

**Table S1.** List of the accessions presenting a Foliar Symptoms Index 20 days after the inoculation (FSI<sub>20</sub>) of less than 3.5 with a 10<sup>3</sup> zoospores/mL dose for at least one isolate. Includes ID, bank code, taxa, and the average FSI<sub>20</sub> ± SE for the two *A. euteiches* isolates, Aph1 and Aph2.

| ID  | Reference | Taxa                               | FSI <sub>20</sub> |         |
|-----|-----------|------------------------------------|-------------------|---------|
|     |           |                                    | Aph1              | Aph2    |
| 8   | PI 143483 | <i>P.s. subsp. sativum</i>         | 3.2±0.3           | 5.0±0.0 |
| 21  | PI 204305 | <i>P.s. subsp. sativum</i>         | 3.2±0.3           | 2.0±0.4 |
| 22  | PI 204667 | <i>P.s. subsp. sativum</i>         | 3.2±0.3           | 2.5±0.2 |
| 23  | PI 220175 | <i>P.s. subsp. humile</i>          | 2.8±0.2           | 1.7±0.4 |
| 24  | PI 220673 | <i>P.s. subsp. arvense</i>         | 3.2±0.3           | 5.0±0.0 |
| 25  | PI 222069 | <i>P.s. subsp. humile</i>          | 3.3±0.3           | 5.0±0.0 |
| 28  | PI 254626 | <i>P.s. subsp. jomardii</i>        | 4.7±0.3           | 3.2±0.6 |
| 41  | PI 306592 | <i>P.s. subsp. jomardii</i>        | 4.5±0.2           | 3.3±0.2 |
| 63  | PI 347330 | <i>P. sativum</i> "Indian ecotype" | 3.2±0.3           | 4.8±0.2 |
| 70  | PI 347342 | <i>P.s. subsp. arvense</i>         | 3.5±0.2           | 5.0±0.0 |
| 81  | PI 347373 | <i>P.s. subsp. arvense</i>         | 3.2±0.2           | 5.0±0.0 |
| 82  | PI 347374 | <i>P.s. subsp. arvense</i>         | 3.3±0.2           | 4.8±0.2 |
| 83  | PI 347375 | <i>P.s. subsp. arvense</i>         | 3.2±0.3           | 5.0±0.0 |
| 88  | PI 347401 | <i>P. sativum</i> "Indian ecotype" | 3.5±0.3           | 5.0±0.0 |
| 98  | PI 595945 | <i>P. fulvum</i>                   | 2.5±0.4           | 3.0±0.3 |
| 100 | JI 85     | <i>P.s. subsp. humile</i>          | 1.7±0.2           | 2.3±0.3 |
| 102 | JI 156    | <i>P.s. subsp. jomardii</i>        | 3.8±0.2           | 3.3±0.3 |
| 103 | JI 262    | <i>P.s. subsp. elatius</i>         | 1.2±0.5           | 0.5±0.2 |
| 104 | JI 263    | <i>P.s. subsp. jomardii</i>        | 3.2±0.2           | 4.5±0.3 |
| 105 | JI 228    | <i>P.s. subsp. arvense</i>         | 3.2±0.2           | 5.0±0.0 |
| 107 | JI 209    | <i>P.s. subsp. jomardii</i>        | 3.5±0.3           | 5.0±0.0 |
| 110 | JI 196    | <i>P.s. subsp. humile</i>          | 3.5±0.2           | 5.0±0.0 |
| 111 | JI 190    | <i>P.s. subsp. jomardii</i>        | 3.5±0.2           | 5.0±0.0 |
| 115 | JI 268    | <i>P.s. subsp. jomardii</i>        | 3.5±0.2           | 5.0±0.0 |
| 116 | JI 275    | <i>P.s. subsp. arvense</i>         | 3.2±0.2           | 4.5±0.3 |
| 117 | JI 280    | <i>P.s. subsp. jomardii</i>        | 2.0±0.4           | 2.2±0.6 |
| 118 | JI 288    | <i>P.s. subsp. arvense</i>         | 3.5±0.4           | 4.8±0.2 |
