



**centro
attività
vivaistiche**

Training School on Dormant Bud Cryopreservation

21-23 May 2024, Faenza, Italy

Agenda

Location: CAV-Centro Attività Vivaistiche, Faenza (Ravenna; Emilia Romagna region)

Participants (n. 15): 10 students + 3 teachers + 2 supervisors (the Chair of the Cryopreservation WG, Milos Faltus and the representative of the ECPGR Secretariat, Lorenzo Maggioni)

Teachers: Maurizio Lambardi, CNR-IBE of Florence, Italy; Alois Bilavcik, Crop Research Institute of Prague, Czech Republic; Saija Rantala, Natural Resources Institute (LUKE), Finland)

21 May

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| 9.00 | Transfer from Faenza (location Hotels) to CAV by bus |
| 9.45-10.30 | Welcome to participants (Lorenzo Maggioni, Milos Faltus, Bart Panis, Marco Pancaldi-Director of CAV) |
| 10.30-11.30 | Milos Faltus, Bart Panis: General introduction to cryopreservation of woody species |
| 11.30-13.00 | Visit to the Centre for the fruit germplasm preservation ⁽¹⁾ |
| 13.00-14.30 | <i>Lunch</i> |
| 14.30-15.15 | Alois Bilavcik: Cryopreservation of dormant buds general principles and practical approaches – optimal orchard sampling, frost dehydration, thermal characterisation. |
| 15.15-16.00 | Maurizio Lambardi: Cryopreservation of dormant buds from potted plants in screenhouses and use of early tests to evaluate bud survival. |
| 16.00-16.45 | Saija Rantala: Experiences on cryopreservation of black and red currant by dormant bud method using in vitro recovery (online). |
| 17.00 | Transfer from CAV to Faenza by bus |

22 May

- 9.00 Transfer from Faenza (location Hotels) to CAV by bus
- 9.45-13.00 Practice on chip budding using buds from cryopreservation
- 13.00-14.30 *Lunch*
- 14.30-16.45 - Discussion and question on the Dormant Bud Cryo-Technique
- Discussion among the participants and with the Chairs of the Cryopreservation WG on the opportunity to develop an agreement for a Network of European Centers on the Dormant Bud Cryo-Technique.
- 17.00 Transfer from CAV to Faenza by bus

23 May

- 9.00 Transfer from the hotel in Faenza to Cesena, Battistini Vivai
- 9.30-12.00 Visit to the new micropropagation laboratory (VitroLeaf) of Battistini Vivai ⁽²⁾
- 12.00 End of the Training School. Drop-off at the Cesena train station

⁽¹⁾ The CAV, Centro Attività Vivaistiche, is equipped with screenhouses for the conservation of fruit germplasm and cutting-edge laboratories both for the molecular characterization of the accessions, and for the evaluation of their "pathogen-free" status (viruses, bacteria, phytoplasmas). The material stored in cryobanks must always be certified for genetic-health compliance. It follows the undoubted interest of this visit to a Center of excellence, the most important in Italy, for the conservation of fruit biodiversity.

⁽²⁾ The new commercial micropropagation laboratory of Battistini Vivai was recently established with an absolutely innovative technological approach, and is the largest in Italy. Since many cryopreservation techniques are based on the use of material coming from micropropagation, this visit is considered to be of extreme interest for the Training School participants.