



## Improvement of fruit tree data inclusion in EURISCO - FRUITTREEDATA

Hjeltnes, S.H.<sup>8</sup>; Adam-Blondon, A.-F.<sup>18</sup>; Békefi, Z.<sup>6</sup>; Bergamaschi, M.<sup>3</sup>; Carka, F.<sup>11</sup>; Delmas, M.<sup>12</sup>; Denancé, C.<sup>10</sup>; Giovannini, D.<sup>3</sup>; Haikonen, T.<sup>14</sup>; Höfer, M.<sup>5</sup>; Kaldmäe, H.<sup>16</sup>; Patocchi, A.<sup>4</sup>; Krska, B.<sup>9</sup>; Kägi, C.<sup>19</sup>; Lacis, G.<sup>13</sup>; Lateur, M.<sup>2</sup>; Muranty, H.<sup>10</sup>; Osterc, G.<sup>15</sup>; Sedlak, J.<sup>9</sup>; van Dooijeweert, W.<sup>7</sup>; Weise, S.<sup>17</sup>; Ordidge, M.<sup>1</sup>.

## Introduction to the project

The FRUITTREEDATA project includes 19 partners from 15 countries and is funded under the European Cooperative Program for plant Genetic Resources (ECPGR) Activity Grant Scheme. The main activities in the project will be carried out in 2024 and 2025. The objective of the project is to support the inclusion of Characterization & Evaluation (C&E) data for *Prunus* (and *Malus/Pyrus*) in the EURISCO information system.

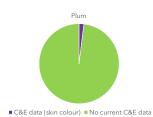


Participating countries in the project Created with mapchart.net

Very few C&E data for the fruit tree crops exist in EURISCO, as illustrated in the pie-charts at right. The FRUITTREDATA project aims to improve this picture. EURISCO currently lists 5,728 accessions of *Prunus domestica* from genebanks across 25 countries whilst C&E data are available for only 110 of these accessions (all of these are in Czechia); 2,623 *Prunus armeniaca* accessions are listed from genebanks across 15 countries whilst C&E data are available for only 210 of these accessions (and again, all of these are in Czechia).

More C&E data is present in the CCDBs, however these databases will be terminated and all future development will be in EURISCO





Recent efforts within ECPGR have updated the standardized C&E descriptor documents for fruit trees. Updated documents have been published for cherry, apple and pear and a document for plum was recently uploaded at ECPGR homepage.

ECPGR members have been collecting C&E data on their accessions for a number of years.



Data from the CCDBs in Prunus, Malus and Pyrus need to be exported to EURISCO. New data from the collections will be uploaded directly to EURISCO We are also aware of gaps between the listings of accessions in EURISCO and the material that is known to the curators of the field genebanks. The project aims to fill this gap by identifying accessions for potential inclusion in National Listings. Additionally, for *Malus*, *Pyrus* and *Prunus* (cherry) the recently developed system of MUNQ/PUNQ/CHUNQ<sup>1,2</sup> genotype coding will be used to help identify clonal duplicates within EURISCO. No such system is available yet for plums.





\*\*University of Reading, UK; \*\*ZCRA-W, Gembloux, Belgium; \*\*ZCREA Council for Agricultural Research and Economics, Research Centre for Olive, Fruit and Citrus crops, Forli, Italy; \*\*Agroscope, Switzerland; \*\*Sulius Kuhn-Institute, Institute for Breeding Research on Fruit Crops, Germany; \*\*National Agricultural Research and Innovation Centre, Fruitresearch Institute, Hungary; \*\*Zcentre for Genetic Resources the Netherlands (CGN), Wageningen University & Research, The Netherlands; \*\*Nijoes Fruit and Berry Centre, Norway; \*\*Research and Breeding Institute of Pomology Holovousy Ltd., Czech Republic; \*\*19NRAE - IRH, France; \*\*11nstitute of Plant Genetic Resources (Gene Bank of Albania).Agricultural University of Tirana, Albania; \*\*2\*Unité Expérimentale Arboricole, INRAE - IRH, France; \*\*13\*Institute of Horticulture, Latvia; \*\*14Nstural Resources Institute (Luke), Finland; \*\*15\*University of Ljubljana, Slovenia; \*\*16\*Estonian University of Limina, Slovenia; \*\*16\*Estonian Universi

## Reference

Barreneche, T., Cárcamo de la Concepción, M., Blouin-Delmas, M., Ordidge, M., Nybom, H., Lacis, G., Feldmane, D., Sedlak, J., Meland, M., Kaldmãe, H., et al. (2021) SSR-Based Analysis of Genetic Diversity and Structure of Sweet Cherry (*Prunus avium* L.) from 19 Countries in Europe. Plants 10, 1983. https://doi.org/10.3390/plants10101983