Supporting information to the paper

Cruz-Tejada, D.M. et al. MedGermDB: a seed germination database for characteristic species of Mediterranean habitats. *Applied Vegetation Science.*

**Appendix S4**. Column description of the Germination database File including three blocks of the recorded germination information

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| --- | --- | --- | --- |
| Block | Field name | Description | Notes/Categories |
| 1. Seed Collection | id\_test | Unique number to each experiment |  |
|  | accepted\_binomial | accepted name standardised with WCVP (Govaerts et al. 2021) | unique identifier to join tables |
|  | EUNIS\_name | original species name from EUNIS |  |
|  | original\_name | original species name found in the literature |  |
|  | contributor\_name | “Family name, Name” of the responsible person of the database creation |  |
|  | contributor\_email | “Email” of the responsible person of the database creation |  |
|  | cocontributors | other people responsible for producing the dataset |  |
|  | doi | Doi of the literature source |  |
|  | collection\_year | year on which the seed lot was collected |  |
|  | collection\_site | low-level toponym identifying the population | name of the place where the seed lot was collected |
|  | collection\_country | country where the seed lot was collected |  |
|  | iso\_code | country code of The International Organization for Standardization |  |
|  | latitude | approximated latitude where the seed lot was collected, in decimal degrees |  |
|  | longitude | approximated longitude where the seed lot was collected, in decimal degrees |  |
|  | coordinate\_accuracy | precision of the location where the seed lot was collected | 100 m: coordinates provided.  500 m: coordinates provided just for one population and the others were estimated based on the gradient distances provided.  1000 m: specific location provided; coordinates estimated with Google Maps.  10.000 m: no specific location provided; coordinates estimated with Google Maps.  100.000 m: specific region provided; coordinates estimated with Google Maps.  500.000 m: no specific region provided; coordinates estimated with Google Maps. |
| 2. Experimental conditions | storage | storage conditions in which the seed lot was kept between seed collection and the start of the experiments | temperature of storage, RH, time.  fresh:< 1 month, RH >30%, room conditions;  stored: > 1 month, RH>15%, room conditions, unknown: assumed storage > 1 month);  banked: > 1 month, RH<15%, < 0°C, dry conditions, germplasm bank |
|  | substrate | substrate used to hold the seeds during the germination incubation | agar; filter paper; sand;  soil; others |
|  | experiment\_length | number of days between the start of the experiment, and the last day when germinated seeds were counted |  |
|  | scarification | type and length of the scarification treatment if it was applied before the germination test | mechanical;  dry heat (dry heat, fire);  wet heat (wet heat, boiling water);  chemical; endozoocory |
|  | stratification | type and length of the stratification treatment if it was applied before the germination | none, cold [<15°C], warm [≥15°C] (Baskin & Baskin 2014) |
|  | other\_treatments | other treatments applied before the germination | sterilization, salinity, smoke |
|  | water\_potential | values of water potential during the germination |  |
|  | photoperiod | number of hours of exposure to light in the daily photoperiod |  |
|  | light\_quality | quality of light used in the experiments | none, white, others |
|  | T\_day | hottest temperature applied during the day |  |
|  | T\_night | coldest temperature applied during the night |  |
| 3. Germination data | seeds\_sown | count of seeds used in the experiment |  |
|  | seeds\_germinated | count of seeds that germinated during the experiment |  |

**Appendix S5.** Column description of the Taxa File listing the original EUNIS names and the corresponding taxonomical information based on Govaerts (2022)

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| --- | --- | --- |
| Field name | Description | Notes |
| WCVP\_id | the WCVP (Govaerts et al., 2021) identifier |  |
| accepted\_binomial | accepted name standardised with WCVP (Govaerts et al. 2021) | unique identifier to join tables |
| authority | authority for the accepted binomial according to Govaerts et al. (2021) |  |
| EUNIS\_name | original species name from EUNIS |  |
| original\_name | original species name found in the literature source |  |
| family | family name according to Govaerts et al. (2021) |  |
| order | order name according to Govaerts et al. (2021) |  |
| APG\_clade | main clade |  |

**Appendix S6.** Column description of the Habitat File containing the species list included in the database and the EUNIS habitats where they are present.

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| --- | --- | --- |
| Field name | Description | Notes |
| WCVP\_id | the WCVP (Govaerts et al., 2021) identifier |  |
| accepted\_binomial | accepted name standardised with WCVP (Govaerts et al. 2021) | unique identifier to join tables |
| EUNIS\_name | original species name used in EUNIS-Esy expert system (Chytrý et al. 2020) |  |
| species\_type | characterization of vegetation type used in EUNIS-Esy system | Diagnostic; Constant; Dominant |
| Habitat level 1 | habitat group name provided by EUNIS-Esy system | Coastal; Forests; Grasslands; Man-made; Scrublands; Wetlands |
| Habitat level 3 | habitat name of level 3 provided by EUNIS-Esy system |  |