

PROGRAMME

Sunday 16 September

19.30 Welcoming reception at Hotel Goya

Monday 17 September

9.00 Registration

9.15 Invited lecture: FRUIT BREEDING IN SPAIN. Chair: M.L. Badenes

Fruit breeding in Spain. G. Llácer 18

10.00 Coffee break

10.30 Opening ceremony

11.00 Oral Session: BREEDING PROGRAMMES AND STRATEGIES. Chair: S. Sansavini

11.00 **“Fast breeding” in apple: a strategy to accelerate introgression of new traits into elite germplasm.** R. Volz*, E. Rokkering, P. Austin, T. Lawrence, N. De Silva and V.G. Bus 20

11.15 **Review of Pome Fruit Breeding in Europe; what strategies for the near future?** Yves Lespinasse 21

11.30 **Towards a strategy for phenotyping architectural traits in mature F₁ hybrids of an apple progeny.** V. Segura, J.J. Kelner, P.E. Lauri and E. Costes* 22

11.45 **Selection efficiency in apple breeding.** M. Kellerhals*, M. Spuhler, A. Patocchi and J. Frey 23

12.00 **Apricot variety development in California’s San Joaquin Valley.** C.A. Ledbetter* 24

12.15 **Apricot and peach breeding programs from the IVIA.** J. Martínez-Calvo, A. Font, G. Llácer and M.L. Badenes* 25

12.30 **Penta and Tardona: two new extra-late flowering self-compatible almond cultivars.** F. Dicenta *, E. Ortega, P. Martínez-Gómez, R. Sánchez-Pérez, M. Gambín and J. Egea 26

12.45 **New Polish winter cultivars of apple.** Andrzej A. Przybyla, Malgorzata Kantorowicz-Bak, Kazimierz Tomala 27

13.00 Lunch

14.30 Poster session

16.30 - 17.15 – 18.00 Field visits

16.30 Concurrent meetings

16.30 **Cultivar development.** Y. Lespinasse Room A

16.30 **European Rosaceae genome initiative.** P. Arús Main Room

17.15 **RosIGI.** S. Gardiner Main Room

17.00 **Small fruits.** E. van de Weg Room B

18.00 **Standardized Phenotyping in Rosaceae.** C. Peace Main Room

18.00 **Creation of an international working group on genetic engineering of apple and pear.** M. Malnoy Room B

18.30 Departure for Aljafería Castle

Tuesday 18 September

9.00 Oral Session: GERMPLASM AND BREEDING. Chair: G. Llácer

Invited lecture: Progress in evaluating <i>Malus sieversii</i> for disease-resistance and horticultural traits. P.L. Forsline, H.S. Aldwinckle, G.M. Volk, C.M. Richards, W. Janisiewicz and G. Fazio*	29
9.45 Establishment of a core collection to optimise the conservation of cherimoya (<i>Annona cherimola</i> Mill.) genetic resources using SSR information. P. Escibano*, M.A. Viruel and J.I. Hormaza	30
10.00 Cisgenesis is a promising approach for fast, acceptable and safe breeding of pip fruit. H.J. Schouten, J.M. Soriano, S.G. Joshi, A.J. Korststee, F.A. Krens, J.G. Schaart, K. van der Linden. A.C. Allan, R.P. Hellens, R.V. Espley, E. Jacobsen	31
10.15 Evaluation and use of pear genetic resources in a new interregional cooperative breeding programme focused on disease resistance and fruit quality. M. Lateur*, R. Stiévenard, A. Rondia, M. Lascoste and I. Villette	32
10.30 Fruit and berry gene banks- for research, breeding or public entertainment? H. Nybom* and L. Garkava-Gustavson.	33
10.45 Screening and field evaluation of dwarf Persian walnut genotypes. R. Rezaee, K. Vahdati*, V. Grigoorian and M. Valizadeh	34

11.00 Coffee break

11.30 Oral Session: PHYSIOLOGY. Chair: H. Nybom

11.30 QTL analysis for leaf gas exchange in an apple progeny grown under atmospheric constraints. J.L. Regnard*, V. Segura, N. Merveille, C.E. Durel and E. Costes	36
11.45 Self-incompatibility in Japanese apricot (<i>Prunus mume</i>). R. Tao	38
12.00 Characterization of S alleles and establishment of incompatibility groups in <i>Eriobotrya japonica</i> Lindl. L. Carrera*, J. Sanzol, M. Herrero and J.I. Hormaza	39
12.15 Transmission of flowering date in ‘Orange Red’ apricot cultivar. J.A. Campoy, D. Ruiz, J. Egea and P. Martínez-Gómez	40
12.30 Genotype-temperature interaction during the progamic phase in sweet cherry. A. Hedhly*, J.I. Hormaza and M. Herrero	41

13.00 Lunch

14.30 Oral Session: RESISTANCE BREEDING. Chair: C. Pozzi

Invited lecture: Resistance to root knot nematodes in <i>Prunus</i>: characterization of sources, marker-assisted selection and cloning strategy for the <i>Ma</i> gene from myrobalan plum. D. Esmenjaud	43
15.15 Biochemical and Genetical aspects involved in waterlogging tolerance in <i>Prunus</i> rootstocks. M.L. Amador, S. Sancho and M.J. Rubio-Cabetas*	44
15.30 Towards an understanding of the inheritance of hypersensitivity resistance against sharka virus in European plum (<i>Prunus domestica</i> L.): generation of interspecific hybrids with lower ploidy levels. M. Neumüller*, W. Hartmann and D. Treutter	45
15.45 Genetic mapping of QTLs involved in plum pox virus (PPV) resistance in the apricot ‘Stark Early Orange’ using different PPV strains and environmental	