| 123 | JI 1089   | <i>P.s. subsp. jomardii</i>        | 3.2±0.2           | 5.0±0.0 |
| 124 | JI 1107   | <i>P.s. subsp. humile</i>          | 1.8±0.4           | 3.0±0.0 |
| 132 | JI 2387   | <i>P.s. subsp. arvense</i>         | 3.3±0.2           | 5.0±0.0 |
| 133 | JI 2545   | <i>P.s. subsp. humile</i>          | 1.2±0.5           | 0.7±0.3 |
| 134 | BGE001004 | <i>P.s. subsp. jomardii</i>        | 3.5±0.2           | 4.5±0.5 |
| 140 | BGE002168 | <i>P.s. subsp. jomardii</i>        | 3.2±0.3           | 5.0±0.0 |
| 141 | BGE003315 | <i>P.s. subsp. arvense</i>         | 3.3±0.2           | 4.8±0.2 |
| 144 | BGE004958 | <i>P.s. subsp. jomardii</i>        | 3.3±0.3           | 5.0±0.0 |
| 146 | BGE006126 | <i>P.s. subsp. sativum</i>         | 3.2±0.2           | 4.7±0.3 |
| 147 | BGE019594 | <i>P.s. subsp. arvense</i>         | 3.5±0.2           | 5.0±0.0 |
| 149 | BGE020326 | <i>P.s. subsp. arvense</i>         | 3.2±0.5           | 4.8±0.2 |
| 150 | BGE023256 | <i>P.s. subsp. jomardii</i>        | 1.8±0.3           | 0.8±0.3 |
| 154 | BGE026428 | <i>P.s. subsp. sativum</i>         | 3.3±0.2           | 4.7±0.2 |
| 156 | CGN16690  | <i>P.s. subsp. jomardii</i>        | 0.7±0.3           | 1.3±0.4 |
| 159 | CGN16640  | <i>P.s. subsp. jomardii</i>        | 3.2±0.5           | 5.0±0.0 |
| 160 | CGN16562  | <i>P.s. subsp. humile</i>          | 3.2±0.2           | 5.0±0.0 |
| 162 | CGN16581  | <i>P.s. subsp. jomardii</i>        | 3.3±0.2           | 4.7±0.2 |
| 165 | CGN16582  | <i>P.s. subsp. humile</i>          | 1.7±0.3           | 1.7±0.7 |
| 169 | CGN03328  | <i>P.s. subsp. humile</i>          | 1.5±0.5           | 1.7±0.5 |
| 170 | CGN03170  | <i>P.s. subsp. arvense</i>         | 3.5±0.2           | 5.0±0.0 |
| 171 | CGN03190  | <i>P.s. subsp. jomardii</i>        | 3.3±0.2           | 5.0±0.0 |
| 172 | CGN03245  | <i>P.s. subsp. arvense</i>         | 3.2±0.3           | 4.8±0.2 |
| 173 | CGN03165  | <i>P.s. subsp. jomardii</i>        | 3.2±0.3           | 2.7±0.5 |
| 175 | CGN03171  | <i>P.s. subsp. jomardii</i>        | 3.5±0.2           | 5.0±0.0 |
| 182 | PI 413686 | <i>P.s. subsp. sativum</i>         | 3.2±0.2           | 5.0±0.0 |
| 183 | PI 477371 | <i>P.s. subsp. jomardii</i>        | 1.7±0.2           | 1.8±0.5 |
| 187 | PI 324705 | <i>P.s. subsp. jomardii</i>        | 3.2±0.2           | 4.5±0.3 |
| 192 | PI 198074 | <i>P.s. subsp. jomardii</i>        | 3.2±0.3           | 5.0±0.0 |
| 194 | PI 357293 | <i>P.s. subsp. sativum</i>         | 3.2±0.3           | 4.8±0.2 |
| 195 | PI 249645 | <i>P.s. subsp. arvense</i>         | 3.2±0.4           | 5.0±0.0 |
| 197 | PI 357289 | <i>P.s. subsp. sativum</i>         | 3.3±0.2           | 5.0±0.0 |

|                    |           |                             |         |         |
|--------------------|-----------|-----------------------------|---------|---------|
