THE INFLUENCE OF TEMPERATURE ON PHENOLOGY OF ORNAMENTAL WOODY SPECIES IN URBAN ENVIRONMENT – **Sina COSMULESCU, Antonela BUICAN STANCIU, Mariana IONESCU** ..... 61
9. VARIABILITY OF PHYSICAL-CHEMICAL CHARACTERISTICS IN MEDLAR GENOTYPES (*MESPILUS GERMANICA* L.) DEPENDING ON CLIMATIC YEAR – **Sina COSMULESCU, Flavia SCRIECIU** ..... 68
10. FRUIT-BEARING POTENTIAL MODELING OF THE FLORICANE RASPBERRY CV. WILLAMETTE – **Miljan CVETKOVIC, Aleksandar ZIVOTIC, Sezai ERCIŞLI, Silva GROBELNIK MLAKAR, Tatjana JOVANOVIĆ-CVETKOVIC, Boris PASALIC** ..... 73
11. EVALUATION OF SOME NUTRITIONAL PROPERTIES OF CHINESE JUJUBE (*ZIZIPHUS JUJUBA* MILL.) FRUITS ORGANICALLY PRODUCED IN BUCHAREST AREA – **Diana Elena DICIANU, Ana Cornelia BUTCARU, Carmen Gabriela CONSTANTIN, Aurora DOBRIN, Florin STĂNICĂ** ..... 79
12. AGROBIOLOGICAL ASSESSMENT OF APPLICATION OPPORTUNITIES OF NATURAL HUMATES AND PYROLYSIS RESIDUE IN THE PRODUCTION OF APPLE ROOTSTOCKS – **Galya DOBREVSKA, Manol DALLEV, Rada POPOVA** ..... 85
13. CHANGES IN CONVENTIONAL AGROTECHNOLOGY IN THE GROW OF APPLE ROOTSTOCKS - **Galya DOBREVSKA, Manol DALLEV** ..... 90