	conditions; comparison with <i>P. davidiana</i>. P. Lambert*, J.M. Audergon, A. Bachellez, V. Decroocq, F. Dicenta, M. Foulongne, I. Karayannis, T. Pascal, J.L. Poëssel, V. Restier, M. Rubio and V. Shurdi-Levraud.....	46
16.00	Identification of cultivable bacteria from in vitro cultures of apple. H. Flachowsky and M.V. Hanke*	48
16.15	Saturation sequencing, characterisation and mapping of NBS-containing R genes in apple (<i>Malus x domestica</i> Borkh.). J. Mafofo*, M.M. van Dyk, A. Masiko, D.J.G. Rees	49
16.30 Coffee break		
17.00 Oral Session: <u>HiDRAS</u> . Chair: F. Laurens		
17.00	HiDRAS: an integrated European project adopting a pedigree-based approach to investigate apple fruit quality traits. L. Gianfranceschi*, F. Dunemann, K. Evans, C. Gessler, W. Guerra, M. Komjanc, M. Lateur, F. Laurens, M. Kellerhals, C. Ryder, S. Sansavini, K. Tomala, E. van de Weg, and E. Zurawicz.....	51
17.15	Estimation of genetic parameters of apple fruit quality traits using pedigreed plant material from eight European countries. A.B. Kouassi*, F. Laurens, F. Costa, S. Tartarini, K. Evans, F. Fernandez, C. Govan, A. Boudichevskaja, F. Dunemann, A. Antofie, M. Lateur, M. Stankiewicz-Kosyl, A. Soska, K. Tomala, M. Lewandowski, K. Rutkowski, E. Zurawicz, W. Guerra, E. Barbaro, D. Mott and C.E. Durel	53
17.30	Development of a set of apple SSRS markers spanning the apple genome, genotyping of HiDRAS plant material and validation of genotypic data. A. Patochi*, F. Fernandez, K. Evans, E. Silfverberg-Dilworth, C.L. Matasci, D. Gobbin, F. Rezzonico, A. Boudichevskaja, F. Dunemann, M. Stankiewicz-Kosyl, F. Matisse, V. Soglio, L. Gianfranceschi, C.E. Durel, C. Toller, V. Cova, D. Mott, M. Komjanc, E. Barbaro, F. Costa, R.E. Voorrips, T. Yamamoto, C. Gessler and E. van de Weg	55
17.45	QTL mapping in multiple, pedigreed populations: the concept and the framework of the statistical procedures. E. van de Weg*, H. Jansen, M. Bink, R. Voorrips, C.E. Durel, F. Laurens, F. Dunemann, K. Evans, A. Patochi, W. Guerra, M. Komjanc, M. Lateur, M. Kellerhals, C. Ryder, S. Sansavini, K. Tomala, E. Zurawicz and L. Gianfranceschi	57
18.00	Statistical tools for QTL mapping in multiple, pedigreed populations. M. Bink*, R. Voorrips, E. van de Weg and H. Jansen	59
18.15	QTL analysis of acidity in apple using pedigree-based approach. M. Stankiewicz-Kosyl, A. Nowicka, P. Krajewski, K. Tomala, A. Soska, F. Laurens, C. Govan, M. Lateur, F. Costa, S. Tartarini, W. Guerra, M. Lewandowski, K. Rutkowski, E. Zurawicz, L. Gianfranceschi, C.E. Durel, F. Mathis, E. Barbaro, D. Mott, A. Patocchi, D. Gobbin, F. Fernandez, K. Evans, F. Dunemann, A. Boudichevskaja, J. Jansen and E. van de Weg.....	60
18.30	Marker-assisted breeding (MAB) for fruit firmness and acidity. S. Tartarini*, F. Costa, W. Guerra, I. Hoeller, K. Evans, F. Fernandez, M. Kellerhals, C. Eigenmann, M. Korbin, S. Keller and E. van de Weg.....	62
18.45	Comparative translational genomics to target candidate genes impacting fruit quality in apple (<i>Malus x domestica</i> Borkh.). F. Costa*, R. Alba, V. Soglio, H.J. Schouten, L. Gianfranceschi, G. Costa, S. Sansavini and J. Giovannoni	63

Wednesday 19 September. Field visit

Orchard in La Almunia

Nursery in Calatayud
Monasterio de Piedra

Thursday 20 September

9.00 Oral Session: FRUIT QUALITY. Chair: T. den Nijs

Invited lecture: **The Ins and Outs of Tomato Fruit Peel Metabolome**. A. Aharoni..... 66

9.45 **Advances in fruit breeding in Eastern Canada – role of phytochemicals in designing specialty fruits**. S. Khanizadeh*, R. Tsao, D. Rekika, R. Yang, M.T. Charles and H.P.V. Rupasinghe 67

10.00 **Fruit quality in almond: physical aspects for breeding strategies**. R. Socias i Company*, J.M. Alonso and O. Kodad..... 68

10.15 **Cyanogenic glucoside patterns in almonds**. R. Sánchez-Pérez*, C.E. Olsen, F. Dicenta and B. L. Møller 69

10.30 **Micro-methods for genotypic screening of hazelnut (*Corylus avellana* L.) seeds to accelerate breeding for seed metabolite improvement**. L. Kuzmanovic*, M. Delfini, E. Rugini, P. Gutiérrez Pesce and C. De Pace 70

10.45 **Identification of flavonoid biosynthesis related transcription factors in strawberry**. J. Schaart*, R. de Vos, A. van Houwelingen and A. Bovy..... 71

11.00 Coffee break

11.30 Oral Session: FRUIT QUALITY. Chair: S. Khanizadeh

11.30 **Quality attributes of new peach and nectarine varieties under selection in the Ebro Valley conditions (Spain)**. C.M. Cantín*, J. Torrents, Y. Gogorcena and M.A. Moreno..... 74

11.45 **Rapid determination of quality attributes in apricot using infrared spectroscopy methods**. D. Ruiz*, M. Reich, S. Bureau, B. Gouble, M. Grotte, C.M.G.C. Renard and J.M. Audergon 75

12.00 **Toward the isolation of the *D* gene controlling the acidity of the peach fruit by positional cloning**. K. Boudehri, G. Cardiner, C. Renaud, Y. Tauzin, C. Troadec, D. Jublot, A. Moing, A. Bendahmane and E. Dirlewanger 76

12.15 **Estimation of genetic parameters and environmental effects from the French dessert apple breeding programme**. F. Laurens*, A. Kouassi, F. Lebreton and C. Pitior 77

12.30 **The IRTA-HR apple scion breeding programme: aiming for high fruit quality under warm growing conditions**. I. Batlle, L. Lozano, I. Iglesias, J. Carbó, J. Bonany, A. White, R. Weskett and R. Volz 164

12.45 **Metabolic engineering of flavonoid biosynthesis in apple (*Malus domestica* Borkh.)**. I. Szankowski*, H. Li, H. Flachowsky, T.C. Fischer, V. Hanke, G. Forkmann, D. Treutter, W. Schwab and T. Hoffmann..... 79

