



INTERNATIONAL MANGO SYMPOSIUM

SEPTEMBER 29th to OCTOBER, 3rd, 2023
MÁLAGA, SPAIN



ISHS
International Society for Horticultural Science



UNIVERSIDAD
DE MÁLAGA

Friday, September 29th

17:00 **Registration** (the technical secretariat will remain open throughout the congress)

18:00 - 19:00 **Opening**

19:00 **Welcome cocktail** (held at the NH Malaga 4* Hotel, venue of the congress)

Saturday, September 30th

09:00 - 10:00 **Registration**

10:00 - 10:30 **Welcome session - Iñaki Hormaza.** Mango production under subtropical and Mediterranean climates.

10:30 - 11:30 **Session 1A - Markets and production**

10:30 - 11:00 **Víctor Galán Sauco.** World Mango Production and Trade

11:00 - 11:15 **Alec Zuo.** Wholesale mango price dynamics in Vietnam during the COVID-19 pandemic

11:15 - 11:30 **Dario Scuderi.** The climate of mango producing areas: a case study on three islands

11:30 - 12:00 **Coffee break**

12:00 - 13:00 **Session 1B - Markets and production**

12:00 - 12:30 **Leonardo Ortega.** The U.S. Mango Market Trends and the National Mango Board

12:30 - 12:45 **Yuval Cohen.** Development of out-of-season mango production under the extreme desert conditions of the Israeli Dead Sea and Arava regions

12:45 - 13:00 **Sergio R. Marquez-Berber.** Mango cultivars evolution in Mexico

13:00 - 13:30 **Group photo**

13:30 - 15:00 **Lunch**

15:00 - 16:30 **Session 2A - Crop management**

15:00 - 15:30 **Ian Bally.** Rethinking Mango Production Systems, Towards Intensive High Density Orchards

15:30 - 15:45 **Muhammad Asad Ullah.** Crop load affects mango fruit mineral status and susceptibility to internal disorders

15:45 - 16:00 **Norman Munyengwa.** Increased accuracy of genomic predictions for tree vigour in mango (*Mangifera indica* L.) by utilizing preselected variants from a genome-wide association study using sequence data

16:00 - 16:15 **Ian Bally.** Facilitating industry adoption of intensive mango practices and the use of agri-technologies in Australia

16:30 - 17:00 **Coffee break.**

17:00 - 18:00 **Session 2B - Crop management**

17:00 - 17:30 **Frédéric Normand.** Vegetative growth and development of the mango tree canopy: understanding and practical applications

17:30 - 17:45 **Isabelle Grechi.** V-Mango, a functional–structural plant model of mango tree growth, development and fruit production: from model design to applications

17:45 - 18:00 **Frédéric Normand.** MangoViz, an open-source interactive web interface to view and explore data of long-term agronomic experiments on mango

19:30 - **Guided visit to the city of Malaga**

(Starting on walking distance from the NH Malaga 4* hotel)

Sunday, October 1st

09:00 - 11:00 **Session 3 - Breeding**

09:00 - 09:30 **Yuval Cohen.** Mango breeding for quality traits

09:30 - 09:45 **Ian Bally.** The Australian Mango Breeding program

09:45 - 10:00 **Navot Galpaz.** Mango rootstock breeding project in Israel

10:00 - 10:15 **Noris Ledesma.** Mango production in Saudi Arabia

10:15 - 10:30 **Bal Krishna.** How to Increase Efficiency of Mango Hybridisation and Breeding -an Experience

10:30 - 10:45 **Yair Aron.** Crossbreeding the diverse Mangifera genetic pool to create the mangoes of the future

11:00 - 11:45 **Coffee break**

11:45 - 13:30 **Session 4 - Germplasm and diversity**

11:45 - 12:15 **Noris Ledesma.** Grafting and breeding Mangifera species and their Potential for the future of mango cultivation

12:15 - 12:30 **Margarita Martich Sosa.** Potencial de los Recursos Genéticos de Mangos Locales en la República Dominicana

12:30 - 12:45 **Emily Warschefsky.** Updates on the mango's wild relatives: Taxonomy, phylogeny, hybridization, and field explorations

12:45 - 13:00 **Cándida Batista.** Characteristics and compatibility of rootstocks and grafts on native mango cultivars, Frutales Experimental Station, Peravia, Dominican Republic

13:00 - 13:15 **Natalie Dillon.** Determination of species identity and genetic diversity in genus Mangifera based on chloroplast and nuclear genome sequences.

