**Supplementary Material**

**Table S1** Type of data considered for database elaboration of CWR in Mauritius and Rodrigues and sources used

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| --- | --- | --- | --- |
| **Inventory information** | **Explanation** | **Categories** | **References** |
| **Family** | Accepted family (APG IV) | - | (Angiosperm Phylogeny Group, 2016) |
| **Species name and authors** | Accepted species name and authors, including infraspecies, if any. | - | (Bosser *et al.,* 1976-onwards) Global online databases were sometimes used to verified and confirmed taxa name and authority as The Plant List (http://www.theplantlist.org/), International Plant Names (http://www.ipni.org); TROPICOS (<http://tropicos.org> and <http://tropicos.org/Project/Madagascar>); GBIF (https://www.gbif.org/) |
| **Occurrence status**  | Whether the taxon is native to the country or probably native and its relative endemism  | i) native, ii) probably native, iii) island endemic, iv) endemic to the Mascarenes | (Bosser *et al.,* 1976-onwards) |
| **Global distribution** | Global distribution of each individual taxon | i) Mauritius only, ii) Rodrigues only, iii) Mauritius and Rodrigues, iv) Mascarenes or v) Western Indian Ocean islands (WIOI) or vi) Native (beyond WIOI) | (Bosser *et al.,*1976-onwards) |
| **Economic use category** | Economic use was assigned to genus, wherever possible, considering category of the related crop according to Hanelt and IPK (2001) and expert knowledge. | i) agricultural food crop, ii) forestry, iii) ornamental, iv) medicinal, v) other uses | (Hanelt and IPK, 2001) |
| **Economic value of** **related crop** | Economic importance was divided into global level (related crop commercially exploited at the global level, thus important economically for other countries than its own) and national level (related crop is commercially exploited only locally). | i) global level, ii) national level | (FAO, 2015;Statistics Mauritius, 2015) |
| **Genetic relationshipwith the crop** | Genus was attributed to the appropriate sub-level based upon crossability data. | i) GP1a, ii) GP1b, iii) GP2, iv) GP3 | (Vincent *et al.,* 2013) |
| **Taxonomic relationshipwith the crop** | Whenever, a genetic relationship of the wild relative to the crop could not be assigned to the genus, the taxon group concept (Maxted *et al.,* 2006) was employed using the taxonomic hierarchy as a proxy for taxon genetic relatedness and crossability. | i) TG1a, ii) TG1b, iii) TG2, iv) TG3, v) TG4, vi) TG5 | (Maxted *et al.,* 2006;Vincent *et al.,* 2013) |
| **Threat assessment** | Based on threat assessment following the national IUCN Red List Categories | i) Critically Endangered (CR), ii) Endangered (EN), iii) Vulnerable (VU), iv) Near Threatened (NT), v) Data Deficient (DD), vi) Not Evaluated (NE), vii) Least Concern (LC) | (IUCN, 2001) |

**Table S2** Criteria for prioritisation of the CWR for Mauritius and Rodrigues with their respective scores

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| --- | --- |
| **Criteria** | **Score** |
| **Economic value of** **related crop**     | National   | High | 5 |
| Medium | 4 |
| Low | 3 |
| Global   | High | 10 |
| Medium | 8 |
| Low | 6 |
| **Utilisation potential as gene donor**  | GP1b | 10 |
| GP2 | 8 |
| GP3 | 6 |
| TG4 | 4 |
| **IUCN Red List conservation status** | Critically Endangered (CR) | 5 |
| Endangered (EN) | 4 |
| Vulnerable (VU) | 3 |
| Near Threatened (NT) | 2 |
| Data Deficient (DD) | 1 |
| Not Evaluated (NE) | 1 |
| Least Concern (LC) | 0 |
| **Occurrence status**  | Single island endemic (Mauritius or Rodrigues) | 5 |
| Endemic to Mascarenes | 4 |
| Native (excluding endemics)1 | 3 |

1 Excluding species that are endemic to Mauritius, Rodrigues and to the Mascarenes.