

LIST OF CONTENTS

Preface	vi
List of contents	vii
List of authors	xi
List of participants	xiii
Biology, genetics and breeding: sustainable use of fruit genetic resources	
The origin of Asian pear cultivars inferred from DNA markers <i>Y. Teng, P. Yu, S. Bai and S. Jiang</i>	1
Occurrence of specific behaviour of growing pollen tubes in the ovary of the 'Pozna Plava' plum cultivar <i>M. Đorđević, R. Cerović, S. Radičević, N. Milošević, I.S. Glišić, S. Marić and M. Lukić</i>	7
Wild fruit trees in the Forest Park of Starčevica, Banja Luka, Bosnia and Herzegovina <i>M. Antić, G. Đurić and B. Bosančić</i>	13
Identification of <i>ACS1</i> , <i>ACO1</i> and <i>ETR1</i> alleles in some indigenous apple genotypes <i>S. Marić, S. Radičević, M. Lukić, M. Đorđević, O. Mitrović and I.S. Glišić</i>	19
Polymorphism study of local walnut population <i>S. Khokhlov, E. Panyushkina and V. Melnikov</i>	27
Cryopreservation of apple shoot tips by vitrification and subsequent plant regeneration <i>T. Vujović, Đ. Ružić and R. Cerović</i>	33
Phenotypic evaluation of peach seedlings after seed exposure to gamma radiation <i>A. Smykov, O. Fedorova, Iu. Ivashchenko and T. Shishova</i>	41
Structural features of vegetative organs in some <i>Ficus carica</i> L. cultivars cultured in vitro <i>O.V. Mitrofanova, V.A. Brailko, E.L. Shishkina and I.V. Mitrofanova</i>	47
Investigation of <i>S</i> -incompatibility breakdown in 'Karina' sweet cherry <i>S. Radičević, S. Marić, R. Cerović and M. Đorđević</i>	53
Evaluation study of the interspecific hybrids between <i>Prunus armeniaca</i> and <i>P. brigantina</i> in Nikita Botanical Garden <i>V. Korzin</i>	61
Uvometric characteristics of two Herzegovinian indigenous cultivars 'Žilavka' and 'Radovača' <i>T. Jovanović-Cvetković, G. Đurić, M. Cvetković and J. Davidović-Gidas</i>	67
Morphological and biological features of cherry plum hybrids <i>V.M. Gorina and L. Lukicheva</i>	73

How climate change is affecting fruit culture in silk road countries

Utilization value of <i>Sorbus</i> s.l. in Croatia and its potential enhancement <i>N. Jeran, V. Židovec, D. Dujmović Purgar, A. Vokurka, A. Mešić, K. Karlović and B. Duralija</i>	81
Evaluation of model for maturation prediction in apricot cultivars <i>M. Ruml and D. Milatović</i>	89
Effect of PRD on raspberry cultivation in pots <i>K. Lepaja, E. Kullaj, L. Lepaja and A. Zajmi</i>	93
Evaluation of olive cultivars with different photosynthetic activity of leaves <i>Yu. Ivashchenko, Iu. Ivashchenko and S. Tsiupka</i>	99
Evaluation of peach cultivars' leaf apparatus resistance to water deficit according to photosynthetic system condition <i>Iu. Ivashchenko, A. Smykov, Yu. Ivashchenko and O. Fedorova</i>	105
Spatio-temporal analysis of long-term (1961-2010) changes of temperature extremes in Serbia <i>M. Ruml, E. Gregorić, G. Matović, M. Vujadinović, V. Počuča and A. Vuković</i>	113
Economic and social impact of the fruit culture in the silk road countries; traditional uses of fruits in relation with health and nutrient traits	
Back to underutilized fruit crops in some East Mediterranean countries along the Silk Roads to cope with future challenges <i>L. Chalak, S. Baydoun and J. Tous</i>	121
Hazel cultivation in Bosnia and Herzegovina <i>G. Đurić, P. Ilić, G. Mičić and N. Mičić</i>	133
Preliminary evaluation of Cornelian cherry in Drvar valley (Bosnia and Herzegovina) <i>M. Maksić, S. Stanivuković, G. Mičić, J. Davidović-Gidas, J. Mastilović and G. Đurić</i>	141
Potential of peach genetic resources in the steppe of Crimea <i>T. Latsko</i>	151
Comparative analysis of the essential elements content in the <i>Chaenomeles</i> and apricot fruits <i>L.D. Komar-Tyomnaya, E.V. Dunaevskaya and V.M. Gorina</i>	157
The chemical compositions and quality of fruits in <i>Chaenomeles</i> breeding forms in the southern coast of the Crimea <i>L.D. Komar-Tyomnaya and O. Grebennikova</i>	163
The phenolic antioxidants of red wines from the southern coastal zone of Crimea: the role of the grape cultivar <i>S. Levchenko, E. Ostroukhova and I. Peskova</i>	169
Phenolic compounds in the Crimean autochthonous grape cultivars <i>S. Levchenko, V. Likhovskoi, I. Vasylyk and V. Volynkin</i>	181