14. OPTIMISATION OF AGROTECHNOLOGY IN THE PRODUCTION OF APPLE ROOTSTOCKS – <b>Galya DOBREVSKA, Manol DALLEV</b> .....	94
15. RESEARCH REGARDING THE INFLUENCE OF ROOTSTOCK ON THE PRODUCTION AND FRUIT QUALITY FOR THE PINOVA APPLE VARIETY – <b>Dorel HOZA, Radu BĂRĂSCU, Liliana BĂDULESCU, Ioana CĂTUNEANU-BEZDADEA, Ioannis KOTROTSIOS</b> .....	98
16. CONTENT OF MACRO, MICROELEMENTS AND PIGMENTS IN LEAVES OF ‘TEGERA’ AND ‘ELENA’ PLUM CULTIVARS IN DIFFERENT FERTILIZATION VARIANTS – <b>Denitsa HRISTOVA, Diyan GEORGIEV, Evlogi MARKOV</b> .....	103
17. KIWIFRUIT ( <i>ACTINIDIA</i> SPP.) PHENOLOGICAL GROWTH STAGES IN SOUTHERN ROMANIAN CLIMATE ACCORDING TO THE BBCH SCALE – <b>Lavinia Mihaela ILIESCU, Florin STĂNICĂ</b> .....	109
18. STORAGE LIFE UNDER CONTROLLED ATMOSPHERE OF JONATHAN AND BELLE OF BOSKOOP APPLES, TRADITIONALLY PRODUCED IN BRAN-ZĂRNEȘTI AREA – <b>Cătălina ITIGAN, Ana Cornelia BUTCARU, Ioana CĂTUNEANU-BEZDADEA, Florin STĂNICĂ</b> .....	120
19. PRELIMINARY RESULTS REGARDING THE POSTHARVEST PATHOLOGY OF PAWPAW ( <i>ASIMINA TRILOBA</i> DUNAL) FRUITS – <b>Elena Ștefania IVAN, Oana Alina NIȚU, Ionuț Ovidiu JERCA, Florin STĂNICĂ</b> .....	125
20. MODELLING THE CUMULATIVE EFFECTS OF MICROCLIMATE IN AN INTENSIVE APPLE ORCHARD BASED ON MICROMETEOROLOGICAL MEASUREMENTS – <b>Zsolt JAKAB-ILYEFALVI</b> .....	129
21. PRELIMINARY RESULTS ON THE EFFICACY OF SOME ORGANIC INSECTICIDES AGAINST APHIDS TO EUROPEAN PLUM – <b>Claudiu MOLDOVAN, Ioan ZAGRAI, Luminița ZAGRAI, Aurel MAXIM</b> .....	135
22. SCREENING OF APRICOT ELITES REACTION TO <i>PSEUDOMONAS</i> SPP. – <b>Marieta NESHEVA, Diyana ALEXANDROVA, Valentina BOZHKOVA</b> .....	141
23. EVALUATION OF THE BIOCHEMICAL QUALITY OF <i>ARONIA MELANOCARPA</i> FRUITS IN THE CONDITIONS OF SOUTHERN ROMANIA, UNDER THE INFLUENCE OF FERTILIZATION – <b>Claudia NICOLA, Alina FLOREA, Emil CHIȚU, Mădălina BUTAC</b> .....	147
24. USING NORMAL AND REDUCED RATE OF PHEROMONE DISPENSERS ISOMATE A/OFM FOR CONTROL OF PESTS ON PEACH AND PLUM IN BULGARIA – <b>Nedyalka PALAGACHEVA, Pavlin VASILEV, Radoslav ANDREEV, Hristina KUTINKOVA, Desislava STEFANOVA</b> .....	155
25. ASSESSMENT OF THE BACTERIUM <i>ERWINIA AMYLOVORA</i> ATTACK ON SEVERAL PEAR VARIETIES ( <i>PYRUS COMMUNIS</i> L.) AND THE INFLUENCE ON FRUITS SUGAR CONTENT – <b>Mirela PARASCHIVU, Andi CIOBANU, Otilia COTUNA, Marius PARASCHIVU</b> .....	163
26. RESEARCH CONCERNING THE APPEARANCE OF ALTERNATION OF FRUCTIFICATION IN SUPERINTENSIVE APPLE ORCHARDS – <b>Constantin PĂUN, Ligia ION</b> .....	169
27. BEHAVIOUR OF SOME NEW APPLE SCAB RESISTANT CULTIVARS CULTIVATED IN BUCHAREST AREA – <b>Laurențiu Florin PREDA, Ana Cornelia BUTCARU, Florin STĂNICĂ</b> .....	174

28. PRELIMINARY RESULTS ON THE CHANGES IN THE FLIGHT DYNAMIC OF <i>CYDIA POMONELLA</i> (L.) IN NORTH-EASTERN TRANSYLVANIA, UNDER THE INFLUENCE OF CLIMATE CHANGE – <b>Smaranda ROȘU-MAREȘ, Anca ȘOFRON, Claudiu MOLDOVAN</b> .....	183
29. NUTRITIONAL STATUS OF SOIL AFTER EIGHT YEARS OF FERTILIZING WITH ORGANIC PRODUCTS – <b>Irina STANEVA, Georgi KORNOV</b> .....	186
30. EVALUATION OF GERMAN PLUM CULTIVARS IN THE REGION OF TROYAN - <b>Boryana STEFANOVA, Georgi POPSKI</b> .....	192
31. TOP GRAFTING RESPONSE OF SOME PAWPAW ( <i>ASIMINA TRILOBA</i> DUNAL) GENOTYPES - <b>Andrei Florin TABACU, Ana Cornelia BUTCARU, Jerry LEHMAN, Florin STĂNICĂ</b> .....	198
32. FURTHER EVIDENCE OF DURABLE RESISTANCE IN HONEYSWEET TRANSGENIC PLUM UNDER NATURAL INFECTION WITH D AND REC STRAINS OF <i>PLUM POX</i> VIRUS - <b>Luminița Antonela ZAGRAI, Ioan ZAGRAI</b> .....	204
33. INFLUENCE OF SOME ROOTSTOCKS ON THE GROWTH, YIELD AND FRUITS QUALITY AT THE 'JOJO' PLUM CULTIVAR - <b>Bogdan ZAMFIRESCU, Dorel HOZA, Mădălina BUTAC, Mihai CHIVU</b> .....	210

