

**ISHS 8th International Cherry Symposium**  
**Yamagata, Japan, June 5-9**  
**Tentative Program**

**5th June 2017**

13:30	Registration desk open				
13:45-15:30	Technical Seminar	Current trends for growing sweet cherries in the USA: adoption of new orchard training systems, rootstocks, and varieties	Gregory A. Lang	USA	
		Turkish sweet cherry industry overview : Alara case	Senih Yazgan	Turkey	
18:30-20:00	Welcome Reception				

**6th June 2017**

8:30	Registration desk open				
9:00-10:15	Opening Ceremony / ISHS Award Ceremony				
10:15-10:45	Coffee Break				
10:45-12:15	Plenary Lecture Chair:Hideki Murayama	The cherry industries in the USA: current trends and future perspectives	Gregory A. Lang	USA	PL-1
		Cherry growing in China	Kai Chun Zhang	China	PL-2
		Sweet cherry growing in Japan : history, characteristics and future perspectives	Makoto Ishiguro	Japan	PL-3
12:15-13:45	Lunch				
Session 1	Breeding, Genetics and Biotechnology				
13:45-14:50	Oral Session (S1-1) Chair:Herman Silva	Present and future of marker-assisted breeding in sweet and sour cherry	Keynote speaker José Quero-García	France	S1-01
		Development of DNA marker for discriminate the flesh color in sweet cherry ( <i>Prunus avium</i> L.)	Yutaro Saito	Japan	S1-02
		QTL analysis and candidate gene mapping for harvest day in sweet cherry ( <i>Prunus avium</i> L.)	Kanji Isuzugawa	Japan	S1-03
		Draft genome sequence of sweet cherry ( <i>Prunus avium</i> L.)	Kenta Shirasawa	Japan	S1-04
14:50-15:35	Oral Session (S1-2) Chair:José Quero-García	Construction of a SNP marker saturated linkage map of 'Vic' x 'Cristobalina' in sweet cherry	Alejandro Calle	Spain	S1-05
		Genetic diversity of wild <i>Prunus pseudocerasus</i> populations from China based on SSR markers	Yuliang Cai	China	S1-06
		Sour cherries for fresh consumption	Mirko Schuster	Germany	S1-07
15:35-16:05	Coffee Break				

Session 2		Crop Production and Orchard Management			
16:05-16:55	Oral Session (S2-1) Chair:Károly Hrotkó	Research at the intersection of biology and technology: sweet cherry orchard systems of the future	Keynote Speaker Matthew Whiting	USA	S2-01
		Insights for orchard design and management using intensive sweet cherry canopy architectures on dwarfing to semi-vigorous rootstocks	Gregory A. Lang	USA	S2-02
		Training systems of sweet cherries in Belgium	Jef Vercammen	Belgium	S2-03
16:55-17:40	Oral Session (S2-2) Chair:Husnu Demirsoy	Training systems for high density cherry orchard in Trento province	Nicola Dallabetta	Italy	S2-04
		Partnering with the Australian cherry industry: a responsive and participatory extension approach	Robert Nissen	Australia	S2-05
		A precision pollination system for sweet cherry yield security	Matthew Whiting	USA	S2-06
17:40-18:25	Oral Session (S2-3) Chair:Gregory A. Lang	Canopy architecture assessment using cover photography and image analysis algorithms based on a variable light extinction coefficient modelled using artificial neural networks	Eden Tongson	Australia	S2-07
		Body structure and lateral branch shape of sweet cherry 'Satonishiki' capable of high-quality fruit production	Yoshiro Harada	Japan	S2-08
		How to get Ideal tree canopy in one-year-old whip trees in the sweet cherry orchard	Ali Riza Sahinoglu	Turkey	S2-09
18:25-19:25	Poster Sessions S1&S2 (S1: Breeding, Genetics and Biotechnology)	Allelic characterization of Chilean sweet cherry ( <i>Prunus avium</i> L.) germplasm by means of molecular markers associated with color, fruit size, maturity time and S-alleles	José Manuel Donoso	Chile	S1-P1
		New variety breeding progress of early ripening sweet cherry	Yanhua Zhao	China	S1-P2
		New results of sweet cherry breeding program in Holovousy (Czech Republic)	Martin Jonáš	Czech Republic	S1-P3
		Breeding of new sour cherry cultivars at the Research Institute of Horticulture, Skierniewice, Poland	Edward Zurawicz	Poland	S1-P4
		Genetic transformation of sweet cherry cultivars and rootstocks using sweet cherry Flowering locus T gene-expressing and Terminal flower 1 gene-silencing constructs: phenotype evaluation of transgenic trees	Evelyn Sánchez	Chile	S1-P5
		Cultivation of sour cherry in Korea and establishment of molecular resources for sour cherry by next-generation sequencing	Won Kyong Cho	Korea	S1-P6
		New ornamental cherry cultivars induced by heavy-ion beam irradiation	Tomoko Abe	Japan	S1-P7
		Firmness QTL mapping using an 'Ambrunés' x 'Sweetheart' sweet cherry population	Ana Wünsch	Spain	S1-P8
		Development of DNA markers for breeding yellow cherries	Kazuo Ikeda	Japan	S1-P9
		Selection of self-compatible progeny using allele-specific PCR detection in sweet cherry ( <i>Prunus avium</i> L.)	Eun Young Nam	Korea	S1-P10
		Improving sour cherry seed germination by the application of some external factors	Marek Szymajda	Poland	S1-P11
		Analysis of karyotype of nine cherry germplasms	Yanhua Zhao	China	S1-P12
		Evaluation of genetic variability within sweet cherry accessions of Czech genetic resources by molecular SSR markers	Josef Patzak	Czech Republic	S1-P13
		Genetic analysis of a germplasm collection with a set of SSR markers	Almudena Bayo-Canha	Spain	S1-P14
		A draft genome of <i>Prunus avium</i> cv Karina as a tool for genomic studies	Andréa Miyasaka Almeida	Chile	S1-P15
Sweet cherry ( <i>Prunus avium</i> L.) breeding program in southeast Spain	José Enrique Cos Terrer	Spain	S1-P16		

