

VI International Symposium on Cucurbits

Poster presentations

Session 1	Genetic resources and breeding technologies
P1	<p>Development of high-throughput SNP marker set for screening cucumber seed quality <u>Jinhee Kim</u>¹, Eun Su Lee¹, Dosun Kim¹, Hye-Eun Lee¹, Jong Pil Hong¹, Minkyong Kim¹, Ji-Hye Moon¹ ¹ NIHHS, National Institute of Horticulture and Herbal Science, Wanju, Republic of Korea</p>
P2	<p>Review of cultivated and spontaneous Cucurbitaceae species for use as food, medicinal and decorative Petre Marian Brezeanu¹, Creola Brezeanu¹, Silvica Ambarus¹, <u>Crina Andreea Antal</u>¹, Nelly Finaru¹, Anne Marie Nechita¹ ¹ Stațiunea de Cercetare-Dezvoltare pentru Legumicultură Bacău (SCDL), Bacău, Romania</p>
P3	<p>Development of the SNP marker set for the efficient <i>Cucurbita</i> spp. background selection in breeding <u>Eun Su Lee</u>¹, Jinhee Kim¹, Do-Sun Kim¹, Hye-Eun Lee¹, Ye-Rin Lee¹, Minkyong Kim¹, Oakjin Lee¹ ¹ NIHHS, National Institute of Horticulture and Herbal Science, Wanju, Republic of Korea</p>
P4	<p>Study on the technology of unfertilized ovary culture in watermelon <u>Xiaowu Sun</u>¹, Si Gong¹, Tian Zou¹ ¹Hunan Agricultural University, Furong District, Changsha City, Hunan Province, China</p>
P5	<p>Implementation of an <i>Agrobacterium</i>-mediated transformation and regeneration protocol in <i>Cucurbita pepo</i> (zucchini) <u>Raquel Jiménez</u>¹, Alicia Pérez-Lorente¹, Francisco Palma¹, Fátima Carvajal¹, Amada Pulido¹, Manuel Jamilena², Dolores Garrido¹ ¹University of Granada, Fuentenueva sn, Granada, Spain, ² Universidad de Almería, Almería, Spain</p>
P6	<p>Definition of genetic diversity in melon breeding population created by using PMR6 for resistance of <i>Podospheara xanthii</i> <u>Abdullah Unlu</u>¹, Mine Unlu¹, H. Filiz Boyaci¹, Rana Kurum¹, Ilknur Polat¹, Aytul Kitapci¹, A. Naci Onus² ¹Bati Akdeniz Agricultural Research Institute, Antalya, Turkey, ²Akdeniz University, Antalya, Turkey</p>
P7	<p>Genetic divergence in pumpkin genotypes using ISSR markers <u>Rita Mercia Borges</u>¹, Natoniel F de Melo¹ ¹ Embrapa (Brazilian Agricultural Research Corporation), Brazil</p>
P8	<p>Molecular characterization of 'wereke' (<i>Ibervillea sonora</i> Greene) natural populations <u>Margarita Gisela Peña Ortega</u>¹, Norberto López-Márquez¹, Jose Luis Rodriguez de la O¹, Ma. de Lourdes Martínez-Cárdenas², ¹Universidad Autonoma Chapingo, Carretera Mexico- Texcoco,, Mexico, ² Universidad Autónoma Metropolitana Iztapalapa, Mexico City, Mexico</p>
P9	<p>Evaluation of factors affecting to callus formation in un-pollinated ovary culture of melon (<i>Cucumis melo</i> L.) <u>Arak Tira-Umphon</u>¹, Nattha Nitwatthanakul¹ ¹ Suranaree University of Technology, Nakhon Ratchasima, Thailand</p>
P10	<p>Mining SSRs from expressed sequence tags databases for cystosterol biosynthesis genes in snake melon (<i>Cucumis melo</i> var. <i>flexuosus</i>) <u>Abdolali Shojaeiyan</u>¹, Sahar Aminkar¹ ¹ Dept. of Horticultural Science, Faculty of Agriculture, Tarbiat Modares University, Iran</p>

