

VI International Symposium on Cucurbits

July, 1

9.00-9.30		Welcome by conveners + introduction ISHS by Daniel Leskovar, USA
Session 1		Genetic resources and breeding technologies – Chair: Marisa Guillamón, Spain
9.30-9.50	O1	Origin of the Zucchini Squash, <i>Cucurbita pepo</i> subsp. <i>pepo</i> Zucchini Group <u>Harry S. Paris</u> ¹ , Teresa Lust ² ¹ A.R.O. Neve Ya'ar Research Center, Ramat Yishay, Israel, ² Dartmouth College, Rassias Center for World Languages and Cult, Hanover NH, USA
9.50-10.10	O2	Ancient origin of bicolor fruit in <i>Cucurbita moschata</i> <u>Thomas Andres</u> ¹ , Harry S. Paris ² ¹ The New York Botanical Garden, Science, Bronx NY, USA; ² A.R.O. Neve Ya'ar Research Center, Ramat Yishay, Israel
10.10-10.30	O3	Update on cucurbit breeding at the World Vegetable Center <u>Narinder Dhillon</u> ¹ ¹ World Vegetable Center, East and Southeast Asia, Kasetsart University, Kamphaeng Saen, Thailand
10.30-10.50	O4	Different molecular marker systems in RIL population for resistance of <i>Podosphaera xanthii</i> in melon <u>Abdullah Unlu</u> ¹ , Aytul Kitpadi ¹ , Pinar Akkelle ² , A. Naci Onus ² , Ilknur Polat ¹ , Mine Unlu ¹ , Rana Kurum ¹ , H. Filiz Boyaci ¹ ¹ Bati Akdeniz Agricultural Research Institute, Antalya, Turkey; ² Akdeniz University, Antalya, Turkey
10.50-11.15		Coffee break
11.15-11.35	O5	Production of doubled haploid plants of Cucurbitaceae family crops through unpollinated ovule culture in vitro Elena Domblides ¹ , Natalia Shmykova ² , Galina Khimich ¹ , Irina Korotseva ¹ , Ludmila Kan ¹ , Alexey Ermolaev ¹ , Sergey Belov ¹ , Kseniya Korotseva ¹ , <u>Arthur Domblides</u> ¹ , Victor Pivovarov ¹ and Alexey Soldatenko ¹ ¹ FSBSI Federal Scientific Vegetable Center, Moscow, Russian Federation ; ² Innovative Pharmacology Research (IPHAR), Tomsk, Russian Federation
11.35-11.55	O6	Comparative genomics of cucumber lines obtained by transgenesis and regeneration in vitro <u>Agnieszka Skarzynska</u> ¹ , Magdalena Pawelkowicz ¹ , Maria Szwacka ¹ , Grzegorz Bartoszewski ¹ , Wojciech Plader ¹ ¹ Department of Plant Genetics, Breeding and Biotechnology, Warsaw University of Life Sciences, Warsaw, Poland
11.55-12.15	O7	A vector based on cucumber green mottle mosaic virus for virus-induced gene silence in cucurbit plants <u>Qinsheng Gu</u> ¹ ¹ Henan Key Laboratory for Fruit and Cucurbit Biology, Zhengzhou, China
12.15-13.15		Lunch break
13.15-14.30		Poster session 1, 2, 7 and 8
Session 2		Protected cultivation – Chair Peter Bleyaert, Belgium
14.30-15.10	O8	KEYNOTE: New developments and challenges of cucumber production in western and northern countries <u>Irene Vänninen</u> ^{1,2} ¹ Ostrobothnian Swedish Growers' Association, Vaasa, Finland, ² Natural Resources Institute, Finland

15.10-15.30	O9	<p>Can LED successfully replace HPS in a high wire winter crop of cucumber? <u>Jonas De Win</u>¹; Stefaan Fabri¹; Hendrik-Jan Van Telgen²; Conny Vervoort²; Jeroen van Roy³; Fjo De Ridder³; Lieve Wittemans¹ ¹ <i>Research Station for Vegetable Production, Sint-Katelijne Waver, Belgium</i>; ² <i>Innoveins, Venlo, The Netherlands</i>; ³ <i>Knowledge centre Energy, Thomas More, Geel, Belgium</i></p>