		Cloning of PcWRKY3 gene and its response to abiotic stresses in cherry rootstocks	Qingzhong Liu	China	S1-P17
Poster Sessions S1&S2 (S2: Crop Production and Orchard Management)		Foliar distribution of <sup>13</sup> C and <sup>15</sup> N in sweet cherry ( <i>Prunus avium</i> ) pedestrian training systems	Marlene Ayala	Chile	S2-P1
		The impact of root pruning on growth, yield and fruit quality of 'Kordia' sweet cherry	Martin Jonáš	Czech Republic	S2-P2
		First results on innovative cherry training systems	Nicola Dallabetta	Italy	S2-P3
		Effect of rain protective covering of sweet cherry orchard ( <i>Prunus avium</i> L.) on fruit quality and cracking	Radek Vávra	Czech Republic	S2-P4
		Effect of Biofrut® (GA <sub>3</sub> gibberellic acid) applications on fruit development stage III to increase fruit size at harvest and improve postharvest fruit condition in sweet cherry ( <i>Prunus avium</i> L.)	Carlos Jose Tapia	Chile	S2-P5
		Evaluation of sweet cherry production under modified UFO systems in southern warm region of China	Caixi Zhang	China	S2-P6
		Use of Stone Gross® (2,4 DP - diclorprop-p) to improve fruit retention in sweet cherry ( <i>Prunus avium</i> L.)	Carlos Jose Tapia	Chile	S2-P7
		The applicability of the new training systems for sweet cherries in Turkey	Husnu Demirsoy	Turkey	S2-P8
		Evolution of sweet cherry ( <i>Prunus avium</i> L.) industry in Chile	José Manuel Donoso	Chile	S2-P9
		Comparison of yearly productivity and tree formation labor in central leader, steep leader and Spanish bush types of 'Satonishiki' cherry on 'Colt' rootstock	Eun Young Nam	Korea	S2-P10
		Cherry production in Afghanistan	Mohammad Tariq Mohtasebzada	Afghanistan	S2-P11
	Effects of promalin application and bud management on leaf and shoot growth of young cherry trees	Husnu Demirsoy	Turkey	S2-P12	

