

Appendix IV. Current status of seed stock management in European countries

Notes:

Shading indicates countries for which updates were received at the time of the meeting (February 2012). Countries and Institutes in **bold** are members of the WG.

The full names of institutes mentioned by their acronyms are listed in Appendix IV.

| Country | Institute | Medium-term storage (working collection) | Long-term storage (base collection) | Presence of endangered accessions / Reasons | Regeneration frequency | Safety-duplication | Number of accessions | | | | Ready to host under black box agreement | |
|-----------------------|--|--|-------------------------------------|---|--|--|----------------------|----------|--------|--------|---|----------|
| | | | | | | | Cypho- <i>mandra</i> | Physalis | Pepper | Tomato | | Eggplant |
| Armenia | Scientific Center of Vegetable and Industrial Crops, Masis | Room temperature | | Yes / Old, few seeds | Frequent (1-3 / 5-7 years, depending on the age and amount of seeds) | Planned with CGN, the Netherlands | 3 | 15 | 151 | 190 | 34 | No |
| Austria | Government genebanks | | Desiccation -20°C Glass flasks | No | When germination rate <60% | Not yet; arrangement with CGN, the Netherlands, is planned | | 10 | 19 | 12 | 1 | No |
| | Arche Noah, Schiltern (NGO) | Desiccation Air-tight glass flasks | Desiccation -15°C | No | No | No | | | 190 | 580 | 26 | No |
| Azerbaijan | Institute of Genetic Resources, Baku | 4 °C In plastic jars with ≥1000 seeds | - | Yes / Low seed quantity, old seed | | No | | | 66 | 93 | 63 | No |
| Bulgaria | IPGR, Sadovo | +6°C No limit | -18°C 5000 seeds | Yes / Low seed quantity | Depending on germination ability | No | | | 2073 | 1149 | 176 | No |
| | Institute of Vegetable Crops, Maritsa | | | | | | | | 437 | 350 | | |
| Czech Republic | CRI, Genebank Olomouc | | -18°C 50 g | No | 15 years | Yes, in Slovakia | | | 514 | 1604 | 25 | |

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|----------------|---|--|--|---|--|--|----------------------|-----------------|------------------|------------------|---|----------------------------|
| | | | | | | | Cypho- <i>mandra</i> | <i>Physalis</i> | Pepper | Tomato | | Eggplant |
| Estonia | Jõgeva Plant Breeding Institute, Jõgeva | | -18°C | No | | Yes, in Nordgen | | 20 | | | No | |
| France | INRA, Montfavet | 4°C 30-40% RH 500-1000 seeds or more | | A few | 13-20 years | Yes, with French network Tomato 60% Pepper 30% Eggplant 25% | 1 | 9 | 1308 in ECPGR DB | 1008 in ECPGR DB | 1907, not all in ECPGR DB | No |
| Georgia | Institute of Farming, Mtskheta, Tserovani | 4°C Seeds in jars | -18°C | | | 2 Tomato accessions at Svalbard, Norway | | 15 | 16 | 15 | | No |
| Germany | IPK Genebank, Gatersleben | -18°C (all harvested seeds without base sample and safety-duplicate) | -18°C (double amount of regeneration quantity) | No | 15-20 years | Yes, at Svalbard, Norway (currently, 1236 acc. of the 5 crops) | 7 | 42 | 1532 | 4339 | 111 | Yes, depending on capacity |
| Greece | ARCMT, Themi Thessaloniki | 0-5°C 30% RH 5000 seeds | | Yes / Old, few seeds | 15 years | | | | | | | |
| Hungary | RCAT, Tápiósele | 0°C 10-20 g | -20°C 10-20 g | Yes/ Low viability level and/or small quantity | When germination rate <80% of the initial rate | Partly in national base collection | | 17 | 1048 | 1824 | 42 | No |