VI International Symposium on Cucurbits

Poster presentations

Session 2	Protected cultivation
P11	Evaluation of pollen storage strategies in <i>Cucurbita pepo</i> L <u>Simon Craeye</u> ¹ , Marie-Christine Van Labeke ² ¹ Inagro, Rumbek-Beitem, Belgium, ² Department of Plants and Crops, Faculty of Life Sciences, Ghent University, Ghent, Belgium
P12	Melatonin, calcium signal and hydrogen peroxide interactions on the breaking of abscisic acid-induced seed dormancy in <i>Cucumis melo</i> L <u>Xian Zhang</u> ¹ , Hao Li ¹ ¹ College of Horticulture, Northwest A&F University, Shaanxi, Yangling, China
P13	Relationship between seed vigor test and field performance of two cucurbits <u>Juan Martinez Solis</u> ¹ , Juan Martínez Juárez ¹ , Jessica Cabrera ¹ ¹ Universidad Autonoma de Chapingo, Chapingo, Mexico
P14	Effect of pre-chilling in cucumber and zucchini seed germination and vigor <u>Juan Martinez Solis</u> ¹ , Kristian Madrid ¹ ¹ Universidad Autonoma de Chapingo, Chapingo, Mexico
P15	Effect of high temperature during winter on the growth of bitter melon in South Korea <u>Minju Shin</u> ¹ , Seong Cheol Kim ¹ , Chun Hwan Kim ¹ , Chan-Kyu Lim ¹ , Hyun Joo An ¹ , JavannaNaik Banavath ¹ ¹ Research Institute Of Climate Change And Agriculture, Jeju-si, Republic of Korea
P16	Comparison of varieties for off-season production of bitter melon (<i>Momordica charantia</i> L.) in Korea <u>Seong Cheol Kim</u> ¹ , Min Ju Shin ¹ , Chun Hwan Kim ¹ , Chan-Kyu Lim ¹ , Hyun Joo An ¹ , JayannaNaik Banavath ¹ ¹ Research Institute Of Climate Change And Agriculture, Jeju-si, Republic of Korea
P17	Response of organic grown mini watermelon (<i>Citrullus lanatus</i> (Thunb.) Matsum. & Nakai) to different green manure crops and nitrogen fertilization Mariano Fracchiolla ¹ , Cesare Lasorella ¹ , Massimiliano Renna ¹ , Pietro Santamaria ¹ , <u>Angelo Signore</u> ¹ , Eugenio Cazzato ¹ ¹ University of Bari, Bari, Italy