13.00 Lunch

14.30 Oral Session: MARKERS AND BREEDING. Chair: P. Arús

14.30	From EST database to genetic marker - a case study in apple. S. Gardiner*, D. Chagné, R. Volz, A. Allan, R. Easley, R. Schaffer, C. Carlisle, P. Austin, R. Crowhurst and R. Hellens	82
14.45	Genetic linkage map construction and the identification of QTL's affecting time and number of initial vegetative budbreak in apple (<i>Malus x domestica</i> Borkh.). M.M. van Dyk, I.F. Labuschagne and D.J.G. Rees*	83
15.00	Genetic mapping of fruit quality traits in apple (<i>Malus x domestica</i> Borkh). M.K. Soeker, M.M. van Dyk, I.F. Labuschagne and D.J.G. Rees	84
15.15	Nutritional enhancement in apple: identification of QTLs for antioxidants and their stability over different production years. M.W. Davey* and W. Keulemans	85
15.30	Reference genetic linkage maps for European and Japanese pears. T. Yamamoto*, S. Terakami, T. Kimura, Y. Sawamura, N. Takada, T. Hirabayashi, T. Imai and C. Nishitani	86
15.45	The ongoing peach genomics and functional genomics effort in Italy. C. Pozzi*, A. Vecchietti, B. Lazzari, C. Ortugno, F. Barale, G. De Bellis, C. Consolandi, A. Severgnini and F. Salamini.....	87
16.00	Physical map for peach, a genomic foundation for fruit tree genetics and breeding. A. Abbott*, T. Zhebentyayeva, G. Swire-Clark, L. Georgi, S. Forrest, B. Blackmon, J. Tomkins, V. Baird and G. Reighard	88
16.15	Md-ACS1 and Md-ACO1 genotyping on apple breeding parents and suitability for marker-assisted selection. Y. Zhu* and B.H. Barritt	89
16.30 Coffee break		
17.00 Oral Session: <u>MARKERS: BREEDING AND PATHOLOGY</u> . Chair: D. Esmenjaud		
17.00	Nomenclature of <i>Venturia inaequalis</i> races. V. Bus*, E. Rikkerink, H.S. Aldwinckle, C.E. Durel, S. Gardiner, C. Gessler, R. Groenwold, F. Laurens, B. Le Cam, J. Luby, M. Meulenbroek, L. Parisi, A. Patocchi, K. Plummer, H.J. Schouten, S. Tartarini and E. van de Weg.....	92
17.15	Pedigree-based mapping of scab resistance QTL in apple. V. Soufflet-Freslon, A.B. Kouassi, L. Laurens, F. Mathis, D. Gobbin, A. Patocchi, F. Rezzonico, K. Evans, F. Fernandez, A. Boudichevskaja, F. Dunemann, M. Stankiewicz-Kosyl, M. Komjanc, D. Mott, L. Gianfranceschi, W.E. van de Weg, M. Bink and C.E. Durel*.....	94
17.30	Identification and molecular characterization of V_f candidate genes in cultivated apples and selections from <i>Malus sieversii</i>. A. Boudichevskaja, H. Flachowsky and F. Dunemann*	96
17.45	Identification and validation of QTLs linked to fire blight resistance in <i>Malus</i> and their applicability in marker-assisted selection. M.A. Khan*, C.E. Durel, B. Duffy, D. Drouet, M. Kellerhals, C. Gessler and A. Patocchi	97
18.00	Genes differentially expressed during interactions of resistant and susceptible apple cultivars with the <i>Erwinia amylovora</i>. M. Malnoy*, A. Baldo, C. Carlisle, J.M. Celton, E.E. Borejsza-Wysocka, J.L. Norelli, R.E. Farrell, C.L. Bassett, S. Gardiner and H.S. Aldwinckle.....	98
18.15 Business meeting and closing of Symposium		
21.30 Farewell dinner		

Poster session: (Monday 17, 14,30) (by alphabetic order)

001	MOLECULAR MARKERS FOR CLONAL DISCRIMINATION AND SUSTAINABLE UTILIZATION OF PORTUGUESE GRAPEVINE CULTIVARS FOR WINE PRODUCTION. S.C. Cardoso*, P.S. Fevereiro, J.E. Eiras Dias	101
002	ECPGR WORKING GROUP ON <i>Malus</i> & <i>Pyrus</i> GENETIC RESOURCES : A UNIQUE OPPORTUNITY FOR EUROPEAN COLLABORATIONS. Marc Lateur*, Bronislovas Gelvonauskis, Robert Oger, Adriana Antofie, Emma-Jane Ellen, Markus Kellerhals, Enrique Dapena, Stefan Mader, Viola Hanke, Inger Hjalmarsson, Laila Ikase, Jan Blazek, Endrit Kullaj, François Laurens & Lorenzo Maggioni	102
003	INTERACTION BETWEEN PHENOTYPIC AND GENOMIC INFORMATION ON THE APPLE GENUS BY USING <i>APPLEBREED DATABASE TOOLS</i>. Adriana Antofie, Marc Lateur*, Eric van de Weg, Robert Oger.....	103
004	RESPONSE OF LOCAL AND SCAB-RESISTANT CULTIVARS TO THE WOOLLY APPLE APHID. M. Miñarro and E. Dapena*	104
005	EVALUATION OF THE RESISTANCE TO THE ROSY APPLE APHID USING A GENETIC MARKER. E. Dapena*, M. Miñarro and M.D. Blázquez	105
006	<i>Erwinia amylovora</i> SUSCEPTIBILITY OF COMMERCIAL APPLE CULTIVARS BASED ON FRUIT, SHOOT AND FLOWER INOCULATIONS. Annemarie Auwerkerken, Kristof Vrancken, Tom Deckers*, Hilde Schoofs* and Johan Keulemans	106
007	SCREENING FOR <i>BOTRYTIS CINEREA</i> RESISTANT APPLE CULTIVARS. Annemarie Auwerkerken, An Van den Putte, Mark Davey and Wannes Keulemans	107
008	GENETIC DIVERSITY OF S-RNase GENES IN EUROPEAN WILD APPLE (<i>Malus sylvestris</i>) AND OLD BELGIAN APPLE CULTIVARS (<i>Malus</i> x <i>domestica</i>). Rozemarijn Dreesen*, Gennaro Fazio, Katrien Luyten, Bartel Vanholme, Lobke Vanwynsberghe, Isabel Roldán-Ruiz and Johan Keulemans	108
009	IDENTIFICATION OF ‘MARCONA’ AND ‘DESMAYO LARGUETA’ CROSS-COMPATIBLE POLLINIZERS. P.J. Martínez-García, F. Mañas, F. Dicenta, E. Ortega,.....	109
010	STUDY OF ORIGIN AND DISPERSION OF THE CULTIVATED ALMOND BY USING NUCLEAR AND CHLOROPLAST DNA MARKERS. M. Zeinalabedini, K. Majourhat, M. Khayam-Nekoui, V. Grigorian, M. Torchi, F. Dicenta, P. Martínez-Gómez.....	110
011	MOLECULAR CHARACTERIZATION OF IRANIAN ALMOND CULTIVARS AND RELATED WILD SPECIES USING AMPLIFIED FRAGMENT-LENGTH POLYMORPHISMS (AFLPs). B. Shiran, K. Sorkheh, V. Rouhi, T.M. Gradzeil and P. Martínez- Gómez	111
012	ORIGINAL PEACH GERMPLASM FROM THE EBRO MIDDLE VALLEY IN THE CITA PEACH BREEDING PROGRAMME. J.M. Alonso, M.T. Espiau, J.M. Ansón, M. Carrera.....	112
013	CHILL AND HEAT REQUIREMENTS FOR BLOOMING IN THE CITA ALMOND CULTIVARS. J.M. Alonso* and R. Socias i Company	113
014	PREVIEW OF THE SECOND CLONAL SELECTION FROM THE AUTOCHTHONOUS PEACH POPULATION “AMARILLOS TARDÍOS DE CALANDA” (LATE YELLOW PEACHES OF CALANDA). J.L. Espada, J. Romero and J.M. Alonso.....	114

