

COST Action FA1104 'Sustainable production of highquality cherries for the European market'

Workshop

Long Term Preservation of Woody Species by Cryo-Techniques

26 & 27 March, 2015 Area di Ricerca CNR di Firenze, Italy











Workshop

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PROGRAMME

March 26 th , Thursday	
9.00 - 9.30	Registration of participants
9.30 – 10.00	Welcome greetings
10.00 – 10.30	Applied plant cryobanking: from protocol development to genebank management Bart Panis Bioversity International, Leuven, Belgium
10.30 – 11.00	Overview on world cryobanks for plant genetic resource conservation. Florent Engelmann Institute de Recherche pour le Developpement, Montpellier, France
11.00 – 11.30	Coffee break
11.30 – 12.00	Cryopreservation of woody species and cryotherapy Maurizio Lambardi CNR-IVALSA, Trees and Timber Institute, Florence, Italy
12.00 – 12.30	Cryopreservation of <i>Malus</i> and <i>Fragaria</i> Monika Höfer <i>Julius Kuhn Institute, Dresden, Germany</i>
12.30 – 14.00	Lunch
14.00 – 14.30	Cryopreservation of Ornamental Plants (indoor and cut flowers) Adela Halmagyi Institute of Biological Research, Cluj-Napoca, Romania
14.30 – 15.00	Cryopreservation of conifers: challenges and bottlenecks Jana Krajnakova University of Udine, Italy
15.00 – 15.30	Cryopreservation of synthetic seeds Aylin Ozudogru CNR-IVALSA, Trees and Timber Institute, Florence, Italy
15.30 – 16.00	Coffee break
16.00 – 17.00	Short presentations of video-posters (5 minutes each)
17.00	End of the first day
20.00	Social dinner, Firenze downtown

March 27 th , Friday	
9.30 – 10.00	Genetic and epigenetic stability assessment of plants regenerated from cryopreservation Anna De Carlo CNR-IVALSA, Trees and Timber Institute, Florence, Italy
10.00 – 10.30	Overview on <i>Prunus</i> cryopreservation with focus on cherry Emilia Caboni <i>CRA-FRU, Fruit Tree Research Center, Rome, Italy</i>
10.30 - 11.00	Coffee break
11.00 – 11.15	Pollen cryopreservation Carla Benelli CNR-IVALSA, Trees and Timber Institute, Florence, Italy
11.15 – 11.30	Some experiences in the field of in vitro cryopreservation of woody species (cherry species included) in the Fruit Research Institute of Čačak (Serbia) Tatjana Vujović Fruit Research Institute Kralja Petra, Čačak, Serbia
11.30 – 12.00	Short presentations of video-posters (5 minutes each)
12.00 – 13.00	Visit to the Laboratory of Cryopreservation and In Vitro Techniques of IVALSA
13.00 – 14.30	Lunch
14.30	Departure to Oscar Tintori Nursery
15.30 – 18.00	Visit to the Oscar Tintori Nursery, Pescia, Pistoia. Guided visit to the "Hesperidarium", a reach and unique collection of ornamental citrus plants. Tasting of own-produced products
18.00-19.00	Back to Firenze
19.00	End of the workshop

Video-Posters: contributed presented

In vitro preservation of patrimonial fruit varieties of Emilia-Romagna region, Italy Quacquarelli Irene, Gimelli Nives, Giovannini Daniela CRA-FRF, Fruit Tree Research Unit, Forlì, Italy

Preliminary results of cryopreservation experiments aimed to long-term maintenance of Hungarian sour cherry germplasm.

Tímea TÓTH

Research Institute for Fruitgrowing and Ornamentals, Budapest, Hungary

Droplet vitrification cryopreservation of Prunus mahaleb using shoot tips from in situ plants. Sezai Ercisli

Department of Horticulture, Ataturk University Agricultural Faculty, Erzurum

In vitro methods for increasing genetic variability and preserving woody fruit and ornamental species biodiversity applied in Fruitgrowing Institute Plovdiv, Bulgaria *Lilyana Nacheva*

Fruitgrowing Institute - Plovdiv, Bulgaria

Application of the droplet vitrification method for cryopreservation of temperate fruit species

A. Sgueglia, F. Piombino, Dietrich, M.A. Germanà, C. Forni, A. Gentile, A. Frattarelli, S. Monticelli, E. Condello, E. Caboni

CRA-FRU, Fruit Tree Research Centre, Rome, Italy

How to reach the CNR Research Area of Florence (inside the Scientific Pole)

<u>Train+bus</u>: at the main train station (**Santa Maria Novella**) of Florence, take one of the many regional trains which have the first stop at **Firenze-Rifredi** (7-8 minutes; if you arrive to Santa Maria Novella by train, you don't need to buy another ticket). At the Firenze-Rifredi station, take the back exit (after the binary n° 9). In the sidewalk in front (via Vasco De Gama) you find the **ATAF bus stop n° 59** which has a stop exactly at the main entrance of the CNR (a red building). Bus frequency: 20 minutes; travel time: 14 minutes

Workshop Organizers:

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Acknowledgments

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COST Action FA1104 'Sustainable production of high-quality cherries for the European market' (https://www.bordeaux.inra.fr/cherry/) is aimed to develop innovative strategies to safeguard European cherry production through active networking.



Members of ECPGR (European Cooperative Programme for Plant Genetic Resources) Working Group on *Prunus* (http://www.ecpgr.cgiar.org/workinggroups/prunus/) participated and supported the organization of the workshop, whose aims are in line with the scope and objectives of ECPGR. The outputs of the event will be disseminated in collaboration with the ECPGR *Prunus* WG.