#### VITICULTURE AND OENOLOGY

1. INFLUENCE OF MARC USED AS AN ORGANIC FERTILIZER ON BIOCHEMICAL AND BIOMETRIC CHARACTERISTICS OF THE GRAPES - <b>Adriana BĂDULESCU, Alina FLOREA, Dorin SUMEDREA</b> .....	217
2. THE INFLUENCE OF THE CLIMATIC CONDITIONS ON THE WINTER BUDS VIABILITY AND FERTILITY OF THE VINE VARIETIES FROM ISTRIA VITICOL CENTER - <b>Grigore-Valentin BELENIUC, Nicolae GIUGEA, Georgeta BELENIUC</b> .....	223
3. PHYSIOLOGICAL PROFILE OF SOME PATHOGENIC BACTERIA ASSOCIATED WITH GRAPEVINE CROWN GALL - <b>Oana-Alina BOIU-SICUIA, Sorina DINU, Lavinia BARBU</b> .....	230
4. RESEARCHES ON THE FROST RESISTANCE OF GRAPEVINE WITH SPECIAL REGARD TO THE ROMANIAN VITICULTURE. A REVIEW. - <b>Georgeta Mihaela BUCUR, Liviu DEJEU</b> .....	238
5. INFLUENCE OF CARBOHYDRATE CONTENT ON GRAFTING IN WINE GRAPE VARIETIES 'AROMAT DE IAȘI' AND 'GOLIA' - <b>Vlăduț Ion CIMPOI, Liliana ROTARU, Lucia Cintia COLIBABA, Elena Cristina SCUTĂRAȘU, Ioana CĂLIN, Cătălin Lulu ALEXANDRU</b> .....	248
6. NURSERY VEGETATIVE GROWTH OF 'GELU' AND 'PAULA' GRAPE VARIETIES, BY ANALYSIS OF FOLIARY PHOTOSYNTHETIC PIGMENTS - <b>Vlăduț Ion CIMPOI, Liliana ROTARU, Vasile Răzvan FILIMON, Lucia Cintia COLIBABA, Elena Cristina SCUTĂRAȘU, Ioana CĂLIN</b> .....	255
7. ASSESSMENT OF THE OAK CHIPS INFLUENCE ON THE COLOUR AND SENSORY PARAMETERS OF FETEASCA NEAGRA BY RAPID MATURATION SIMULATION - <b>George Adrian COJOCARU, Arina Oana ANTOCE</b> .....	262
8. EFFICACY ASSESSMENT OF SEVERAL CRYSTALLIZATION INHIBITORS USED FOR TARTARIC ACID STABILIZATION IN RED WINES - <b>George Adrian COJOCARU, Arina Oana ANTOCE</b> .....	270

9. INFLUENCE OF COPPER SPRAYING ON PHOTOSYNTHETIC PERFORMANCE, GRAPE RIPENING, WOOD MATURATION AND FROST RESISTANCE IN GRAPEVINE - <b>Alin DOBREI, Eleonora NISTOR, Pavel Dănuț BABAU, Alina DOBREI</b> .....	278
10. IDENTIFICATION BY PCR ITS-RFLP TECHNIQUE OF NEW YEAST ISOLATES FROM PIETROASA VINEYARD - <b>Corina DUMITRACHE, Mihai FRÎNCU, Tudor Alexandru RĂDOI, Iuliana Diana BĂRBULESCU, Constanța MIHAI, Florentina MATEI, Valerica TUDOR, Răzvan Ionuț TEODORESCU</b> .....	287
11. MECHANICAL COMPOSITION AND FERTILITY ELEMENTS OF CLONES 48, 1089, and 1091 CV RIESLING - <b>Tatjana JOVANOVIĆ-CVETKOVIĆ, Momir TRUBARAC, Silva GROBELNIK-MLAKAR, Rada GRBIĆ</b> .....	294
12. CLIMATE VARIABILITY AND CANOPY MANAGEMENT INFLUENCE ON GRAPE BERRIES QUALITY IN MERLOT AND PINOT NOIR VARIETIES - <b>Eleonora NISTOR, Alina DOBREI, Alin DOBREI, Gabriel CIORICA</b> .....	299
13. STUDY OF THE CHEMICAL COMPOSITION AND ANTIOXIDANT ACTIVITY OF SOME VARIETIES OF YOUNG RED WINES FROM DIFFERENT VINEYARDS IN SOUTHERN ROMANIA - <b>Petronela Anca ONACHE, Dorin Ioan SUMEDREA, Ovidiu TIȚA, Eugen NICOLESCU, Alina FLOREA</b> .....	307
14. STUDY OF THE EXTRACTION OF BIOACTIVE COMPOUNDS FROM THE WINEMAKING WASTE OF THE CABERNET SAUVIGNON VARIETY - <b>Petronela Anca ONACHE, Dorin Ioan SUMEDREA, Cătălin DUCU, Andrei TĂNASE</b> .....	316
15. QUALITATIVE AND QUANTITATIVE PERFORMANCES OF THE 'FETEASCĂ NEAGRĂ' VARIETY - A TRUE AMBASSADOR OF VITICULTURAL ROMANIA - <b>Marinela Vicuța STROE, Șerban DÂMBOVICEANU</b> .....	324

