



XIIth Eucarpia Meeting on Cucurbit Genetics and Breeding

May 24-28th, 2021 Virtual Congress

	Monday, May 24th	Tuesday, May 25th	Wednesday, May 26th	Thursday, May 27th	Friday, May 28th
13:30 - 14:00	Opening ceremony				
14:00 - 14:45	Session 1 Genetic Resources Chair persons: Narinder Dillon & M ^o José Díez Invited Speaker Harry Paris ARO, Israel 'Overview of the history of the five major cucurbit crops: some issues for genomic analysis of archaeological specimens'	Session 3 Genomic Resources 1 Chair persons: Amnon Levi & Cecilia Martínez Invited Speaker Antonio Monforte IBMCP-CSIC, Spain 'Melon genetic resources in the genomics era'	Session 3 Genomic Resources 1 Chair persons: Amnon Levi & Cecilia Martínez Invited Speaker Yuling Bai WUR, The Netherlands 'Disease resistance in Cucurbits: recent progress and futures perspectives on plant susceptibility genes'	Session 3 Genomic Resources 1 Chair persons: Amnon Levi & Cecilia Martínez Invited Speaker Yong Xu BAAFS, China 'Genomic selection drives the evolution of delicious fruit in watermelon'	Session 3 Genomic Resources 1 Chair persons: Amnon Levi & Cecilia Martínez Invited Speaker Jordi García-Mas CRAG Genómica, Spain 'Genomic resources applied to understand melon fruit quality'
14:45 - 15:00	Public private partnership for sustainable bitter gourd breeding and production in Asia Narinder Dhillon AVRDC,Thailand	Generation of Gynocercious Melon Lines using CRISPR/Cas9 Isidre Hooghvorst, Barcelona University, Spain	Resistance to Cucumber Mosaic Virus: a proteomic approach Nuria Real CRAG Genómica, Spain	A unique chromosome translocation disrupting CWIP1 leads to gynocercy in watermelon Jie Zhang NERCV, China	Fine mapping of the Mt-2 gene controlling mottled rind in melon Bin Liu CRAG Genómica, Spain
15:00 - 15:15	Pre- and post-zygotic interspecific barriers control reproductive isolation in Cucumis Carlos Romero IBMCP-CSIC, Spain	Panning the Melon Genome Elad Oren ARO, Israel	Syntenic regions control resistance to tomato leaf curl New Delhi virus (ToLCNDV) in cucurbit crops Cristina Sáez Valencia University, Spain	Two induced EMS mutations conferring parthenocarp in Cucurbita pepo Alicia García Almería University, Spain	Underground Heterosis for Melon Yield Amit Gur ARO, Israel
15:15 - 15:30	A global conservation strategy for Cucurbitaceae family crops Peter Giovannini Crop Trust, Germany	A Multispecies SNP Array for High-Resolution Genotyping of Melon, Cucumber and Watermelon Martin Ganal SGS, Germany	Adaptation of GWAS models for plant virus resistance: from rediscovering major genes to highlighting of new complex traits Séverine Monnot INRAE, France	Validation of the differential expression of zucchini genes during fruit formation Alejandro Ayala IFAPA, Spain	Identification of fruit-associated QTL in winter squash (<i>Cucurbita maxima</i> Duchesne) using recombinant inbred lines Grzegorz Bartoszewski Warsaw University, Poland
15:30 - 15:45	Importance of the American resource of Cucurbitaceae conserved by the CATIE Germplasm Bank and its potential for genetic improvement Daniel Fernández CATIE, Costa Rica	Development of Double Haploid melon lines for its use as founders of a MAGIC population Pau Bretó Abiopep SL, Spain	New Sources of Resistance to Powdery Mildew in Squash and Pumpkin Andrew Ogden New Hampshire University, USA	ETHQV8.1, a new player in melon fruit ripening Miguel Santo Domingo CRAG Genómica, Spain	Breeding quality melons with resistances derived from African accession TGR1551 Maria López-Martín Polytechnic University of Valencia, Spain
15:45 - 16:00	The Mexican Cucurbita project: advances and perspectives Erika Aguirre UNAM, Mexico	Genome-wide association analysis of downy mildew resistance in a pre-breeding watermelon (<i>Citrullus amarus</i>) collection Dennis Katuramu USDA-ARS, USA	Deciphering the Genetic Basis of CYSDV Resistance in Melon PI 313970 Prabin Tamang USDA-ARS, USA		
16:00 - 16:15	Break				
16:15 - 17:00	Session 2 Tolerance to abiotic stress Chair persons: Daniel Leskovar & Ana Garcés Invited Speaker Kevin Crosby Texas University, USA 'Breeding melons for vine decline resistance, nutritional value and flavor'	Session 4 Genomic Resources 2 Chair persons: Mara Ercolano & Cristina Esteras Invited Speaker Rebecca Grumet Michigan State University 'Application of genomic tools for mapping and analysis of valuable traits in cucurbit'	Session 6 Resistance to Pest and Diseases 2 Chair persons: Jim McCreight & Montse Martin Invited Speaker Cécile Desbiez INRA, France 'Molecular epidemiology and evolution of cucurbit-infecting potyviruses'	Virtual Visit SYNGENTA España José Manuel Zapata, José Ignacio Álvarez y Jesús Abad	Session 9 New Cultivars Chair persons: Emilio Sarria & Matthijs Groot Invited Speakers Jamila Chaïb, David O'Donnell and Zahi Paz Limagrain Group 'Main typologies and markets of melon, cucumber and watermelon: major traits of interest for breeding new varieties'