7th June 2017					
8:30	Registration desk open				
Session 3	Rootstocks and Varieties Evaluation/Propagation				
9:00-9:50	Oral Session (S3-1) Chair:Martin Balmer	New cherry rootstock and cultivar interactions directly affect orchard profitability	Keynote Speaker Lynn Long	USA	S3-01
		The cherry production in Poland	Elzbieta Rozpara	Poland	S3-02
		Varieties and rootstocks in the cherry producing countries	Geza Bujdosó	Hungary	S3-03
9:50-10:35	Oral Session (S3-2) Chair:Lynn Long	Development of cherry growing in Shaanxi province of China P. R	Károly Hrotkó	Hungary	S3-04
		Selection of myrobalan rootstocks for sweet cherry	Flavio Roberto De Salvador	Italy	S3-05
		Evaluation of dwarfing cherry rootstocks in Rhenania Palatinate (Germany)	Martin Balmer	Germany	S3-06
10:35-11:05	Coffee Break				
		Quality changes of three sweet cherry cultivars during ripening on the tree and after harvest	Aline Clementine Ingabire	Japan	S3-07

11:05-12:05	Oral Session (S3-3) Chair:Elzbieta Rozpara	Cherry production in South Africa and new initiatives	Frederik Voigt	South Africa	S3-08
		Cherry production and research in Zhejiang Province, the warm winter and hot summer area in China	YanJun Wu	China	S3-09
		New sweet cherry ( <i>Prunus avium</i> ) varieties for Chile	Marlene Ayala	Chile	S3-010
Session 4	Nutrient and Irrigation				
12:05-12:55	Oral Session (S4-1) Chair:Matthew Whiting	Cherry nutrition: the balancing act of feeding fruit for high quality cherries	Keynote Speaker Dugald Close	Australia	S4-01
		Effects of single whole-volume application of fertilizers immediately after harvest on tree growth and fruit yield in sweet cherry	Takayuki Ando	Japan	S4-02
		Physiological characterization of re-oxygenation responses in mahaleb ( <i>Prunus mahaleb</i> L.) seedlings	Sijun Qin	China	S4-03
12:55-14:25	Lunch				
14:25-14:55	Oral Session (S4-2) Chair:Dugald Close	Application of an <i>Ecklonia maxima</i> seaweed product at two different timings can improve the fruit set and yield in 'Bing' sweet cherry trees	Pedro Larrain	Chile	S4-04
		Sweet cherry production in a controlled environment	Mekjell Meland	Norway	S4-05
Session 5	Tree Fruit Physiology, Plant Growth, and Floral Biology				
14:55-16:00	Oral Session (S5-1) Chair:Kenji Beppu	Recent advances in our understanding of the S-RNase-based gametophytic self-incompatibility system in <i>Prunus</i>	Keynote Speaker Ryutaro Tao	Japan	S5-01
		Genetic diversity and relatedness of sweet cherry cultivars based on incompatibility genotypes and simple sequence repeats	Congli Liu	China	S5-02
		Insights into the evolution and establishment of the <i>Prunus</i> -specific self-incompatibility recognition mechanism	Takuya Morimoto	Japan	S5-03
		Whole genome sequencing approach to identify pollen-part modifier conferring self-compatibility in sweet cherry 'Cristobalina'	Kentaro Ono	Japan	S5-04
16:00-16:30	Coffee Break				
16:30-17:15	Oral Session (S5-2) Chair:Daeil Kim	Single-base resolution methylome of a high chill and a low chill variety of sweet cherry ( <i>Prunus avium</i> ) during dormancy	Andréa Miyasaka Almeida	Chile	S5-05
		Dynamics of bud metabolites during dormancy in sweet cherry genotypes with contrasted chilling requirements	Rémi Beauvieux	France	S5-06
		Towards a better understanding of dormancy in sweet cherry flower buds using molecular and epigenetic approaches	Noémie Vimont	France	S5-07
17:15-18:00	Oral Session (S5-3) Chair:Andrea Miyasaka Almeida	Effect of temperature on B and C class MADS-box gene expression in flower buds of sweet cherry	Kenji Beppu	Japan	S5-08
		Melatonin may have an inhibitory role during the ripening of sweet cherries	Verónica Tijero	Spain	S5-09
		Anatomical and histochemical studies of maturation and polysaccharides or volatile organic compounds (VOCs) accumulation on Japanese wild cherry fruit following ethphon application	Shoichiro Omori	Japan	S5-010
		Preliminary physicochemical and sensory characterization of new 'Picota' type cherry varieties ( <i>Prunus avium</i> , L.)	Manuel Joaquín Serradilla Sánchez	Spain	S3-P1
		Fruit quality evaluation among the different cultivars of sweet cherry in Guizhou Province (China)	Xiaopeng Wen	China	S3-P2
		Sweet cherry cultivar testing in Slovenia	Valentina Usenik	Slovenia	S3-P3
		Testing of sweet cherry varieties in Belgium	Jef Vercaemmen	Belgium	S3-P4