## VEGETABLE GROWING

1. AGRO-MORPHOLOGICAL CHARACTERIZATION OF HABANERO PEPPERS FROM THE GERMPLASM COLLECTION OF VEGETABLE RESEARCH DEVELOPMENT STATION BUZĂU - <b>Ovidia Loredana AGAPIE, Florin STĂNICĂ, Costel VÎNĂTORU, Elena BARCANU, Bianca Elena TĂNASE, Ion GHERASE, Geanina NEGOȘANU</b> .....	333
2. ANTIOXIDANT ACTIVITIES AND PHYTOCHEMICALS COMPOUNDS ON LEAF CABBAGE ( <i>BRASSICA OLERACEA</i> L. VAR. <i>ACEPHALA</i> ) AND CHINESE CABBAGE ( <i>BRASSICA RAPA</i> L. VAR. <i>CHINENSIS</i> ) - <b>Cristina BĂBEANU, Rodica SOARE, Maria DINU, Ovidiu PĂNIȚĂ</b> .....	339
3. INVESTIGATION OF THE INFLUENCE OF THE HUMIC ACIDS ON THE CULTIVARS OF LONG-DAY ONION ( <i>ALLIUM CEPA</i> L.), DRIP IRRIGATED IN THE CONDITION OF SOUTH BULGARIA - <b>Todor BABRIKOV</b> .....	347
4. THE QUALITATIVE AND QUANTITATIVE CHARACTERISTICS OF SOME ROMANIAN TOMATO VARIETIES IN GREENHOUSE CONDITION - <b>Adriana BĂDULESCU, Alina FLOREA, Dorin SUMEDREA, Florina ULEANU</b> .....	352
5. AGRONOMIC ASSESSMENT OF <i>PHYSALIS</i> SP. ACCESSIONS FROM VEGETABLE RESEARCH DEVELOPMENT STATION BUZAU, ROMANIA - <b>Elena BARCANU, Costel VÎNĂTORU, Ovidia Loredana AGAPIE, Ion GHERASE, Bianca TĂNASE, Geanina NEGOȘANU</b> .....	360