15.30-16.00		Coffee break
16.00-16.20	O10	<p>Effects of organic farming practices on yield and quality of 'barattiere', a local variety of <i>Cucumis melo</i> L. from Puglia (Southern Italy) Mariano Fracchiolla¹, <u>Angelo Signore</u>¹, Cesare Lasorella¹, Massimiliano Renna¹, Pietro Santamaria¹, Eugenio Cazzato¹ ¹ <i>Department of Environmental and Agro-Forestry Biology and Chemistry, Sect. Genetic and Plant Breeding, University of Bari, Italy</i></p>
16.20-16.40	O11	<p>How cucumber cultivation can contribute to a sustainable fish production Saskia Buysens¹; <u>Sara Crappé</u>¹ ¹ <i>Vegetable Research Centre, Kruishoutem, Belgium</i></p>
16.40-17.00	O12	<p>Remote control of greenhouse cucumber production with artificial intelligence ' results from the first international autonomous challenge with focus on production <u>Anne Elings</u>¹, Isabella Righini¹, Feije de Zwart¹, Silke Hemming¹ ¹ <i>Wageningen UR Greenhouse Horticulture, Wageningen, The Netherlands</i></p>
17.00-17.20	O13	<p>Importance of a sufficiently high daily temperature to prevent male flower shortage in zucchini (<i>Cucurbita pepo</i> L.) <u>Simon Craeye</u>¹; An Decombel¹; Stefaan Fabri²; Peter Bleyaert¹ ¹ <i>Inagro, Rumbeke-Beitem, Belgium</i>; ² <i>Research Station for Vegetable Production, Sint-Katelijne Waver, Belgium</i></p>
17.30-19.00		Group photo + Belgian Beer tasting

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Session 3		Mycology – Chairs: Ales Lebeda, Czech Republic and Rudi Aerts, Belgium
8.30-9.10	O14	<p>KEYNOTE: The CucCAP project: Leveraging applied genomics to improve disease resistance in cucurbit crops</p> <p><u>Rebecca Grumet</u>¹, Zhangjun Fei², Yiqun Weng^{3,4}, Amnon Levi³, James McCreight³, Michael Mazourek⁵, Xin Wang², Ben Mansfeld¹, Shaker Kousik³, Kai-Shu Lin³, Cecilia McGregor⁶</p> <p>¹ Michigan State University, USA; ² Boyce Thompson Inst for Plant Research, USA; ³ USDA-ARS, USA; ⁴ University of Wisconsin, USA; ⁵ Cornell Univers, USA; ⁶ University of Georgia, USA</p>
9.10-9.30	O15	<p>The mechanism of resistance to <i>Fusarium oxysporum</i> f. sp. Niveum race 1 in tetraploid watermelon</p> <p><u>Wen Ge Liu</u>¹, Hongju Zhu¹, Xuqiang Lu¹, Xuqiang Lu¹, Shengjie Zhao¹, Nan He¹, Lihua Geng²</p> <p>¹ Zhengzhou Fruit Research Institute, Chinese Academy of Agricultural Science, Zhengzhou, China; ² Vegetable Research Center, Beijing Academy of Agriculture and Forestry Sciences, Beijing, China</p>
9.30-9.50	O16	<p><i>Didymella bryoniae</i> in cucumber: a complete control strategy</p> <p>Jonas De Win¹, Sofie Van Laethem², Rudi Aerts², Mario Frans², Stefan Van Kerckhove³, Anneleen Paeleman³, Sofie Verhelst⁴, Peter Bleyaert⁴, Stefanie De Groote⁵, Stefaan Fabri¹</p> <p>¹ Research Station for Vegetable Production, Sint-Katelijne-Waver, Belgium; ² Department of Biosystems, KU Leuven, Geel, Belgium; ³ Scientia Terrae, Sint-Katelijne-Waver, Belgium; ⁴ Inagro, Rumbeke-Beitem, Belgium; ⁵ Provincial Research Centre for Vegetables East-Flanders, Kruishoutem, Belgium</p>