015	A NEW SELF-COMPATIBLE AND LATE-BLOOMING ALMOND SELECTION. R. Socias i Company, O. Kodad, J.M. Alonso and A.J. Felipe.....	115
016	FATTY ACID AND TOCOPHEROL CONCENTRATIONS IN ALMOND OIL AND ITS IMPLICATION IN A BREEDING PROGRAMME. O. Kodad and R. Socias i Company	116
017	S-ALLELE GENOTYPING OF LOCAL SPANISH ALMOND CULTIVARS. Ossama Kodad, Ana Sánchez, Margarida Oliveira and Rafael Socias i Company	117
018	REVIEW AND UPDATE OF SELF-INCOMPATIBILITY ALLELES IN ALMOND. O. Kodad and R. Socias i Company.....	118
019	CLONING OF SELF-COMPATIBLE <i>S^f</i> LOCUS IN ALMOND. T. Hanada, K. Fukuta, H. Yamane, R. Tao*, J.M. Alonso and R. Socias i Company	119
020	GROWTH CHARACTERISTICS OF THE SMALL-FRUIT MUTANT IN JAPANESE PERSIMMON (<i>Diospyros kaki</i> Thunb.). Hisayo Yamane*, Megumi Ichiki, and Ryutarō Tao ...	120
021	IN VITRO SANITATION OF PRUNUS ROOTSTOCKS TO THEIR USE AS HEALTHY GERMOPLASM. Bea Bielsa, Sara Sancho and M.J. Rubio-Cabetas	121
022	WATERLOGGING TOLERANCE AND ANTIOXIDANT STATUS IN PRUNUS ROOTSTOCKS. M.J. Rubio-Cabetas	122
023	ANALYSIS OF EXPRESSED SEQUENCE TAGS FROM JAPANESE PEAR ‘HOUSUI’. Chikako Nishitani*, Tokuro Shimizu, Hiroshi Fujii, Shingo Terakami and Toshiya Yamamoto ..	123
024	GENETIC DIVERSITY OF MUME, APRICOT AND JAPANESE PLUM CULTIVARS ASSESSED BY SSR MARKERS. K. Hayashi*, K. Shimazu, H. Yaegaki, M. Yamaguchi, C. Nishitani and T. Yamamoto	124
025	FUNCTIONAL CHARACTERIZATION OF <i>MdIUGE</i> ISOLATED FROM APPLE SKIN BY SSH. Y. Ban*, C. Honda, H. Bessho, T. Moriguchi	125
026	MORPHOLOGICAL AND HISTOCHEMICAL FEATURES OF COMPATIBLE AND INCOMPATIBLE STEM UNIONS IN VITRO. Ana Pina and Pilar Errea.	126
027	‘MONREPOS’. A NEW ROOTSTOCK FOR CHERRY. R. Gella and P. Errea.....	127
028	DETECTION OF QTLs CONTROLLING MAJOR FRUIT QUALITY COMPONENTS IN PEACH WITHIN THE EUROPEAN PROJECT ISAFRUIT. E. Dirlewanger*, G. Cardinet, K. Boudehri, C. Renaud, S. Monllor, C. Crosset, M. Maucourt, C. Deborde, J.L. Poëssel and A. Moing	128
029	AN INTEGRATED MAP OF THE APPLE GENOME BASED ON FOUR MAPPING POPULATIONS DEDICATED TO AN INTEGRATED QTL DETECTION. A. N’Diaye*, W.E. van de Weg, F. Dunemann, S. Tartarini and C.E Durel	129
030	PRODUCTION OF TRANSGENIC PEAR PLANTS EXPRESSING FERRITIN GENE WITH THE AIM TO REDUCE FIRE BLIGHT SUSCEPTIBILITY. Samia Djennane, Colette Cesbron, Sophie Sourice, Karine Loridon and Elisabeth Chevreau*	130
031	CHARACTERIZATION OF LENGTH POLYMORPHISMS AT THE 3’ UTR OF THE MALOIDEAE S-RNASE AND ITS APPLICATION FOR S-GENOTYPING IN EUROPEAN PEAR. Javier Sanzol	131
032	QTL ANALYSIS FOR GROWTH AND BRANCHING TRAITS ANNUALLY ASSESSED ALONG THE TRUNK IN A 3 YEAR OLD APPLE PROGENY. V. Segura*, C.-E Durel and E. Costes	132
033	JOINT EXPERIMENTS IN FRANCE AND CATALONIA OF NEW FLAT PEACHES-NECTARINES AND CANNING PEACHES FROM INRA. Pascal T., Iglecias I., Blanc P, Pitiot C.	133

034	ALMOND AND HAZELNUT CORE COLLECTIONS AS A TOOL FOR IMPROVING GENETIC RESOURCES UTILIZATION: THE EUROPEAN SAFENUT PROJECT. L. Bacchetta, D. Avanzato, R. Botta, P. Drogoudi, H. Duval, I. Metzidakis, M. Rovira, A.P. Silva, R. Socias i Company, A. Solar and D. Spera	134
035	EVOLUTION OF APRICOT FRUIT QUALITY ATTRIBUTES IN THE NEW RELEASED CVS. D. Tricon, D. Ruiz, H. Bourghiba, A. Blanc, B. Gouble, M. Grotte, C. Renard, M.Reich, S. Bureau, G. Clauzel, R. Brand, S. Semon and J.M. Audergon*	135
036	EVALUATION OF THE CURRENT APRICOT VARIABILITY IN TUNISIA IN COMPARISON WITH PREVIOUSLY DESCRIBED CULTIVARS. L. Krichen, N. Triffi-Farah, M. Marrakchi, J.M. Audergon*	136
037	NEW RECENT SELECTIONS ISSUED FROM INRA'S APRICOT BREEDING PROGRAM. J.M. Audergon*, A. Blanc, Gilles F., G.Clauzel, J.M. Broquaire, B. Gouble, M. Grotte, M. Reich, S. Bureau, C. Pitiot, S. Lafond	137
038	ISAFRUIT IP PROJECT - GENETIC AND MOLECULAR BASES OF PEACH AND APRICOT FRUIT QUALITY. J.M. Audergon*, A. Bachellez, A. Blanc, M. Bogé, K. Boudheri, S. Bureau, M.N. Corre, C. Croset, C. Deborde, E. Dirlewanger, L. Dondini, A.M. Ferréol, B. Gouble, M. Grotte, P. Lambert, M. Maucourt, A. Moing, S. Monllor, T. Pascal, J.L. Poëssel, B. Quilot, M. Reich, P. Reling, C. Renaud, D. Ruiz, V. Signoret, P. Arus	138
039	GENETIC AND MOLECULAR ANALYSIS OF THE APRICOT SELF-COMPATIBLE MUTANT 'KATY'. A. D. Gisbert, M. L. Badenes, G. Llácer and C. Romero*	139
040	SEARCHING FOR NEW METHODOLOGIES TO EVALUATE <i>PLUM POX VIRUS</i> RESISTANCE IN APRICOT. E. M. Vera-Ruiz*, M. L. Badenes, G. Llácer and C. Romero.....	140
041	CONSTRUCTION OF THE FIRST LOQUAT LINKAGE MAPS. A. D. Gisbert*, C. Romero, G. Llácer and M. L. Badenes	141
042	STUDIES ON THE SOMACLONAL VARIATION OF THE PERSIMMON (<i>Diospyros kaki</i> Thunb.) CV. 'ROJO BRILLANTE' AS A BREEDING TOOL. M. M. Naval*, E. Giordani G. Llácer and M. L. Badenes	142
043	MOROCCAN FIG GENETIC STRUCTURE SUGGESTING A LOCAL SELECTION. Hafid Achtak, Mohamed Ater, Ahmed Oukabli, Finn Kjellberg, B. Khadari	143
044	A GENETIC LINKAGE MAP OF <i>Olea europaea</i> L. USING A PSEUDO-TESTCROSS-MAPPING STRATEGY BASED ON SSR, AFLP, ISSR, RAPD AND SCAR MARKERS. Jamal Charafi , Amal Zine El Abidine*, Cinderella Grout, Bouchra Rahioui, Abdelatif El Meziane, Abdelmajid Moukhli, Belkacem Boulouha, Cherkaoui El Modafar and Bouchaib Khadari.....	144
045	A GENETIC LINKAGE MAP OF <i>Olea europaea</i> L. BASED ON SSR, ISSR, RAPD AND AFLP MARKERS: PRELIMINARY RESULTS. Bouchaib Khadari, Cinderella Grout, Agnès Doligez, Sylvain Santoni, Nathalie Moutier, Evelyne Costes and Françoise Dosba.....	145
046	A COMMON SET OF MICROSATELLITE MARKERS FOR FINGERPRINTING AND GENETIC DIVERSITY STUDIES IN <i>PRUNUS</i> SPECIES. A. Wünsch.....	146
047	IDENTIFICATION OF AFLP MARKERS LINKED TO SELF-COMPATIBILITY IN 'CRISTOBALINA' SWEET CHERRY. A.M. Cachi and A. Wünsch.....	147
048	S-ALLELE IDENTIFICATION IN JAPANESE PLUM VARIETIES BY PCR AND CROSS-POLLINATION. M.E. Guerra, J. Rodrigo, M. López-Corrales and A. Wünsch.....	148
049	POLLEN DEVELOPMENT AND CHILLING REQUIREMENTS IN APRICOT CULTIVARS. Carme Julian, Maria Herrero and Javier Rodrigo	149