VI International Symposium on Cucurbits

Poster presentations

Session 3	Mycology
P18	<p>Epidemiology and management of <i>Didymella bryoniae</i> causing internal fruit rot in cucurbits: inoculum sources, spore production and dispersal</p> <p>Sofie Van Laethem¹, <u>Rudi Aerts</u>¹, Mario Frans¹, Stefaan Fabri², Raf De Vis², Stefan Van Kerckhoven³, Anneleen Paeleman³, Peter Bleyaert⁴, Sofie Verhelst⁴, Justine Dewitte⁵, Johan Ceusters⁶</p> <p>¹ Department of Biosystems, KU Leuven, Geel, Belgium, ² Research Station for Vegetable Production, Sint-Katelijne-Waver, Belgium, ³ Scientia Terrae, Sint-Katelijne-Waver, Belgium, ⁴ Inagro, Rumbeke-Beitem, Belgium, ⁵ Provincial Research Centre for Vegetables East-Flanders, Kruishoutem, Belgium</p>
P19	<p>Evaluation of powdery mildew resistance at seedling stage in pumpkin (<i>Cucurbita moschata</i>)</p> <p><u>Oak Jin Lee</u>¹, Ji Hye Moon¹, Sang Gyu Kim², Dae Young Kim¹, Sun Yi Lee²</p> <p>¹ National Institute of Horticultural and Herbal Sciences, RDA, Wanju, Republic of Korea; ² National Academy of Agriculture Science, RDA, Wanju, Republic of Korea</p>
P20	<p>Probenazole induces systemic resistance in watermelon against bacterial fruit blotch</p> <p>Yi-Ru Lai¹, <u>Chien-Jui Huang</u>¹</p> <p>¹ Department of Plant Medicine, College of Agriculture, National Chiayi University, Chiayi City, Chinese Taipei</p>
P21	<p>Screening of muskmelon germplasms for gummy stem blight resistance under greenhouse condition</p> <p><u>Xingping Yang</u>¹, Xiefeng Yao¹, Lingli Zhu¹, Jinghua Xu¹, Man Zhang¹, Runshen Ren¹, Guang Liu¹, Jian Xu¹</p> <p>¹ Jiangsu Academy of Agricultural Sciences, Nanjing Jiangsu, China</p>
P22	<p>Characterization of the melon seedling infection process by <i>Didymella bryoniae</i> tagged with GFP</p> <p><u>Xiefeng Yao</u>¹, Lingli Zhu¹, Jinhua Xu¹, Man Zhang¹, Runshen Ren¹, Guang Liu¹, Jian Xu¹, Xingping Yang¹</p> <p>¹ Jiangsu Academy of Agricultural Sciences, Nanjing Jiangsu, China</p>
P23	<p>Identification of bacterial fruit blotch resistant melon genotypes and development of molecular markers for melon host specific <i>Acidovorax citrulli</i> and cucurbit host specific <i>Acidovorax avenae</i> sp. <i>avenae</i></p> <p>Illsup Nou¹, Rafiqul Islam¹, Mohammad Rashed Hossain¹, Hoy-Taek Kim¹, Jong-In Park¹, Beom-Seok Park¹</p> <p>¹ Department of Horticulture, Suncheon National University, Suncheon, Republic of Korea; ² Hongik Bio, Pyeongtaek, Republic of Korea</p>
P24	<p>Disease prevalence, severity and species spectrum of cucurbit powdery mildews in the Czech Republic in the period 2011 to 2016</p> <p><u>Bozena Sedlakova</u>¹, Ales Lebeda¹, Barbora Kaderova¹, Eva Kristkova¹</p> <p>¹ Department of Botany, Palacky University Olomouc, Olomouc-Holice, Czech Republic</p>