9.50-10.10	O17	<p>Variation in the response of melon and watermelon to the charcoal rot disease caused by <i>Macrophomina phaseoliona</i></p> <p><u>Roni Cohen</u>¹, Meital Elkabetz¹, Joseph Burger¹, Amit Gur¹</p> <p>¹ Agricultural Research Organization, Neve Ya'ar Research Center, Ramat Yishay, Israel</p>
10.10-10.40		Coffee break
10.40-11.00	O18	<p>Virulence variation of <i>Pseudoperonospora cubensis</i> on the level of pathotypes and races</p> <p>Ales Lebeda¹, Eva Kristkova¹, <u>Bozena Sedlakova</u>¹</p> <p>¹ Department of Botany, Palacky University Olomouc, Olomouc-Holice, Czech Republic</p>
11.00-11.20	O19	<p>Identification of candidate genes for quantitative downy mildew resistance in cucumber</p> <p><u>Henk Schouten</u>¹, Jeroen Berg¹, Freddy Hermans², Wim Vriezen², Yuling Bai¹</p> <p>¹ Wageningen University Research, Wageningen, The Netherlands; ² Nunhems (BASF), Nunhem, The Netherlands</p>
11.20-11.40	O20	<p>UV-C light to control powdery mildew in cucumbers</p> <p><u>Jonas De Win</u>¹, Stefaan Fabri¹, Sophie Nawara¹</p> <p>¹ Research Station for Vegetable Production, Sint-Katelijne-Waver, Belgium</p>
11.40-12.40		Poster session 3, 4, 5 and 6
12.40-13.30		Lunch break
Session 4		Fruit Quality – Chair: Xingfang Gu, China
13.30-14.10	O21	<p>KEYNOTE: Carotenogenic lessons from our product-oriented research of cucurbits</p> <p><u>Yaakov Tadmor</u>¹, Noam Chayut², Arthur Schaffer³, Nurit Katzir¹, Efrai, Lewinsohn¹, Amit Gur¹, Li Li⁴, Ralf Welsch⁵, Uzi Saar¹, Ayala Meir¹, Fabian Baumkoler¹, Shachar Ohaly¹, Yosi Burger¹.</p> <p>¹ Neve Yaar Research Center, ARO, Israel; ² John Innes Center, UK; ³ Volcani Institute, ARO, Israel; ⁴ Cornell University, NY, USA; ⁵ University of Freiburg, Germany</p>

14.10-14.30	O22	QTL mapping and GWAS analysis of green flesh in cucumber Xingfang Gu ¹ , Shengping Zhang ¹ , Kailiang Bo ¹ , Shuang Wei ¹ , Weiping Wang ¹ , Han Miao ¹ , <u>Shaoyun Dong</u> ¹ ¹ Chinese Academy of Agricultural Sciences, Inst. of Vegetables and Flowers, Nandaje, Beijing, China;
14.30-14.50	O23	Chemical composition and gene preliminary mapping of epicuticular wax on watermelon fruit <u>Wen Ge Liu</u> ¹ , Chengsheng Gong ¹ , Shengjie Zhao ¹ , Xuqiang Lu ¹ , Nan He ¹ , Hongju Zhu ¹ , Pingli Yuan ¹ , Bingbing Li ¹ ¹ Zhengzhou Fruit Research Institute, Chinese Academy of Agricultural Science, Zhengzhou, China
14.50-15.10	O24	The molecular inheritance pattern of green/white skin color of immature fruit in cucumber <u>Mingming Cui</u> ¹ , Zihui Cheng ¹ , Hanqiang Liu ¹ ¹ Northwest AF University, Southern Campus of Northwest AF University, Yangling, China
15.10-15.30	O25	QTL Mapping of watermelon fruit traits using a high-density GBS-based genetic map <u>Meiling Gao</u> ¹ , Xiaoxue Liang ¹ , Yu Guo ¹ , Yanling Zhang ¹ , Jixiu Liu ² , Xiujie Liu ² , Xiaosong Liu ¹ , Chuangran Hu ¹ ¹ Heilongjiang Qiqihar University, Qiqihar, China; ² Qiqihar Horticultural Research Institute, Qiqihar, China