050	PHYSIOLOGICAL RESPONSES OF SEVERAL FIG TRADITIONAL CULTIVARS UNDER WATER STRESS CONDITIONS . A.M. González-Rodríguez*, J. Peters and M.J. Grajal-Martín	150
051	USE OF THE PHYSIOLOGICAL BEHAVIOR OF MANGO ROOTSTOCKS CULTIVARS UNDER WATER STRESS FOR MANGO ROOTSTOCK BREEDING. M. J. Grajal-Martín*, J. Peters and A.M. González-Rodríguez.....	151
052	MORPHOLOGICAL AND HISTOLOGICAL CHARACTERISTICS RELATED WITH PHASE CHANGE (JUVENILE/ADULT) IN OLIVE LEAVES AND ITS DETERMINATION BY NEAR INFRARED REFLECTANCE SPECTROSCOPY. L. León*, A. Gracia, I. Moreno, R. De la Rosa and H.F. Rapoport	152
053	INTER-INCOMPATIBILITY RELATIONSHIPS IN OLIVE AS REVEALED BY PATERNITY TEST WITH SSR. E. Rodríguez-Castillo, A. Díaz, A. Belaj and R. de la Rosa ...	153
054	OUTCROSSING RATE AND STIGMATIC RECEPTIVITY IN CHERIMOYA (<i>ANNONA CHERIMOLA</i> MILL., ANNONACEAE) A DICHO GAMOUS SUBTROPICAL FRUIT TREE SPECIES. J. Lora, M. Herrero and J.I. Hormaza.....	154
055	REPRODUCTIVE BIOLOGY OF AVOCADO (<i>PERSEA AMERICANA</i> MILL) IN SOUTHERN SPAIN. M.L. Alcaraz and J.I. Hormaza.....	155
056	GENETIC ANALYSIS OF IRON CHLOROSIS TOLERANCE IN MYROBALAN PLUM X ALMOND-PEACH HYBRIDS. M.J. Gonzalo, E. Dirlwanger, F. Laigret, M.A. Moreno and Y. Gogorcena	156
057	THE EXTENT OF LINKAGE DISEQUILIBRIUM IN PEACH: A FIRST APPROACH. M.J. Aranzana*, W. Howad and P. Arús	157
058	ISAFRUIT: BIN MAPPING OF CANDIDATE GENES INVOLVED IN FRUIT QUALITY OF PEACH. E. Illa, P. Arús, E. Dirlwanger, L. Le Dantec and W. Howad*	158
059	ISAFRUIT: MAP SATURATION OF THE ADVANCED BC₂ POPULATION PEACH x <i>P. davidiana</i>. E. Illa*, W. Howad, P. Lambert, B. Quilot, J. M. Audergon, P. Arús.....	159
060	<i>In Silico</i> ANALYSIS AND FIRST APPLICATIONS OF SNPs FROM THE GDR DATABASE IN PEACH. C. Meneses*, S. Jung, P. Arús and W. Howad	160
061	QTL ANALYSIS OF PEACH FRUIT QUALITY: MAP CONSTRUCTION IN THREE BREEDING PROGENIES WITH SSR MARKERS. R. Picañol*, S. Alegre, J. Bonany, P. Arús and W. Howad.....	161
062	TOWARDS THE CREATION OF A PEACH-ALMOND NEAR-ISOGENIC LINE (NIL) COLLECTION. R. Picañol, W. Howad, S. Alegre, I. Batlle and P. Arús*	162
063	STANDARD TESTING AGREEMENT FOR FRUIT PLANT MATERIAL DEVELOPED BY EUFRIN WORKING GROUP. R. Stehr.....	163
064	TOWARDS NEW CULTIVARS OF ‘STEVNSBÆR’ SOUR CHERRIES IN DENMARK. Kell Kristiansen and Martin Jensen.....	251
065	RED FLESH BREEDING IN APPLE – PROGRESS AND CHALLENGES. Richard Volz, Nnadozie Oraguzie, Claire Whitworth, Natalie How, David Chagné, Charmaine Carlisle and Susan Gardiner.....	165
066	CHEMICAL, MOLECULAR AND GENETIC DETERMINISM OF ‘RIPE APPLE FLAVOUR’ IN ‘ROYAL GALA’. Susan Gardiner*, Aurélie Dimouro, Mukarram Mohammed, Daryl Rowan, Martin Hunt, Rosemary Weskett, Richard Newcomb, Edwige Souleyre, Richard Volz, David Chagné	166
067	VERIFYING PARENTS OF THE PILLNITZ APPLE CULTIVARS. S. Reim, H. Flachowsky, M.-V. Hanke* and A. Peil.....	167