6. RESEARCH ON THE CONSUMPTION OPTIMIZATION OF CHEMICAL AND ORGANIC FERTILIZERS BY USING FOLIAR FERTILIZERS BASED ON NATURAL ORGANIC COMPOUNDS OF BORON IN THE PRODUCTION OF WATERMELONS - <b>Ramona CĂPRUCIU, Nicolae LASCU, Liviu Cristian MĂRĂCINEANU, Mihaela CROITORU</b> ....	367
7. MAIN PHENOTYPIC EXPRESSION ON VALUABLE AMARANTHUS ACCESSIONS FROM VEGETABLE RESEARCH AND DEVELOPMENT STATION BUZAU - <b>Ion GHERASE, Elena BARCANU, Ovidia Loredana AGAPIE, Bianca Elena TĂNASE, Geanina NEGOȘANU, Costel VÎNĂTORU</b> .....	373
8. OPTIMIZATION OF TOMATO CULTIVATION TECHNOLOGY UNDER GREENHOUSE THROUGH THE USE OF CONTINUOUS ELECTRIC CURRENT - <b>Mădălin-Vasile GHEORGHÎTOAIE, Vlăduț ACHIȚEL, Gabriel-Ciprian TELIBAN, Vasile STOLERU</b> .....	379
9. NUTRITIONAL QUALITY CHARACTERISTICS OF TWO PUMPKINS TYPE CULTIVATED IN BULGARIA - <b>Dimka HAYTOVA, Petya IVANOVA, Nadejda PETKOVA, Nikolay PANAYOTOV</b> .....	384
10. RESEARCH REGARDING THE INFLUENCE OF SOME RHIZOGENOUS PRODUCTS AND OF THE WETTING TIME ON THE GERMINATION OF SEEDS AND GROWTH OF PEPPER SEEDLINGS - <b>Gheorghîța HOZA, Maria DINU, Alexandra BECHERESCU, George MOCANU, Ioannis KOTROTSIOS</b> .....	390
11. VARIATION OF BIOACTIVE COMPOUNDS IN ORGANIC <i>OCIMUM BASILICUM</i> L. DURING FREEZE-DRYING PROCESSING - <b>Violeta Alexandra ION, Florin NICOLAU, Andrei PETRE, Oana-Crina BUJOR, Liliana BĂDULESCU</b> .....	397
12. USE OF MOLECULAR MARKERS IN IMPROVING RESISTANCE TO BIOTIC STRESS IN SOLANACEAE - A REVIEW - <b>Mihaela IORDĂCHESCU, Anca Amalia UDRIȘTE, Liliana BĂDULESCU</b> .....	405
13. INFLUENCE OF ORGANIC FERTILIZATION ON THE NUTRITIONAL REGIME OF TOMATOES - <b>Kostadin KOSTADINOV, Stoyan FILIPOV, Ivanka TRINGOVSKA</b> .....	413
14. INFLUENCE OF ORGANIC FERTILIZATION ON THE PHYSIOLOGICAL BEHAVIOR OF FIELD TOMATOES - <b>Kostadin KOSTADINOV, Radoslav CHIPILSKI, Stoyan FILIPOV</b> .....	419
15. MICROBIAL AND ENZYMATIC DEGRADATION OF CARBOHYDRATES: A COMPARATIVE INVESTIGATION OF COMPOST VARIANTS - <b>Boyka MALCHEVA, Milena YORDANOVA, Vera PETROVA, Pavlina NASKOVA, Dragomir PLAMENOV</b> .....	425
16. THE INFLUENCE OF SUBSTRATE TYPE ON THE PRODUCTION OF ASPARAGUS GROWN IN DIFFERENT ENVIRONMENTAL CONDITIONS - <b>Ovidiu MATEI, Ovidiu Ionuț JERCA, Elena Maria DRĂGHICI</b> .....	434
17. EVALUATION OF THE MAIN PHENOTYPIC AND PHYSICO-CHEMICAL CHARACTERISTICS IN THE NEW GENOTYPES OF JERUSALEM ARTICHOKE ( <i>HELIANTHUS TUBEROSUS</i> ) OBTAINED AT V.R.D.S. BUZĂU - <b>Geanina NEGOȘANU, Costel VÎNĂTORU, Elena BARCANU, Ovidia Loredana AGAPIE, Bianca TĂNASE, Ion GHERASE</b> .....	442
18. MICROELEMENTS STATUS IN CARROT ROOT ACCORDING TO DIFFERENT SALES AND PRODUCTION CHANNELS - <b>Marko PETEK, Ivona PAVIĆ, Tomislav KARAŽIJA, Mihaela ŠATVAR, Mirjana HERAK ĆUSTIĆ</b> .....	448
19. <i>IN VITRO</i> EFFECT OF ABAMECTIN FROM <i>STREPTOMYCES AVERMITILIS</i> ON THE SURVIVAL OF THE CYST NEMATODES <i>GLOBODERA PALLIDA</i> , <i>HETERODERA CAROTAE</i> AND <i>HETERODERA SCHACHTII</i> - <b>Nicola SASANELLI, Ion TODERAȘ, Elena IURCU-STRAISTARU, Alexei BIVOL, Ștefan RUSU, Alena KONRAT, Cristina ANDONI</b> .....	456