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|------------------|------------------------------|---|---------------------------------------|--|--|---|----------------------|----------|--------|--------|---|-------------------------|
| | | | | | | | Cypho- <i>mandra</i> | Physalis | Pepper | Tomato | | Eggplant |
| Israel | Volcani Center, Bet Dagan | | -10°C | Yes / No regeneration | No regeneration | | | | | | | |
| | Hebrew University, Jerusalem | Seeds stored at University of California, Davis (USA) | | No | | | | | | | | |
| Italy | IGV-CNR, Bari | 0-4°C | -20°C 1-10 g | Few accessions / Old seed, few seeds or recent introduction from exploration | Not pre-fixed | Only duplicates of samples collected through joint missions with IPK-Gatersleben and the University of Tirana | 192 | 560 | 53 | Yes | | |
| The Netherlands | CGN, Wageningen | Desiccation 4°C 35 seeds pre-packed | -20°C 1000 seeds (if regeneration) | No | Depending on seed viability | Yes, at HRI, United Kingdom | 978 | 1153 | 483 | Yes | | |
| | Botanical Garden Nijmegen | 2-4°C Silica gel Minimum 300 seeds | | Few accessions / Few seeds | 5-10 years | | 15 | 130 | 35 | 20 | 766 | No |
| Nordic countries | NordGen, Alnarp, Sweden | -20°C | -20°C | No | When germination rate is <65% or minimum of 1000 seeds | Yes, at Svalbard, Norway | | | | | | Yes, at Svalbard Norway |

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|---------------------------|---|--|--|---|--|--------------------|----------------------|----------|--------|--------|---|
| | | | | | | | Cyphomandra | Physalis | Pepper | Tomato | |
| Poland | National Centre for Plant Genetic Resources, IJAR, Radzików | 0°C | -18°C Aluminium foil packets under vacuum | No | Depending on age and amount of seed | No | 7 | 305 | 1271 | 18 | No |
| Portugal | BPGV, Braga | 0-5°C 40-50% RH | -20°C No humidity control | No | Last regeneration in 2000 | No | | 114 | 83 | 1 | Yes |
| | EAN, Oeiras | (48 acc.) +4°C Aluminium foil packets under vacuum | | No | Last regeneration in 1990, there are approximately 500 seeds / accession | No | | 51 | | | No |
| | EAN, Oeiras | | (3 acc.) -16°C No humidity control | Yes/ Very few seeds | Seeds were collected in 1982 and never regenerated | No | | | | | |
| Romania | Research Institute for Vegetables and Flowers, Vidra | Room temperature 5-20 grams | | No | When germination <50% | No | 1 | | 90 | 50 | No |
| Russian Federation | VIR, St. Petersburg | 10-15°C 10-14% RH 5-15 g | +4°C 6-9% RH 10-15 g | Yes / Old, few accessions, low germination ability | Working collection 3-10 years Base collection 25 years | Yes | | | | | No |
| Serbia | Centre for Vegetable Crops, Smederevska Palanka | 8°C 5-20 g | | Yes / low germination ability | 10 years | | | 352 | 345 | 44 | |

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|------------------------|---|---|--|---|---|--|----------------------|----------|--------|--------|---|
| | | | | | | | Cypho- mandra | Physalis | Pepper | Tomato | |
| Slovak Republic | PPRC Genebank, Piešťany | +5°C Desiccation ≥1000 seeds | -18°C Desiccation ≥1000 seeds | No | Monitoring every 5 years, when viability falls | Yes, in Genebank Prague, Czech Republic 500 seeds | | | | | No |
| Spain | COMAV, Polytechnic University of Valencia | 3°C Desiccation with silica gel 5-6% RH (200-5000 seeds) | No | No | Depending on seed viability | Almost all the collection is duplicated in: - Centre for Genetic Resources, Alcalá de Henares, Madrid - Vegetables Genebank, Zaragoza | 57 | 61 | | | No |
| Turkey | AARI, Izmir | Desiccation 0°C for active collection and +4°C for breeders' working samples | Desiccation -18°C | No | Depending on viability and number of seeds | Yes, at CRIFC, Ankara | 850 | 516 | 265 | | No |
| Ukraine | Institute of Vegetables and Melon Crops, Kharkov | | -18°C | | | | 625 | 2433 | 299 | | |