068	PRELIMINARY RESULTS TO ESTABLISH THE DAAO SYSTEM AS ALTERNATIVE SELECTION STRATEGY ON APPLE. C. Hättasch*, M.-V. Hanke and H. Flachowsky	168
069	ISOLATION, MAPPING AND STUDIES ON mRNA EXPRESSION OF GENES INVOLVED IN FLORAL MERISTEM TRANSITION OF APPLE <i>Malus domestica</i> Borkh. C. Hättasch*, F. Dunemann, D. Kapturska, A. Peil, M.-V. Hanke and H. Flachowsky.....	169
070	GENETIC CHARACTERIZATION AND MAPPING OF THE MAJOR POWDERY MILDEW RESISTANCE GENE <i>Pibj</i> FROM <i>Malus baccata jackii</i>. F. Dunemann* and M. Schuster.....	170
071	SOUR CHERRIES <i>Prunus cerasus</i> L. WITH COLUMNAR TREE HABIT. M. Schuster.....	171
072	BREEDING POTENTIAL OF <i>Fragaria vesca</i> f. <i>alba</i> IN RESPECT TO VOLATILE COMPOUNDS. K. Olbricht*, C. Grafe, F. Würzburg, R. Drewes-Alvarez, E. Hoberg and D. Ulrich	172
073	MAPPING QUANTITATIVE CHARACTERS INVOLVED IN OCTOPLIOD STRAWBERRY FRUIT QUALITY. A. Monfort*, J. Bonet, D. Sánchez and P. Arús.	173
074	GENETIC TRANSFORMATION OF APPLE (<i>Malus x domestica</i>) WITHOUT USE OF A SELECTABLE MARKER GENE. M. Malnoy*, E.E. Borejsza-Wysocka, J.L. Norelli, M. Flaishman, D. Gidoni and H.S. Aldwinckle.....	174
075	USING A MULTI-VECTOR TRANSFORMATION SYSTEM FOR HIGH-THROUGHPUT GENERATION OF RNAi MUTANTS OF APPLE. Ewa E. Borejsza-Wysocka*, John L. Norelli, Mickael Malnoy, Robert E. Farrell, Carole L. Bassett and Herb S. Aldwinckle.....	175
076	HARMONISING FINGERPRINTING PROTOCOLS TO ALLOW COMPARISONS BETWEEN GERMLASM COLLECTIONS - <i>Malus</i> / <i>Pyrus</i> . K.M. Evans, F. Fernández, F. Laurens, L. Feugey, W. E. van de Weg.....	176
077	A STANDARD SET OF ACCESSIONS, MICROSATELLITES AND GENOTYPES FOR HARMONIZING THE FINGERPRINTING OF ECPGR COLLECTIONS OF CHERRY. J.B. Clarke*, K.R. Tobutt.....	177
078	PROTON TRANSFER REACTION-MASS SPECTROMETRY ANALYSIS IS A VALUABLE TOOL FOR THE IDENTIFICATION OF GENOMIC REGIONS RELATED TO VOLATILE ORGANIC COMPOUNDS. E.Zini, F.Biasioli, N.Araghipour, M.Kellerhals, D.Mott, E.Aprea., F.Gasperri, T.D.Märk, M.Komjanc* and C.Gessler	178
079	DEVELOPMENT AND MAPPING OF FUNCTIONAL MOLECULAR MARKERS FOR FRUIT QUALITY TRAITS IN <i>Malus x domestica</i> (Borkh.). Davide Perini*, Valentina Cova*, Sylwia Keller-Przybyłkiewicz, Marta Stankiewicz-Kosyl, Valeria Soglio, Matteo Komjanc and Luca Gianfranceschi	179
080	GENETIC STABILITY OF WILD PEAR (<i>Pyrus pyraster</i>, Burgsd) AFTER CRYOPRESERVATION BY ENCAPSULATION-DEHYDRATION. E. Condello*, MG Tonelli, MA Palombi, E. Caboni and C. Damiano.....	180
081	AN OPTIMIZED CDNA-AFLP PROTOCOL FOR THE IDENTIFICATION OF TDFS INVOLVED IN THE <i>Malus-Venturia inaequalis</i> INTERACTION. R. Paris, L. Dondini, S. Tartarini and S. Sansavini	181
082	APPLE FRUIT: IDENTIFICATION OF GENES SHOWING A MODULATED EXPRESSION DURING DEVELOPMENT. V. Soglio*, H. Schouten, F. Costa, D. Perini, L. Gianfranceschi	182
083	RETROTRASPOSON BASED MARKERS TO DISCRIMINATE SPORTS IN PEAR. S Venturi, P. De Franceschi, L. Dondini and S. Sansavini.....	183

084	GENE EXPRESSION PATTERNS OF RED COLOR SKIN IN BARTLETT PEAR (<i>Pyrus communis</i>) AND ITS BUD MUTATION MAX RED BARTLETT . L. Pierantoni*, L. Dondini, S. Musacchi, B.S. Wilkel, S. Sansavini.....	184
085	THE USE OF CENTRAL ASIAN APRICOT GERMPLASM TO IMPROVE FRUIT QUALITY IN CALIFORNIA ADAPTED APRICOTS. Craig A. Ledbetter*	185
086	QTL ANALYSIS FOR FRUIT QUALITY IN A F₁ APRICOT PROGENY. L. Dondini, M. Adami, P. De Franceschi, M. Rizzo, D. Vivoli, A. Cocchi, S. Tartarini, D. Bassi and S. Sansavini	186
087	PRESENT RESULT FROM SLOVAK APRICOT BREEDING PROGRAM. Daniela Benedikova.....	187
088	FOUR NEW SUMMER APPLES FROM THE CZECH REPUBLIC. Jan Blažek, František Paprštejn.....	188
089	CHANGES IN A RESPOND TO SCAB INFECTION (VENTURIA INAEQUALIS CKE. WINT.) WITHIN APPLE CULTIVARS DURING THE LAST 30 YEARS IN THE CZECH REPUBLIC. Jan Blažek*, František Paprštejn, Radek Vávra	189
090	PERFORMANCE OF 'GLOSTER' AND 'MELROSE' APPLE TREES ON CZECH ROOTSTOCKS AND M 9 CLONES. J. Kosina	190
091	NEW PEAR CULTIVARS FROM THE CZECH REPUBLIC. Frantisek Paprštejn*, Jan Blazek and Jiri Bouma	191
092	CHARACTERIZATION OF FRUIT GENETIC RESOURCES IN SWITZERLAND. David Szalatnay, Regula Bauermeister, Brion Duffy and Markus Kellerhals*	192
093	EXPRESSION OF CANDIDATES <i>AvrVg</i> GENES DURING APPLE SCAB INFECTION. G.A.L. Broggin, F. Di Gennaro, C. Gessler and A. Patocchi.....	193
094	PHYTOCHEMICAL DISTRIBUTION OF SELECTED APPLE LINES AND CULTIVAR FOR FRESH MARKET AND PROCESSING. Shahrokh Khanizadeh *, Li Ding , Rong Tsao , Djamila Rekika , Raymond Yang , MarieThérèse Charles and H.P. Vasantha Rupasinghe.....	194
095	'SJCA38R6A74' (EdenTM). Shahrokh Khanizadeh* ,Yvon Groleau, Audrey Levasseur and Marie Thérèse Charles, Rong Tsao, Raymond Yang, Jennifer DeEll, Cheryl R. Hampson and Peter Toivonen.....	195
096	BROWNING POTENTIAL OF NEW APPLE VARIETIES. Jennifer DeEll, Peter Toivonen, Shahrokh Khanizadeh, and Cheryl Hampson.....	196
097	ANTIOXIDANT ACTIVITIES OF NEWLY DEVELOPED DAY-NEUTRAL AND JUNE-BEARING STRAWBERRY LINES. Shahrokh Khanizadeh*, Shutian Tao, Shaoling Zhang, Rong Tsao, Djamila Rekika, Raymond Yang and Marie Thérèse Charles.....	197
098	'ST-JEAN D'ORLÉANS' STRAWBERRY. Shahrokh Khanizadeh*, Martine Deschênes, Audrey Levasseur, Odile Carisse, Marie Thérèse Charles, Djamila Rekika, Louis Gauthier, André Gosselin, Rong Tsao, Raymond Yang, Jennifer DeEll and J. Alan Sullivan	198
099	'HANHONG' PEAR. Maojun Zhang, Lihua Ding, Qiang Wang, Meiqi Feng, Guojie Xing and Shahrokh Khanizadeh*	199
100	DEVELOPMENT OF A FAST AND COMPACT BREEDING SYSTEM IN PEAR BY THE USE OF JUVENILE FREE TRANSGENIC PLANTS. Moshe A. Flaishman*, Yuval Cohen, Aviad Freeman, Sara Golubowicz, Raia Korchinsky and Zeev Yablowicz.....	200
101	TOWARDS QTL MAPPING IN MULTIPLE PEDIGREED CROSSES OF THE CULTIVATED, OCTOPOLOID STRAWBERRY: THE DEVELOPMENT OF A PUBLIC SSR MARKER LINKAGE MAP. Eric van de Weg, Yolanda Noordijk, Danny Esselink,	