15.30-16.00		Coffee break
16.00-16.20	O26	An alternative method to maintain the quality of cucumbers with pre-storage UV-C treatment <u>Penta Pristijono</u> ¹ , Michael Bowyer ¹ , John Golding ² ¹ School of Environmental and Life Sciences, The University of Newcastle, Ourimbah NSW, Australia; ² NSW Department of Primary Industries, Ourimbah NSW, Australia
Theme		Floral biology – Chair Daniel Leskovar, USA
16.20-16.40	O27	Transcript and metabolic profiles distinguish cucumber ovary fates and suggest candidate genes for fruit set control Deblina Mitra ¹ , Yula Shnaider ¹ , Amalia Bar-Ziv ¹ , Yariv Brotman ² , <u>Rafael Perl Treves</u> ¹ ¹ Faculty of Life Science, Bar Ilan University, Ramat Gan, Israel; ² Department of Life Sciences, Ben Gurion University, Beer Sheva, Israel
Session 5		Propagation and grafting – Chair Daniel Leskovar, USA
16.40-17.20	O28	KEYNOTE: Rootstocks for melon grafting Maria Belén Picó Sirvent ¹ ; Andres Cáceres ¹ ; G. Castro ¹ , Gorka Perpiña ¹ , Ana Garcés-Claver ² , Victor González ³ , María Luisa Gómez-Guillamón ⁴ , Carmina Gisbert ² ¹ Universitat Politècnica de València, Valencia, Spain; ² Instituto Universitario de Conservación y Mejora de la Agrodiversidad Valenciana, València, Spain; ³ Molecular Genetics Department, Center for Research in Agricultural Genomics CRAG (CSIC-IRTA-UAB), Jordi Girona, Barcelona, Spain; ⁴ IHSM La Mayora, Málaga, Spain
17.20-17.40	O29	Quantitative criteria of watermelon and squash seedlings used as scion and rootstock during grafting Filippos Bantis ¹ , <u>Athanasios Koukounaras</u> ¹ , Anastasios Siomos ¹ , Georgios Menexes ¹ , Christodoulos Dangitsis ² , Theologos Koufakis ² ¹ Aristotle University of Thessaloniki, Thessaloniki, Greece; ² Agaris S.A., Imathia, Greece
19.00		Congress diner

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Session 6		Virology and bacteriology – Chair Kris De Jonghe, Belgium
9.00-9.40	O30	KEYNOTE: Of cucurbits and viruses: a never-ending story <u>Cecile Desbiez</u> ¹ , Hervé Lecoq ¹ ¹ INRA - URPV, Montfavet Cedex, France
9.40-10.00	O31	Epidemiology of zucchini viruses in Flanders in support of a sustainable management strategy <u>Kris De Jonghe</u> ¹ , Mathias De Backer ¹ , Sofie Darwich ² , Danny Callens ² , Sofie Venneman ³ , Luc De Rooster ³ ¹ Research Institute For Agriculture, Fisheries and Food (ILVO), Merelbeke, Belgium; ² Inagro, Rumbeke-Beitem, Belgium; ³ Research Station for Vegetable Production, Sint-Katelijne-Waver, Belgium
10.00-10.20	O32	Incidence and genetic diversity of cucurbit viruses in Spain Ana Pérez-de-Castro ¹ , Emilio Martínez de Alba ¹ , Cristina Sáez ¹ , Alejandro Flores ¹ , Alicia Sifres ¹ , María Luisa Gómez-Guillamón ¹ , Carmelo López ¹ , <u>María Belén Picó Sirvent</u> ¹ ¹ Institute for the Conservation and Breeding of Agricultural Biodiversity (COMAV-UPV), Universitat Politècnica de València, Valencia, Spain