VI International Symposium on Cucurbits

Poster presentations

Session 4	Fruit quality and floral biology
P25	<p>The genetic architecture of round fruit shape in cucumber: pinpoint from several examples Yupeng Pan¹, Yiqun Weng², <u>Zhihui Cheng</u>¹ ¹ College of Horticulture, Northwest AF University, Yangling, China; ² Horticulture Department, University of Wisconsin - Madison, Madison, USA</p>
P26	<p>Sensory characteristics of three different zucchini-cultivars Elisabeth Abele¹, Michael Fleck², Jens Hartung¹, Sabine Zikeli¹, Simone Graeff-Hönninger¹ ¹ Universität Hohenheim, Institut für Kulturpflanzenwissenschaften, Stuttgart, Germany; ² Kultursaat e. V., Echzell, Germany</p>
P27	<p>RNA-seq reveals molecular pathways associated with reduced chilling injury in individual shrink wrapped (ISW) Zucchini fruits Andrés Chana-Muñoz¹, Alicia García¹, Encarnación Aguado¹, <u>Jonathan Romero</u>¹, <u>Gustavo Cebrián</u>¹, Dolores Garrido², Juan Luis Valenzuela¹, Manuel Jamilena¹ ¹ Dept. Biology and Geology, Agri-food, University of Almería, Almería, Spain; ² Dept. Plant Physiology, University of Granada, Fuentenueva, Granada, Spain</p>
P28	<p>Effect of a dextrin-based coating, alone or enriched with oleuropein, on the quality of zucchini fruit after cold storage Fátima Carvajal¹, Alejandro Castro-Cegrí¹, Mariano Ortega-Muñoz¹, <u>Raquel Jiménez-Muñoz</u>¹, Dolores Garrido¹, Francisco Palma¹ ¹ University of Granada, Granada, Spain</p>
P29	<p>Construction of a high-density genetic map and mapping of fruit traits in watermelon (<i>Citrullus Lanatus L.</i>) based on whole-genome resequencing <u>Liu Wenge</u>¹, Bingbing Li¹, Xuqiang Lu¹, Junling Dou¹, Aslam Ali¹, Lei Gao¹, Shengjie Zhao¹, Nan He¹ ¹ Zhengzhou Fruit Research Institute, Chinese Academy of Agricultural Science, Zhengzhou, Henan Province, China</p>
P30	<p>Generation, selection and characterisation of ethylene insensitive mutants in watermelon Encarnación Aguado¹, Alicia García¹, Jessica Iglesias¹, <u>Jonathan Romero</u>¹, <u>Gustavo Cebrián</u>¹, Cecilia Martínez¹, Manuel Jamilena¹ ¹ Dept. Biology and Geology, Agri-food, Campus of International Excellence CeIA3, and Research Center CIAIMBITAL, University of Almería, Almería, Spain</p>
P31	<p>Characterisation of two novel androecious single mutants in <i>Cucurbita pepo L</i> Alicia García¹, Encarnación Aguado¹, <u>Jonathan Romero</u>¹, <u>Gustavo Cebrián</u>¹, Cecilia Martínez¹, Dolores Garrido², Manuel Jamilena¹ ¹ Dept. Biology and Geology, Agri-food, Campus of International Excellence CeIA3, and Research Center CIAIMBITAL, University of Almería, Almería, Spain; ² University of Granada, Granada, Spain</p>

VI International Symposium on Cucurbits

Poster presentations

Session 5	Propagation and grafting
P32	<p>Use of germination and early radicle growth parameters for assessing oxidative stress tolerance in Zucchini squash</p> <p><u>Gustavo Cebrián</u>¹, Alicia García¹, Encarnación Aguado¹, Jonathan Romero¹, Andrés Chana-Muños¹, Cecilia Martínez¹, Juan Luis Valenzuela¹, Miguel Guzmán¹, Manuel Jamilena¹</p> <p>¹ <i>Department of Biology and Geology, Agri-food, Campus of International Excellence CeiA3, and Research Center, University of Almería, Almería, Spain</i></p>
P33	<p>Interspecific hybrids of wild <i>Cucumis</i> species (Fian and Fimy): new rootstocks for melon highly resistant to biotic soil stress</p> <p>Gisbert Carmina¹, Andres Cáceres¹, Gorka Perpiñá¹, Ana Garcés-Claver², María Luisa Gómez-Guillamón³, <u>María Belén Picó</u>¹</p> <p>¹ <i>Universitat Politècnica de València, Valencia, Spain;</i> ² <i>CITA, Zaragoza, Spain;</i> ³ <i>IHSM La Mayora, Málaga, Spain</i></p>