	Linda Kodde, Paul Arens, Gerard van der Linden, René Smulders, Ton den Nijs, Bert Meulenbroek	201
102	XENIA, A NEW PEAR CULTIVAR FROM MOLDOVA, FIRST RESULTS IN THE NETHERLANDS. G. Peppelman ¹ , H. Kemp ¹ , V. Bucarciuc ² and O. Pasat ²	202
103	ESTIMATING USEFUL DIVERSITY IN THE NORWEGIAN CORE COLLECTION OF APPLES. Dag Røen and Kimmo Rumpunen*.....	203
104	ROSE HIP FLY (<i>Rhagoletis alternata</i> Fall) AND LEAF SPOT FUNGUS (<i>Sphaceloma rosarum</i> (Pass.) Jenkins) - EVENTUAL THREATS AGAINST ROSE HIP PRODUCTION?. Madeleine Ugglå* and Ulrika Carlson-Nilsson	204
105	EFFECT OF VARIOUS ROOTSTOCKS AND TREE SPACING ON THE SIZE OF FRUITS OF SWEET CHERRY cv. ‘VANDA’. Zygmunt S. Grzyb, Elżbieta Rozpara.....	205
106	LAST TWENTY YEARS OF BLACKCURRANT (<i>Ribes nigrum</i> L.) BREEDING WORK IN POLAND. S. Pluta and E. Żurawicz.....	206
107	THE INFLUENCE OF GENOTYPE ON GERMINATION OF APPLE SEEDS. Mariusz Lewandowski and Edward Zurawicz	207
108	<i>Malus</i> TAXA SELECTED IN HUNGARY, AS NEW GENE SOURCES OF RESISTANCE TO APPLE SCAB (<i>Venturia inaequalis</i> Cke. Wint.). Magdolna Tóth*, Júlia Halász, Andrzej Pedryc and Szilvia Kovács	208
109	RATIO OF HOMOZYGOUS AND HETEROZYGOUS <i>Vf</i> GENOTYPES IN PROGENIES OF <i>Vf/vf</i> x <i>Vf/vf</i> CROSSES. Ildikó Király*, Andreas Peil, Júlia Halász, Frank Dunemann, Magda-Viola Hanke Tamás Deák and Magdolna Tóth	209
110	SUITABILITY OF CLONE U 211 IN APPLE BREEDING CULTIVARS FOR SCAB AND MILDEW RESISTANCE. Emilian Pitera*, Marta Stankiewicz- Kosyl, Ryszard Dzieciół and Ilona Kacprzak	210
111	NEW POLISH VEGETATIVE ROOTSTOCKS-MUTANTS FOR APPLE. Andrzej A. Przybyła, Pawel Bielicki, Alojzy Czynczyk.....	211
112	SUSCEPTIBILITY OF PEAR CULTIVARS TO APPLE BLOSSOM WEEVIL (<i>Anthonomus pomorum</i> L.). Emilia Molenda, Emilian Pitera * and Agnieszka Mikuła.....	212
113	STATISTICAL ASSESSMENT OF THE AFFECTING FRUIT YIELD IN BLACKCURRANT (<i>Ribes nigrum</i> L.) BY YIELD COMPONENTS AND OTHER YIELD-CONTRIBUTING TRAITS. W. Madry, S. Pluta and E. Zurawicz.....	213
114	BIN MAPPING OF EST-SSRs AND EST-SNPs IN APPLE (<i>Malus x domestica</i> Borkh.). Maria M. van Dyk, John Baison, Paidashe Hove, Claudius Maronedze, Ashwil Klein, Khashief Soeker and D. Jasper G. Rees*	214
115	APPLE CULTIVAR AND ROOTSTOCK DEVELOPMENT FOR THE SOUTH AFRICAN SECOND ECONOMY TO ENHANCE ECONOMIC AND ENVIRONMENTAL SUSTAINABILITY. I. Labuschagne*, T. Koopman and S. Booï	215
116	INHERITANCE AND GENETIC ANALYSIS OF MOLECULAR MARKERS LINKED TO ALTERNARIA BLOTCH (A. MALI) RESISTANCE IN APPLE (<i>MALUS</i> SPP.). Daeil Kim *, Seong Heo, Yong Uk Shin, and Jeong Hwan Hwang	216
117	GROWTH HABIT CHARACTERIZATION OF <i>MdMADS2</i> GENE INTRODUCED TRANSGENIC APPLES (<i>Malus</i> sp.). Daeil Kim*, Seong Heo, Jeong-Hee Kim, Soon-Kee Sung, Woo Taek Kim and Jeong Hwan Hwang.....	217
118	‘SEOHONG’, EARLY HARVESTING HIGH QUALITY NEW APPLE CULTIVAR HAVING GOOD STORABILITY AND HIGHER FLAVONOIDS. Jeong Hwan Hwang*, Daeil Kim, Seong Heo, and Yong Uk Shin.....	218