13:30 - 15:00 **Lunch**

15:00 - 16:00 **Session 5 - Genomics**

- 15:00 - 15:15 **Noe Fernandez-Pozo**. MangoBase: bioinformatics tools for mango research
- 15:15 - 15:30 **Tatsuyoshi Takagi**. Identifying key genes controlling flesh colour in mangoes using genome-wide association studies (GWAS)
- 15:30 - 15:45 **Natalie Dillon**. Genetics of Mango Sensory Preferences
- 15:45 - 16:00 **Amir Sherman**. Identification of the gene that causes polyembryony in mango

16:00 - 16:30 Session 6 - Biotic stress.

16:00 - 16:30 **Stanley Freeman**. Mango malformation: epidemiology, host-pathogen interaction and management of disease

16:30 - 18:30 Posters & Coffee break

Monday, October 2nd

09:00 - 10:30 Session 7 - Flowering and fruit set and abscission

- 09:00 - 09:30 **Maria Hilda Perez Barraza**. Recent advancements in flower induction, fruit set and development in mangoes.
- 09:30 - 09:45 **Miguel Barcelo-Anguiano**. Anatomical differences in floral organs between diploids and autotetraploids of Kensington Pride mango
- 09:45 - 10:00 **Bal Krishna**. Genes associated with regulation of flowering in mango
- 10:00 - 10:15 **Vered Irihimovitch**. Molecular Events Involved in Fruitlet Abscission in Mango

10:30 - 11:30 Coffee break

11:30 - 13:30 Session 8A - Harvest, postharvest and stress

- 11:30 - 12:00 **Ítalo Herbert Lucena Cavalcante**. Role of bioestimulants in fertilization of mangoes
- 12:00 - 12:15 **Yuval Cohen**. Morphological and molecular characterization of fibrousness in mangoes
- 12:15 - 12:30 **Lyda Chin**. Interaction of mango cultivar, ripening stage and processing techniques on sugar and organic acids
- 12:30 - 12:45 **Jean-Christophe Meile**. Mango Microbiota: From the Orchard to the Plate
- 12:45 - 13:00 **Jorge Alberto Osuna-García**. La madurez a cosecha y el acondicionamiento con etileno facilitan el proceso de mango para cachetes congelados

13:00 - 15:00 Lunch

15:00 - 16:00 Session 8B - Harvest, postharvest and stress

- 15:00 - 15:30 **Ping Lu**. Advances in Orchard Irrigation Technology and Theory and Its Application in Mango Orchard

15:30 - 15:45 **Ciara O'Brien.** The effect of cold storage on the biochemistry and physiology in mango (*Mangifera indica*) fruit ripening

15:45 - 16:00 **Tamar Azoulay-Shemer.** Induction of stomatal opening following night-chilling event rescue mango trees from physiological damage

16:00 - 17:00 **Coffee break.**

17:00 - 18:30 **Session 9 - ISHS Business Meeting**

20:30 - **Farewell dinner at the El Balneario restaurant**

(Departure by bus from the NH Malaga 4* hotel at 20:15hrs. After dinner, we will have bus back to the NH hotel).

Tuesday, October 3rd

09:00 - 18:30 **Field trip**

(Departure by bus from the NH Malaga 4* hotel at 08:15hrs. Estimated time of return will be approximately 18:30hrs to the NH hotel).