10.20-10.40	O33	Screening of pumpkin breeding populations against potyviruses and geminiviruses, and for key fruit traits <u>Supornpun Srimat</u> ¹ , Suwannee Laenoi ¹ , Jang Suk-Woo ¹ , Narinder Dhillon ¹ ¹ World Vegetable Center, East and Southeast Asia, Kasetsart University, Kamphaeng Saen, Thailand
10.40-11.05		Coffee break
11.05-11.25	O34	Protein interactions and functional validation of Fusarium wilt and potyvirus resistance genes in melon Shahar Nizan ¹ , Katya Pashkovsky ¹ , Golan Miller ¹ , Arie Amitzur ¹ , Michael Normantovich ¹ , Amalia Bar-Ziv ¹ , <u>Rafael Perl Treves</u> ¹ ¹ Faculty of Life Sciences, Bar Ilan University, Ramat Gan, Israel
11.25-11.45	O35	Progress on management of bacterial spot of cucurbits incited by <i>Xanthomonas cucurbitae</i> <u>Mohammad Babadoost</u> ¹ , Salisu Sulley ¹ , Sita Thapa ¹ , Xiaoyue Zhang ¹ ¹ Department of Crop Sciences, Univ of Illinois, Urbana, USA
Session 7		Nutritional content and health benefits – Chair Raf De Vis, Belgium
11.45-12.25	O36	KEYNOTE: Hidden treasures of the Cucurbitacea: health benefits of melons, from watermelon to bitter melon <u>Bhimanagouda S. Patil</u> ¹ , Jashbir Singh ¹ , Prathiba Acharya ¹ , Rita Metrani ¹ , Siddanagouda Shivanagoudra ¹ , Jose Perez ¹ , G. Jayaprakasha ¹ ¹ Vegetable and Fruit Improvement Center, Department of Horticultural Sciences, Texas A&M University, Texas, USA
12.25-12.45	O37	Preparation of value-added product jam from underutilized vegetable oriental pickling melon (<i>Cucumis melo</i> var. Conomon) <u>Bhuvaneshwari Gurubasappa</u> ¹ , Vasant Ganiger ² ¹ Dept. of PHT, College of Horticulture, UHS, BAGALKOT, India; ² Department of Vegetable Science, College of Horticulture, UHS, Bagalkot, Karnataka, India
12.45-13.45		Lunch break

Session 8		Biostimulants and abiotic stress – Chair Raf De Vis, Belgium
13.45-14.25	O38	<p>KEYNOTE: Plant biostimulants: new tool for enhancing agronomic performance and fruit quality of Cucurbits</p> <p><u>Giuseppe Colla</u>¹, Mariateresa Cardarelli², Youssef Roupael³</p> <p>¹ Department of Agriculture and Forest Sciences, University of Tuscia, Viterbo, Italy; ² CREA, Centro di ricerca Orticoltura e Florovivaismo, Salerno, Italy; ³ Department of Agricultural Sciences, University of Naples, Portici, Italy</p>
14.25-14.45	O39	<p>Yield and quality of different wild melon (<i>Cucumis melo</i> var. <i>agrestis</i>) genotypes under the northern dry zone of Karnataka</p> <p><u>Vasant Ganiger</u>¹, Bhuvaneshwari Gurubasappa¹, Shruthi Gondi²</p> <p>¹ Department of Vegetable Science, College of Horticulture, University of Horticultural Sciences, Bagalkot, Karnataka, India; ² KRC College of Horticulture, Gokak, Karnataka, India</p>
14.45-15.05	O40	<p>Organic soil amendments with humic substances improved watermelon yield and soil quality in southwest Texas</p> <p>Kuan Qin¹, Daniel Leskovar¹</p> <p>¹ Texas A&M AgriLife Research and Extension Center, Texas A&M University, Uvalde, Texas, USA</p>
15.05-15.30		Closing of the symposium and young mind awards
15.30-16.00		Closing drink
16.00-16.30		ISHS Business meeting
17.30-19.00		Guided city walk