VI International Symposium on Cucurbits

Poster presentations

Session 6	Virology and bacteriology
P34	<p>Inheritance and QTL mapping of cucumber mosaic virus resistance in cucumber (<i>Cucumis sativus</i> L.)</p> <p><u>Xingfang Gu</u>¹, Shengping Zhang¹, Lixue Shi¹, Yuhong Yang¹, Qing Xie¹, Han Miao¹, Kailiang Bo¹, Zichao Song¹, Ye Wang¹, Bingyan Xie¹</p> <p><i>¹ Institute of Vegetables and Flowers, Chinese Academy of Agricultural Sciences, Beijing, China</i></p>
P35	<p>A novel dominant resistance gene for ToLCNDV in <i>Cucurbita</i></p> <p><u>Jonathan Romero</u>¹, Encarnación Aguado¹, Cecilia Martínez¹, Alicia García¹, Gustavo Cebrián¹, Harry S. Paris², Manuel Jamilena¹</p> <p><i>¹ Department of Biology and Geology, Agri-food, Research Center CIAMBITAL, University of Almería, Almería, Spain; ² Vegetable Crops and Plant Genetics, Agricultural Research Organization, NeweYaar Research Center, Ramat Yishay, Israel</i></p>
P36	<p>Searching for resistance to ZYMV among <i>Cucurbita maxima</i> cultivars</p> <p><u>Jiri Svoboda</u>¹, Leona Leisova-Svobodova¹, Petr Kominek¹</p> <p><i>¹ Crop Research Institute, Prague, Czech Republic</i></p>
P37	<p>Seed transmission of Tomato leaf curl New Delhi virus Italian isolate in <i>Cucurbita</i> crops</p> <p><u>Eui-Joon Kil</u>¹, Thi Bich Thuy Vo¹, Chairina Fadhila¹, Aamir Lal¹, Elisa Troiano², Giuseppe Parrella², Sukchan Lee¹</p> <p><i>¹ Sungkyunkwan University, Suwon, Republic of Korea; ² Institute for Sustainable Plant Protection, National Research Council of Italy, Portici, Italy</i></p>
P38	<p>Comparison of different host species with Tomato leaf curl New Delhi virus isolated from Italy</p> <p>Thi Bich Thuy Vo¹, Chairina Fadhila¹, Aamir Lal¹, Elisa Troiano², Giuseppe Parrella², <u>Eui-Joon Kil</u>¹, Sukchan Lee¹</p> <p><i>¹ Sungkyunkwan University, Suwon, Republic of Korea; ² Institute for Sustainable Plant Protection, National Research Council of Italy, Portici, Italy</i></p>

VI International Symposium on Cucurbits

Poster presentations

Session 7	Nutritional content and health benefits
P39	<p>Physiological and biochemical changes of <i>Cucurbita ficifolia</i> Bouché during its development and its hypoglycemic effect <u>Araceli Moya-Hernández</u>¹, Elsa Bosquez-Molina¹, José Ramón Verde-Calvo¹, Gerardo Blancas-Flores¹ ¹ <i>Universidad Autónoma Metropolitana Iztapalapa, Mexico City, Mexico</i></p>
P40	<p>Isolation and characterization of squalene monooxygenase by expressed sequence tag mining in bitter melon (<i>Momordica charantia</i> L.) Samira Jandoust¹, <u>Abdolali Shojaeiyan</u>¹, Mahdi Ayyari¹, Sahar Aminkar¹ ¹ <i>Dept. of Horticultural Science, Faculty of Agriculture, Tarbiat Modares University, Tehran, Iran</i></p>
P41	<p>Genetic parameters and variability for commercial and nutritional quality attributes in pumpkin genotypes <u>Rita Mercia Borges</u>¹, Maria A. Coelho de Lima¹ ¹ <i>Embrapa (Brazilian Agricultural Research Corporation), Brazil</i></p>

VI International Symposium on Cucurbits

Poster presentations

Session 8	Biostimulants and abiotic stress
P42	<p>Screening of low temperature tolerance in bottle gourd and wild watermelon resources for watermelon rootstock</p> <p><u>Jihye Moon</u>¹; Sanggyu Kim¹; Oakjin Lee¹; Daeyoung Kim¹; Sunyi Lee¹; Kihwan Song²</p> <p>¹ National institute for Horticultural and Herbal Science, Wanju, Republic of Korea; ²Sejong University, Seoul, Republic of Korea</p>
P43	<p>Variation of DNA methylation patterns associated with gene expression in tetraploid watermelon exposed to sodium</p> <p><u>Liu Wenge</u>¹, Hongju Zhu¹, Shengjie Zhao², Xuqiang Lu², Nan He²</p> <p>¹ Zhengzhou Fruit Research Institute, Chinese Academy of Agricultural Science, Zhengzhou, Henan Province, China; ² Chinese Academy of Agricultural Sciences, Zhengzhou, Henan, China</p>