20. AUTOMATIC SORTING OF POTATOES ACCORDING TO THEIR DEFECTS - <b>Rodica SOBOLU, Mirela CORDEA, Ioana POP, Luisa ANDRONIE, Dana PUSTA</b> .....	462
21. RESEARCH ON PHENOTYPIC AND GENOTYPIC EXPRESIVITY OF BEAN VARIETIES OBTAINED AT VEGETABLE RESEARCH DEVELOPMENT STATION BUZĂU - <b>Bianca Elena TĂNASE, Costel VÎNĂTORU, Ovidia Loredana AGAPIE, Elena BARCANU, Geanina NEGOȘANU, Ion GHERASE</b> .....	469
22. GREENHOUSE PERENNIAL WALL-ROCKET CROP AS INFLUENCED BY MULCHING AND FERTILIZATION PRACTICES - <b>Gabriel-Ciprian TELIBAN, Gianluca CARUSO, Neculai MUNTEANU, Alexandru COJOCARU, Lorena-Diana POPA, Vasile STOLERU</b> .....	474
23. BEHAVIOUR OF THE SWEET PEPPER AT SHORT-TERM STORAGE, DEPENDING ON CROP FERTILIZATION SCHEDULE - <b>Mariana TOMA (SINGH), Simona POPESCU, Constanța ALEXE, Adrian CHIRA</b> .....	481
24. APPLICATION OF THE MATHEMATICAL MODEL HJ-BIPLLOT TO IDENTIFYING THE LINKS AMONG BIOACTIVE COMPOUNDS OF THE TOMATO VARIETY PANEKRA - <b>Nikolay VALCHEV, Miroslava IVANOVA, Antoniya STOYANOVA, Lilko DOSPATLIEV</b> .....	490
25. RESEARCH ON PHENOTYPIC AND BIOCHEMICAL VARIABILITY IN NEW GENOTYPES OF <i>PERILLA FRUTESCENS</i> - <b>Costel VÎNĂTORU, Adrian PETICILĂ, Elena BARCANU, Bianca MUȘAT, Camelia BRATU, Ovidia Loredana AGAPIE</b> .....	498
26. COMPARATIVE EVALUATION OF THE ECONOMIC EFFICIENCY BY THE APPLICATION OF BIPRODUCTS FOR FERTILIZING WITH BIOLOGICAL GROWING OF MIDDLE EARLY TOMATOES - <b>Plamena YANKOVA, Hriska BOTEVA</b> .....	504

#### **FLORICULTURE, ORNAMENTAL PLANTS, DESIGN AND LANDSCAPE ARCHITECTURE**

1. STUDIES AND RESEARCH ON THE SPECIES AND VARIETIES OF HOSTA IN CULTIVATION - <b>Ruxandra Ileana AELENEI, Sorina PETRA, Florin TOMA</b> .....	511
2. A HISTORY OF ORCHIDS. A HISTORY OF DISCOVERY, LUST AND WEALTH - <b>Nora Eugenia D. G. ANGHELESCU, Annie BYGRAVE, Mihaela I. GEORGESCU, Sorina A. PETRA, Florin TOMA</b> .....	519
3. ANALYSIS OF THE PRODUCTION OF BULB FLOWERS IN THE REGION OF STARA ZAGORA, BULGARIA - <b>Stanislava ATANASOVA</b> .....	531
4. COMPARATIVE STUDY OF FLOWER MORPHOLOGY AND FLOWERING PHENOLOGY IN SOME <i>HEMEROCALLIS</i> HYBRIDS - <b>Cezar BAHRIM, Maria APOSTOL, Gabriel TELIBAN, Neculai MUNTEANU, Liliana ROTARU, Lucia DRAGHIA</b> .....	537
5. VEGETATION HABITATS MAPPING IN VĂCĂREȘTI NATURAL PARC - <b>Vladimir Ionuț BOC, Bogdan MIHALACHE, Teodora-Iustina TUDOR, Luciana ZECA</b> .....	549
6. PARTIAL RESULTS ON THE LIFETIME OF FLOWERS IN VASES OBTAINED BY USING DIFFERENT SOLUTIONS OF SOME HERBACEOUS PEONY CULTIVARS - <b>George Nicolae CAZAN, Sorina PETRA, Florin TOMA</b> .....	554
7. STUDY REGARDING THE INFLUENCE OF SUBSTRATE TYPE ON SOME PARAMETERS OF GROWTH OF GERBERA SEEDLINGS - <b>Dragoș Emanuel DRĂGHICI, Sorina PETRA, Ovidiu Ionuț JERCA, Florin TOMA</b> .....	562