18:00-19:00	Poster Sessions S3-S5 (S3: Rootstocks and Varieties Evaluation / Propagation)	Preliminary study of a hybrid progeny of 'Adara' ( <i>Prunus cerasifera</i> Ehrh.) rootstock	Gregorio López-Ortega	Spain	S3-P5
		Identification of cherry ( <i>Prunus sp.</i> ) rootstock using SSR markers	A Reum Han	Korea	S3-P6
		Search of suitable cultivars of cherry for cultivation in southwest warm region of Japan	Hiroyuki Itamura	Japan	S3-P7
		Phenotypic characterization of early ripening sweet cherry cultivars in Czech germplasm collection	Frantisek Paprstein	Czech Republic	S3-P8
		Evaluation of late ripening sweet cherry cultivars in Czech germplasm collection	Jiri Sedlak	Czech Republic	S3-P9
		Evaluation of sweet cherry cultivars grafted on Hungarian bred Mahaleb rootstocks	Geza Bujdosó	Hungary	S3-P10
		The evaluation of sour cherry landrace 'Latvijas Zemais' for rootstock and fruit production	Daina Feldmane	Latvia	S3-P11
	Poster Sessions S3-S5 (S4: Nutrient and Irrigation)	Response of 'Bing' sweet cherry grafted of different rootstocks under water deficit	Mauricio Ortiz	Chile	S4-P1
		Assessment of species richness and diversity of <i>Prunus sachalinensis</i> rhizosphere and bulk soil bacterial communities	Sijun Qin	China	S4-P2
		Sweet cherry under water deficit: physiological relationships between different combinations of rootstock and scion	Mauricio Ortiz	Chile	S4-P3
		Growth and productivity of sour cherry cultivated under wood chip mulch and drip irrigation	Daina Feldmane	Latvia	S4-P4
		Withholding near-harvest irrigation in sweet cherry has minimal effect on fruit quality	Matthew Whiting	USA	S4-P5
	Poster Sessions S3-S5 (S5: Tree Fruit Physiology, Plant Growth, and Floral Biology)	Transient transformation of sweet cherry ( <i>Prunus avium</i> L.) pollen with the hairpin gene construct targeting S haplotype-specific F-box, the pollen S determinant of <i>Prunus</i> self-incompatibility	Daiki Matsumoto	Japan	S5-P1
		Phenolic profile of pollen collected from different Oblačinska sour cherry ( <i>Prunus cerasus</i> L.) clones	Mekjell Meland	Serbia	S5-P2
		Organic acid transporters in vacuolar membrane of cherry	Megumi Fukui	Japan	S5-P3
		Determination of self-incompatible genotypes in sweet cherry accessions of Czech genetic resources	Josef Patzak	Czech Republic	S5-P4
		Validation of miRNAs involved in regulation of gene expression associated with dormancy and cold requirement in sweet cherry ( <i>Prunus avium</i> )	Evelyn Sánchez	Chile	S5-P5
		Relationship between juvenility and FLOWERING LOCUS C homologs in rosaceous fruit trees	Tomoki Shibuya	Japan	S5-P6
		Effects of chilling accumulation on DORMANCY-ASSOCIATED MADS-box gene expressions in sweet cherry 'Satonishiki'	Kanae Masuda	Japan	S5-P7
Roles of the DREB and LEA14 homologs from rosaceous fruit trees		Ryouta Itai	Japan	S5-P8	
Pollen meiosis and chilling requirements in sweet cherry		Erica Fadón	Spain	S5-P9	
Effects of H <sub>2</sub> S on ascorbate-glutathione cycle in sweet cherry stigma and ovary under low temperature stress		Guoqin Wei	China	S5-P10	
Effect of blue light on red color development and anthocyanin accumulation of sweet cherry		Osamu Arakawa	Japan	S5-P11	
Variation in the period of flower differentiation and the time of blooming in Japanese flowering-cherries		Tomoya Esumi	Japan	S5-P12	
Proline content and related gene expression in response to seasonal temperature variation in three <i>Rosaceae</i> fruit trees	Daeil Kim	Korea	S5-P13		