The effects of putrescine on pomology, yield and biochemical characteristics of strawberry plants under deficit irrigation <i>N. Adak, A. Nasircilar and K. Ulukapi</i>	189
Morphological characterization of indigenous cultivars of plum in in situ conditions in Bosnia and Herzegovina <i>M. Kajkut Zeljković, N. Šević, S. Stanivuković, G.J. Mastilović and G. Đurić</i>	197
<i>Lycium barbarum</i> L. – a new cultivated species in Romania <i>D. Clapa, A. Fira, O. Borsai, M. Hârța, C.R. Sisea, A.F. Dumitraș and D. Pamfil</i>	205
In vitro propagation of <i>Aronia melanocarpa</i> (Michx.) Elliott <i>O. Borsai, D. Clapa, A. Fira, M. Hârța, K. Szabo, A.F. Dumitraș and D. Pamfil</i>	213
Orchard systems – cultivars, rootstocks, cultural practices, training systems	
Intensive apple fruit production in the Caucasian Mountain region <i>F. Štampar and V. Schmitzer</i>	223
Evaluation of growth and productivity of some European plum cultivars <i>D. Milatović, D. Đurović, G. Zec and Đ. Boškov</i>	229
Response of hydroponically-grown strawberry (<i>Fragaria × ananassa</i> Duch.) plants to different ratios of K:Mg in the nutrient solution <i>N. Adak</i>	235
The effects of drying temperature and dipping on prune quality <i>O. Mitrović, B. Popović, M. Kandić, A. Leposavić and N. Miletić</i>	241
Meta-analysis of hail netting effect on fruit firmness in 'Fuji' apple <i>B. Bosančić, M. Pecina and N. Mičić</i>	249
Influence of mulch on pear production <i>L. Lepaja, E. Kullaj, K. Lepaja and A. Zajmi</i>	259
Influence of shading effect on specific leaf weight of 'Fuji' and 'Gala' apples – meta-analysis <i>B. Bosančić, M. Pecina and N. Mičić</i>	265
'Anđelija' – a new red-skinned cultivar of European pear (<i>Pyrus communis</i> L.) released by the Fruit Research Institute, Čačak <i>I.S. Glišić, Ž. Karaklajić-Stajić, M. Lukić, S. Marić and O. Mitrović</i>	271
Fertilization biology of 'Reka' highbush blueberry <i>A. Leposavić, M. Đorđević, R. Cerović, S. Radičević, T. Vujović and D. Đurović</i>	279
Pomological traits and fruit quality of black currant (<i>Ribes nigrum</i> L.) cultivars as affected by soil management system <i>S.M. Paunović, M. Nikolić, R. Miletić, Ž. Karaklajić-Stajić, M. Milinković, J. Tomić and M. Pešaković</i>	285

Pollination and pollinators and phytosanitary issues in fruit culture

- Biological control against spider mites in strawberry greenhouses in Turkey 291
N. Topakcı and N. Adak
- Drosophila suzukii*: a new pest for fruit trees and its management strategies 297
N. Topakcı and U. Yukselbaba
- Use of a plastic rain-shield reduces gray mould (*Botrytis cinerea* Pers.) in 'Čačanska Bestrna' blackberry 303
Ž. Karaklajić-Stajić, R. Miletić, J. Tomić, M. Pešaković, S.M. Paunović and M. Milinković
- Spreading of *Aleurocanthus spiniferus* (Quaintance) (Hemiptera: Aleyrodidae) in coastal area of Montenegro 311
S. Radonjić and S. Hrnčić
- Fig viruses in Bosnia and Herzegovina 319
D. Delić, T. Elbeaino, B. Lolić and G. Đurić
- Evaluation of promising plum (*Prunus domestica* L.) genotypes for resistance to causal agents of the most important diseases 325
I.S. Glišić, S.A. Paunović, D. Milatović, D. Jevremović and N. Milošević
- Flourish of hazel cultivars (*Corylus avellana* L.) in the Banja Luka region (Bosnia and Herzegovina) and justifiability of using artificial pollination 333
P. Ilić, G. Đurić and N. Mičić
- Morphological and biological features of *Prunus persica* (L.) Batsch in connection with the manifestation of viral diseases symptoms 339
S.V. Shevchenko, V.A. Brailko and I.V. Mitrofanova
- Control of *Blumeriella jaapii* and determination of fungicide residues in sour cherry fruits 345
V. Božić, S. Vuković, S. Lazić, D. Šunjka and A. Žunić
- Use of cyantraniliprole in control of *Rhagoletis cerasi* in sweet cherry and its residues 349
S. Lazić, S. Vuković, D. Šunjka and A. Žunić
- Pests and pathogens of persimmon collection in Nikita Botanical Gardens 355
S. Khokhlov, V. Melnikov and E. Panyushkina
- Vulnerability of peach hybrid forms to leaf curl (*Taphrina deformans* (Berk.) Tul.) and powdery mildew (*Sphaerotheca pannosa* Lev. var. *persicae* Woronich) in Nikita Botanical Gardens 361
A. Smykov, O. Fedorova, Iu. Ivashchenko and N. Mesyats
- The effectiveness of biological and chemical fungicides in peach orchards in Crimea 367
S. Tsiupka, E. Balykina, O. Ivanova, O. Fedorova and D. Korzh