17:00 - 17:15	RNA-seq based analysis of zucchini fruit transcriptome in response to exogenous abscisic acid and cold storage Álvaro Benítez Almería University, Spain	QTL mapping and pyramiding resistance to <i>Fusarium oxysporum</i> f. sp. <i>niveum</i> (races 1 and 2) and potyviruses in watermelon Amnon Levi USDA-ARS, USA	Germplasm release of gummy stem blight resistant lines from a watermelon × citron population Todd Wehner NCState University, USA	Announcements	Selection programme of a 'Muscat'-type variety of <i>Cucurbita moschata</i> for improved performance and uniformity Jaime Prohens Polytechnic University of Valencia, Spain
17:15 - 17:30	Insights into <i>Cucumis sativus</i> drought stress tolerance using RNA sequencing Urszula Klozińska InHortt, Poland	Editing the melon genome to attain broad spectrum virus resistance. Giuliano Sting Pechar CEBAS-CSIC, Spain	The Amino Acid Permease (AAP) genes CsAAP2A and SIAAP5A/B are required for oomycete susceptibility in cucumber and tomato. Henk Schouten WUR, The Netherlands		New promising mini melon lines from different genetic backgrounds Cristina Esteras Polytechnic University of Valencia, Spain
17:30 - 17:45	Screening of a Zucchini mutant collection for abiotic stress tolerance Sonsoles Alonso de Diego Almería University, Spain	A potyvirus-based vector for transient gene expression in cucurbit plants and fruits José Antonio Darós IBMCP-CSIC, Spain	Downy Mildew Resistance and Fruit Quality in a Cucumber Recombinant Inbred Line Population derived from Coolgreen x PI 197088 Emily Silverman NCState University, USA		CMV-resistant melons for the western United States Jim McCreight USDA-ARS, USA
17:45 - 18:00	Evaluation of grafting traditional snake melon "alficoz" under abiotic stress: effects on agronomic performance and fruit quality Alejandro Flores-León Polytechnic University of Valencia, Spain	Dissecting melon fruit ripening using CRISPR Andrea Giordano CRAG Genómica, Spain	Charcoal rot (<i>Macrophomina phaseolina</i>): From melon and watermelon to other hosts, studying phytopathological and genetic aspects in the global warming era Roni Cohen ARO, Israel	Awards Ceremony	Development of multi-disease resistant melon (<i>Cucumis melo</i>) cultivars through marker-assisted selection Sandra Branham USDA-ARS, USA
18:00 - 20:30	Poster session	Poster session	Poster session	Poster session	Closure Remarks

*All times indicated in the program correspond to local time in Spain.