| 207                | JI 2302   | <i>P.s. subsp. sativum</i>  | 3.3±0.4 | 5.0±0.0 |
| 214                | Kagpa     | <i>P.s. subsp. sativum</i>  | 3.2±0.2 | 5.0±0.0 |
| 216                | Pinochio  | <i>P.s. subsp. sativum</i>  | 3.2±0.5 | 5.0±0.0 |
| 220                | JI 1210   | <i>P.s. subsp. sativum</i>  | 3.2±0.2 | 5.0±0.0 |
| 227                | JI 82     | <i>P.s. subsp. humile</i>   | 3.5±0.6 | 4.3±0.4 |
| 233                | W6 17517  | <i>P.s. subsp. sativum</i>  | 3.2±0.2 | 5.0±0.0 |
| 235                | W6 17520  | <i>P.s. subsp. sativum</i>  | 3.3±0.4 | 5.0±0.0 |
| 240                | BGE023667 | <i>P.s. subsp. jomardii</i> | 3.3±0.4 | 4.0±0.3 |
| 244                | PI 173055 | <i>P.s. subsp. elatius</i>  | 4.2±0.4 | 3.5±0.2 |
| 246                | PI 273209 | <i>P.s. subsp. elatius</i>  | 1.2±0.4 | 0.0±0.0 |
| 247                | PI 344003 | <i>P.s. subsp. arvense</i>  | 3.2±0.4 | 4.8±0.2 |
| 256                | PI 505127 | <i>P.s. subsp. jomardii</i> | 3.0±0.3 | 5.0±0.0 |
| 261                | PI 505111 | <i>P.s. subsp. jomardii</i> | 3.0±0.4 | 5.0±0.0 |
| 263                | JI 45     | <i>P.s. subsp. humile</i>   | 1.8±0.6 | 0.8±0.3 |
| 264                | JI 198    | <i>P.s. subsp. arvense</i>  | 2.7±0.2 | 1.3±0.4 |
| 265                | JI 199    | <i>P.s. subsp. arvense</i>  | 2.5±0.2 | 0.0±0.0 |
| 270                | JI 804    | <i>P.s. subsp. humile</i>   | 1.4±0.2 | 2.2±0.3 |
| 271                | JI 1398   | <i>P.s. subsp. humile</i>   | 1.4±0.5 | 1.5±0.5 |
| 272                | JI 1428   | <i>P.s. subsp. humile</i>   | 1.7±0.6 | 0.3±0.3 |
| 277                | CGN10205  | <i>P.s. subsp. elatius</i>  | 4.3±0.3 | 3.5±0.2 |
| 278                | CGN10206  | <i>P.s. subsp. elatius</i>  | 2.0±0.3 | 1.8±0.5 |
| 281                | IFPI 3370 | <i>P.s. subsp. jomardii</i> | 2.8±0.4 | 2.3±0.5 |
| 283                | IFPI 436  | <i>P.s. subsp. jomardii</i> | 2.4±0.4 | 1.5±0.4 |
| 284                | IFPI 2348 | <i>P.s. subsp. arvense</i>  | 3.0±0.3 | 2.0±0.0 |
| 300                | IFPI 2370 | <i>P.s. subsp. arvense</i>  | 3.0±0.3 | 2.3±0.3 |
| 303                | IFPI 2441 | <i>P.s. subsp. jomardii</i> | 3.5±0.2 | 5.0±0.0 |
| 315                | IFPI 3330 | <i>P.s. subsp. jomardii</i> | 2.8±0.4 | 2.8±0.5 |
| 316                | IFPI 3334 | <i>P.s. subsp. elatius</i>  | 2.5±0.2 | 3.5±0.6 |
| 319                |           | <i>P.s. subsp. jomardii</i> | 2.7±0.3 | 2.3±0.2 |
| Rest of accessions |           |                             | >3.5    | >3.5    |

**Table S2.** Average Foliar Symptoms Index (FSI<sub>20</sub>) and Root Rot Index (RRI<sub>20</sub>) ± Standard Error (SE) for the 40 selected accessions inoculated with both isolates (Aph1 and Aph2) at 10<sup>3</sup> and 10<sup>4</sup> zoospores/mL. Asterisks indicate values significantly different from the susceptible control Messire (\* p ≤ 0.1, \*\* p ≤ 0.05 and \*\*\* p ≤ 0.01).