8. THE INFLUENCE OF SUBSTRATE TYPE ON GROWTH AND FLOWERING OF GERBERA PLANTS - <b>Dragoş Emanuel DRĂGHICI, Sorina PETRA, Florin TOMA, Ovidiu Ionuţ JERCA</b> .....	569
9. POSSIBILITIES FOR <i>EX SITU</i> CONSERVATION OF BULGARIAN ENDEMIC <i>BETONICA BULGARICA</i> DEGEN. & NEIČ. - <b>Neli GROZEVA, Galya PANAYOTOVA, Mariya GERDZHIKOVA, Mima TODOROVA</b> .....	578
10. STUDY OF THE INFLUENCE OF DIFFERENT SOWING PERIODS ON THE PHENOLOGICAL AND DECORATIVE CHARACTERISTICS OF <i>VERBASCUM THAPSUS</i> L. - <b>Valeria IVANOVA, Nikifor VALCHEV</b> .....	584
11. STUDY ON PHENOLOGICAL BEHAVIOURS OF <i>DAHLIA VARIABILIS</i> HORT. IN OVERWINTERING OF TUBEROUS ROOTS IN THE SOIL - <b>Valeria IVANOVA, Nadejda ZAPRJANOVA</b> .....	588
12. EVALUATION OF VEGETATIVE DEVELOPMENT AND DECORATIVE BEHAVIORS OF SOME <i>GLADIOLUS (GLADIOLUS HYBRIDA</i> L.) VARIETIES UNDER BULGARIAN CONDITIONS - <b>Valentin PANCHEV, Valeria IVANOVA, Nikolay PANAYOTOV</b> .....	592
13. <i>MERLINIUS BREVIDENS</i> (SIDDIQI, 1970) AND <i>MERLINIUS NOTHUS</i> (SIDDIQI, 1970) NEMATODES DETECTION AND IDENTIFICATION IN FLOWERING PLANTS GROWN IN GREENHOUSE - <b>Mariana RĂDOI, Florin TOMA</b> .....	597
14. ORNAMENTAL PLANTS SPECIES FROM SPONTANEOUS FLORA IN OLTENIA REGION, ROMANIA - <b>Daniel RĂDUŢOIU</b> .....	602
15. HERĂSTRĂU'S MAIN SOUTHERN AXIS. WHAT (EMBLEMATIC) IMAGE TO RESTORE? - <b>Ioana TUDORA</b> .....	608