119	NEW BELARUSIAN APPLE CULTIVARS WITH DURABLE RESISTANCE TO SCAB. Z.A. Kazlouskaya.....	219
120	EVALUATION OF APPLE PLANTS FOR WINTER RESISTANCE BY PEROXIDAZE IZOENZYME ANALYSIS. Z.A. Kazlouskaya and E.N. Biruk.....	220
121	GENETIC IMPROVEMENT OF APPLES AT FACULTY OF AGRICULTURE - NOVI SAD. V. Ognjanov.....	221
122	SELECTION OF TABLE CORNELIAN CHERRY (<i>Cornus mas</i> L.) GENOTYPES IN SERBIA . V. Ognjanov*, S. Cerović, Jelena Ninić-Todorović, Branka Gološin, Sandra Bijelić ...	222
123	A GENERALIZED PROCEDURE TO PREPARE PCR-GRADE DNA FROM DIFFERENT <i>Corylus avellana</i> L. PLANT TISSUES FOR PARENTAGE ANALYSIS. Lj. Kuzmanovic*, E. Rugini and C. De Pace.....	223
124	PLANT GENETIC RESOURCES INFORMATION SYSTEM AS A RESEARCH TOOL IN FRUIT AND BERRY CROP BREEDING. Gunars Lacis, Edite Kaufmane.....	224
125	SOURCES OF WINTER HARDINESS IN SWEET CHERRY BREEDING IN ESTONIA. K. Kask, H. Jānes, P. Ardel*.....	225
126	STABILITY OF MAIN APPLE CULTIVARS GROWN IN TRANSYLVANIA DETERMINED BY MEANS OF NONPARAMETRIC ANALYSES. Lukacs, L., M. Ardelean*, C. Botez, Rodica Pop, Mirela Cordea.....	226
127	RESPONSE OF PEAR GENOTYPES TO <i>Psylla</i> sp. ATTACK IN CENTRAL TRANSYLVANIA, ROMANIA. R. Sestras, C. Botez*, M. Ardelean, I. Oltean, A. Sestras.....	227
128	EVALUATION OF LOCAL PLUM VARIETIES (<i>Prunus domestica</i> L.) FROM ROMANIAN NATIONAL COLLECTION. Madalina Butac, Sergiu Budan*.....	228
129	EVALUATION OF THE NATIVE SWEET CHERRY GENOTYPES, „EX SITU” COLLECTED INTO ROMANIAN NATIONAL GERMPLASM. S. Budan ^{1*} , L. Petre ² , G. Gradinariu ³	229
130	INHERITANCE OF RED FRUIT FLESH AND SKIN COLOUR IN <i>Pyrus communis</i> CULTIVARS. Nicolae Braniste and Sergiu Budan*.....	230
131	PHENOTYPIC SELECTION ASSISTED BY MOLECULAR MARKERS FOR SCAB RESISTANCE IN APPLE. C. Botez*, R. Sestras, M. Ardelean, D. Pamfil, B. Patrascu, A. Sestras.....	231
132	KOSSARA – VERY EARLY SWEET CHERRY CULTIVAR. Argir Zhivondov*, Petya Gercheva.....	232
133	SOME RESULTS OF THE PEACH AND NECTARINE BREEDING PROGRAMME AT THE FRUIT-GROWING INSTITUTE IN PLOVDIV. Argir Zhivondov and Valentina Bozhkova.....	233
134	PRODUCTION OF TRANSGENIC PLUM CULTIVAR WITH INCREASED RESISTANCE AGAINST PLUM POX VIRUS. Roman Mikhaylov* and Sergey Dolgov.....	234
135	FRUIT-BEARING HABIT OF NINE SWEET CHERRY CULTIVARS. V. Dzhuvinov* and K. Kolev.....	235
136	YIELD COMPONENT OF CULTIVAR DIFFERENCES IN STRAWBERRY. F. Grigorova and V. Dzhuvinov*.....	236
137	SOME RESULTS OF STUDY CONCERNING “in vitro” TECHNIQUES OF BREEDING AND IMPROVEMENT TO <i>Prunus domestica</i> L. Marius-Mihai Vlad, Adela Barbulescu, Maria Neamtu, Alina Ilie, Andreea Petcu.....	237

138	EVALUATION OF GERMPLASM COLLECTION TO SOME FRUIT TREE VARIETIES, CONCERNING GENETIC RESISTANCE TO A BIOTIC FACTORS. Maria Neamtu, Adela Barbulescu, Andreea Petcu, Alina Ilie, Marius-Mihai.....	238
139	GENETIC DIVERSITY ANALYSIS AND MOLECULAR CHARACTERIZATION OF TUNISIAN FIGS (<i>FICUS CARICA</i> L.). K. Chatti, G. Baraket, O. Saddoud, M. Mars, A. Salhi-Hannachi, M. Marrakchi and M. Trifi.....	239
140	HETEROGENEITY OF ITS2 SEQUENCES OF NUCLEAR RIBOSOMAL DNA INTUNISIAN FIG (<i>Ficus carica</i> L.) CULTIVARS. Ghada Baraket, Olfa Saddoud, Khaled Chatti, Messaoud Mars, Mohamed Marrakchi, Mokhtar Trifi and Amel Salhi-Hannachi.....	240
141	POMOLOGICAL AND MOLECULAR POLYMORPHISM IN TUNISIAN FIG (<i>Ficus carica</i> L.) CULTIVARS. O. Saddoud, A. Salhi-hannachi, K. Chatti, G. Baraket, J. Hedfi, M. Mars, M. Marrakchi and M. Trifi.....	241
142	ASSESSMENT OF RELATIONSHIPS IN TUNISIAN POMEGRANATE (<i>Punica granatum</i> L.) CULTIVARS AS REVEALED BY POMOLOGICAL AND AFLP MARKERS. Rania Jbir*, Néjib Hasnaoui, Mohamed Marrakchi, Mokhtar Trifi and Messaoud Mars	242
143	GENETIC DIVERSITY AND TUNISIAN FRUIT CROPS: IMPLICATION OF THE DNA-BASED METHODS IN THE CONSERVATION AND BREEDING OBJECTIVES IN THESE SPECIES. M. Trifi*, S. Rhouma, S. Zehdi-Azouzi, O. Saddoud, G. Baraket, K. Chatti, A. Ould Mohamed Salem, R. Jbir, N. Hasnaoui, A. Rhouma, M. Mars, A. Salhi-Hannachi and M. Marrakchi	243
144	COMPARATIVE ANALYSIS OF GENETIC DIVERSITY IN TUNISIAN DATE-PALM COLLECTIONS BASED ON RANDOM AMPLIFIED POLYMORPHIC DNA AND INTER SIMPLE SEQUENCE REPEATS FINGERPRINTS. S. Zehdi-Azouzi*, S. Rhouma, A. Ould Mohamed Salem, A. Rhouma, M. Marrakchi and M. Trifi.....	244
145	COMPARATIVE ANALYSIS OF GENETIC DIVERSITY IN TUNISIAN DATE-PALM (<i>Phoenix dactylifera</i> L.) AS REVEALED BY <i>rapds</i> AND <i>aflps</i>. Rhouma Soumaya*, Ould Mohamed Salem Ali, Zehdi-Azzouzi Salwa, Rhouma Abdelmajid, Marrakchi Mohamed and Trifi Mokhtar.....	245
146	IDENTIFICATION OF S-ALLELES IN 25 SWEET CHERRY (<i>Prunus avium</i> L.) CULTIVARS BY ALLELE - SPECIFIC PCR AMPLIFICATION. Ahmad Ershadi* and Esfandiar Hasani Moghadam.....	246
147	CASUAL ANALYSIS OF KERNEL PERCENTAGE AND BLIGHT SUSCEPTIBILITY IN WALNUT POPULATIONS OF IRAN. K. Vahdati, S. Mohsenipoor, R. Amiri and M. Mozaffari.....	247
148	IDENTIFICATION OF S-ALLELES IN SEVERAL APPLE CULTIVARS. Kamila Bokszezanin, Andrzej Pałucha and Andrzej A. Przybyła.....	252
149	THE USE OF ROLLING CIRCLE AMPLIFICATION- RACE (RCA-RACE) FOR THE ISOLATION OF FULL-LENGTH GENES FROM PEACH (<i>Prunus persica</i>) INVOLVED IN FRUIT DEVELOPMENT AND THE STUDY OF THEIR ROLE IN PIT HARDENING AND SPLIT- PIT PROCESS. E. Tani, A.N. Poliodoros, A.S. Tsiftaris	253
150	CHANGES OF PROFILES OF GENES INVOLVED IN THE SYNTHESIS OF PHENOLIC COMPOUNDS DURING GRAPEVINE FRUIT RIPENING: THE ROLE OF LIGHT. F. Geuna, R. Banfi, F. Franzini, O. Failla, L. Mariani, A. Scienza.....	254