8th June 2017						
8:30	Registration desk open					
Session 6	Physiological Disorder and Pests and Diseases Management					
9:00-9:50	Oral Session (S6) Chair:Hideo Bessho	Bioinformatics and molecular analysis of factors involved in fruit development and cracking tolerance in different varieties of sweet cherry	Keynote Speaker Herman Silva	Chile	S6-01	
		Preventing cherry cracking by innovative management strategies	Berta Gonçalves	Portugal	S6-02	
		Effects of hydrogen cyanamide on physiological changes during endo-dormancy releasing and flowering of sweet cherries in warm region	Caixi Zhang	China	S6-03	
9:50-10:20	Coffee Break					
Session 7	Postharvest Technology, Fruit Quality, Health Related Issues					
10:20-10:55	Oral Session (S7-1) Chair:Ryutaro Tao	Pre- and postharvest tools to maintain sweet cherry quality for fresh market: eating quality and health-promoting properties	Keynote Speaker Fabián Guillén and Daniel Valero	Spain	S7-01	
		Nuclear magnetic resonance as a tool for the assessment of postharvest changes in the metabolome of the skin of sweet cherry ( <i>Prunus avium</i> L.)	Rajko Vidrih	Slovenia	S7-02	
10:55-11:25	Oral Session (S7-2) Chair:Rajko Vidrih	Anatomical and histochemical studies of abscission process on the juncture tissues between peduncles and fruits on cherry	Takahiro Yamada	Japan	S7-03	
		Effect of gibberellic acid on cracking, maturity and fruit quality of sweet cherry trees	Karen Sagredo Urrea	Chile	S7-04	
11:25-12:10	Poster Sessions S6&S7 (S6: Physiological Disorder and Pests and Diseases Management)	Effect of abscisic acid (ABA) applications on cracking tolerance and fruit quality of sweet cherry (cv. Bing)	Cristian Balbontin	Chile	S6-P1	
		Impacts of the invasive insect pest, spotted wing drosophila (SWD) ( <i>Drosophila suzukii</i> ), on the Michigan sour cherry industry	Nikki Rothwell	USA	S6-P2	
		Effects of harvesting time on development of 'water-core' in Japanese sweet cherry cultivars	Yoshihiko Sekozawa	Japan	S6-P3	
		Metabolomic profiling of two contrasting sweet cherries varieties to display surface pitting	Oscar Aliaga	Chile	S6-P4	
		Effect of methyl jasmonate (MeJA) applications on cracking tolerance and fruit quality of sweet cherry (cv. Bing)	Cristian Balbontin	Chile	S6-P5	
		Gummosis and leaf abscission in Yoshino cherry ( <i>Prunus yedoensis</i> ): Relevance to hormonal regulation and chemical composition of gums	Kensuke Miyamoto	Japan	S6-P6	
		Molecular characterization of the coat protein gene of Prunus necrotic ringspot virus infecting sweet cherry in China Shandong	Qingzhong Liu	China	S6-P7	
		Effects of microclimate around fruit and number of leaves per fruit on fruit quality in sweet cherry ( <i>Prunus avium</i> L. 'Satonishiki'), with special reference to 'Urumi' appearance	Satoshi Taira	Japan	S6-P8	
	Poster Sessions S6&S7 (S7: Postharvest Technology, Fruit Quality, Health Related Issues)	Protection of radiative frost damage of sweet cherries in blooms by rain covers	Radek Vávra	Czech Republic	S7-P1	
		Differences in metabolite contents among cherry varieties	Akira Oikawa	Japan	S7-P2	
		Analysis of flavor compounds in Japanese cherries using a solvent-assisted stir bar sorptive extraction method	Katsura Sekiguchi	Japan	S7-P3	
		Effect of physical damage on physiological changes of sweet cherry fruit	Abdul Ghafar Sediqi	Afghanistan	S7-P4	
	12:10-13:40	Lunch				

13:40-15:10	Sponsor's Presentation
15:20-16:20	ISHS Business Meeting
16:30-17:00	Closing Ceremony
19:00-21:00	Gala Dinner

9th June 2017	
8:30-17:30	Technical Tour