#### MISCELLANEOUS

1. PHYSICO-CHEMICAL ANALYSIS OF CRANBERRY USING FT-IR SPECTROSCOPY - <b>Luisa ANDRONIE, Ioana POP, Ancuţa ROTARU, Rodica SOBOLU, Igori BALTĂ, Aurelia COROIAN, Adina Lia LONGODOR, Zamfir MARCHIŞ</b> .....	623
2. INVESTIGATION THE QUANTITY AND QUALITY OF ESSENTIAL OIL OF <i>ARTEMISIA VULGARIS</i> L. - <b>Monica Luminiţa BADEA, Elena DELIAN, Aurelia DOBRESCU, Liliana BĂDULESCU, Cosmin Alexandru MIHAI</b> .....	628
3. COMPARATIVE ANALYSIS BETWEEN MUSHROOMS <i>LACTARIUS PIPERATUS</i> AND <i>AGARICUS BISPORUS</i> (CHAMPIGNON) USING FT-IR SPECTROSCOPY - <b>Andreea BEBU, Luisa ANDRONIE, Alexandru MATIEŞ, Svetlana MICLE, Sorina DARJAN, Ovidiu CULCEAR</b> .....	633
4. OPTIMISATION OF OIL EXTRACTION FROM HALOPHYTE SP. SEEDS - <b>Carmen CONSTANTIN, Loubna HADHOUM, Mihaela ZUGRAVU, Muguraş CONSTANTIN, Aurora DOBRIN, Maria PARASCHIV, Liliana BĂDULESCU</b> .....	638
5. AN OVERVIEW ON BLUE LIGHT BENEFITS ON PLANTS PHYSIOLOGICAL PERFORMANCES AND ON PLANT PRODUCTS QUALITIES - <b>Silvana Mihaela DĂNĂILĂ-GUIDEA, Elena DELIAN</b> .....	643
6. MAPLES (GENUS <i>ACER</i> L.) OF "ALEXANDRU BELDIE" HERBARIUM - <b>Cristian Mihai ENESCU, Adrian PETICILĂ, Lucian DINCĂ, Şerban DAVIDESCU</b> .....	653
7. LEGUME-RHIZOBIAL SYMBIOSIS OF THE PANNONIAN CLOVER VARIETY ANIK USING COMPLEX MICROELEMENTS AND GROWTH REGULATORS - <b>Abnna KSHNIKATKINA, Albert GALIULLIN, Sergei KSHNIKATKIN, Pavel ALENIN</b> .....	659



8. THE EFFECT OF LED-S EMITTED LIGHT TREATMENTS ON SPROUTING MUNG BEAN ( <i>VIGNA RADIATA</i> L.) - <b>Oana LIVADARIU, Carmen MAXIMILIAN, Cristina-Iuliana COTEȚ</b> .....	665
9. SOME ASPECTS OF THE ANATOMICAL FEATURES OF THE MEDICINAL PLANT <i>AGASTACHE FOENICULUM</i> (PURSH) KUNTZE ( <i>LOPHANTHUS ANISATUS</i> (NUTT.) BENTH.) - <b>Vasilica LUCHIAN, Elena SĂVULESCU, Mariana TOMA, Nicolaie COSTACHE, Gabriela TEODOSIU, Vlad POPA</b> .....	671
10. SOIL ENZYMES - BIOINDICATORS OF SOIL HEALTH - <b>Maria-Mihaela MICUȚI, Aglaia POPA (BURLACU), Liliana BĂDULESCU, Florentina ISRAEL-ROMING</b> .....	679
11. THE EFFECT OF DIFFERENT FERTILIZATION UPON THE GROWTH AND YIELD OF SOME <i>LAVANDULA ANGUSTIFOLIA</i> (MILL.) VARIETIES GROWN IN SOUTH EAST ROMANIA - <b>Costel MIHALAȘCU, Valerica TUDOR, Ciprian BOLOHAN, Mircea MIHALACHE, Răzvan Ionuț TEODORESCU</b> .....	685
12. DEFENSIVE ROLE OF EXTRAFLORAL NECTARIES - <b>Vlad Ioan POPA, Ioana Mihaela GEORGESCU, Constantin Daniel POTOR, Dorel HOZA</b> .....	693
13. THE USE OF ARTIFICIAL SEED TECHNOLOGY IN THE PRODUCTION OF HORTICULTURAL PLANTS (REVIEW) - <b>Hadi Hoobi SHALLAL, Florin STĂNICĂ, Adrian George PETICILĂ, Ana Cornelia BUTCARU, Cătălina Ioana NICOLAE</b> .....	701
14. OBSERVATIONS ON THE STRUCTURE AND DYNAMICS OF CARBID SPECIES IN SOME APPLE TREE ORCHARDS ACCORDING TO THE GROWING AREA AND IN THE CONTEXT OF CLIMATE CHANGE - <b>Mihai TĂLMACIU, Nela TĂLMACIU, Monica HEREA</b> .....	712
15. AVANTGUARD OF ROMANIAN RESEARCH: <i>MURRAYA KOENIGII</i> L. - AN AMAZING FLOWER AND MEDICINAL PLANT - <b>Mariana TOMA, Vasilica LUCHIAN, Dorel HOZA</b> .....	717