| ID  | Taxa                          | Class <sup>(-)</sup> | FSI <sub>20</sub> |                 |                 |                 | RRI <sub>20</sub> |                 |                 |                 |
|-----|-------------------------------|----------------------|-------------------|-----------------|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|
|     |                               |                      | Aph1              |                 | Aph2            |                 | Aph1              |                 | Aph2            |                 |
|     |                               |                      | 10 <sup>3</sup>   | 10 <sup>4</sup> | 10 <sup>3</sup> | 10 <sup>4</sup> | 10 <sup>3</sup>   | 10 <sup>4</sup> | 10 <sup>3</sup> | 10 <sup>4</sup> |
| 21  | <i>P.s. subsp. sativum</i>    | (VS)                 | 2.7±0.3           | 3.4±0.2         | 3.2±0.1         | 4.2±0.2         | 6.9±0.2           | 8.2±0.2         | 6.7±0.7         | 8.2±0.4         |
| 22  | <i>P.s. subsp. sativum</i>    | (S)                  | 3.1±0.3           | 3.2±0.3         | 2.2±0.2***      | 3.8±0.3         | 6.0±0.4           | 6.7±0.4         | 5.7±0.4*        | 7.9±0.3         |
| 23  | <i>P.s. subsp. humile</i>     | (VS)                 | 3.0±0.4           | 3.2±0.4         | 2.5±0.4**       | 3.4±0.4         | 6.4±0.5           | 7.1±0.4         | 6.7±0.4         | 8.0±0.2         |
| 68  | <i>P. s. "Indian ecotype"</i> | (VS)                 | 3.9±0.2           | 4.0±0.2         | 4.2±0.2         | 4.2±0.2         | 7.6±0.3           | 7.6±0.4         | 7.3±0.5         | 7.9±0.2         |
| 84  | <i>P.s. subsp. arvense</i>    | (VS)                 | 3.8±0.2           | 3.6±0.1         | 4.3±0.3         | 4.1±0.2         | 7.2±0.3           | 6.8±0.2         | 7.5±0.2         | 8.3±0.2         |
| 98  | <i>P. fulvum</i>              | (VS)                 | 3.2±0.4           | 3.9±0.3         | 4.1±0.3         | 4.7±0.1         | 6.5±0.5           | 7.5±0.4         | 8.1±0.3         | 8.5±0.2         |
| 100 | <i>P.s. subsp. humile</i>     | (MS)                 | 2.3±0.3           | 1.8±0.3***      | 2.0±0.4***      | 4.4±0.3         | 4.4±0.5***        | 4.8±0.7***      | 4.2±0.7***      | 8.3±0.3         |
| 103 | <i>P.s. subsp. elatius</i>    | (S)                  | 2.0±0.3*          | 3.9±0.4         | 1.0±0.4***      | 4.0±0.3         | 5.8±0.5           | 7.6±0.3         | 6.0±0.5         | 7.2±0.5*        |
| 117 | <i>P.s. subsp. jomardii</i>   | (MS)                 | 0.8±0.2***        | 1.4±0.4***      | 1.8±0.5***      | 2.2±0.5***      | 4.6±0.4***        | 5.7±0.5***      | 5.8±0.4         | 7.1±0.3*        |
| 124 | <i>P.s. subsp. humile</i>     | (MR)                 | 0.6±0.3***        | 1.1±0.4***      | 1.3±0.3***      | 2.2±0.1***      | 3.5±0.5***        | 3.6±0.4***      | 4.1±0.6***      | 5.8±0.3***      |
| 133 | <i>P.s. subsp. humile</i>     | (S)                  | 2.1±0.1*          | 2.8±0.5**       | 2.3±0.3***      | 3.0±0.5***      | 6.1±0.4           | 6.9±0.6         | 6.7±0.3         | 7.2±0.5         |
| 150 | <i>P.s. subsp. jomardii</i>   | (MS)                 | 2.5±0.3           | 3.2±0.3         | 2.2±0.2***      | 2.8±0.3***      | 5.2±0.4           | 6.2±0.5*        | 4.7±0.4***      | 6.7±0.3***      |
| 156 | <i>P.s. subsp. jomardii</i>   | (MS)                 | 1.5±0.4***        | 1.8±0.3***      | 1.4±0.2***      | 2.3±0.3***      | 5.5±0.4           | 5.8±0.4***      | 4.0±0.6***      | 6.5±0.2***      |
| 163 | <i>P.s. subsp. arvense</i>    | (VS)                 | 3.7±0.3           | 3.5±0.2         | 4.2±0.1         | 4.4±0.2         | 7.7±0.1           | 7.0±0.3         | 8.0±0.2         | 8.1±0.2         |
| 165 | <i>P.s. subsp. humile</i>     | (MS)                 | 0.4±0.1***        | 1.4±0.3***      | 0.7±0.2**       | 1.7±0.4***      | 3.2±0.5***        | 5.4±0.4***      | 4.9±0.4***      | 6.5±0.4***      |
| 169 | <i>P.s. subsp. humile</i>     | (MS)                 | 1.7±0.5***        | 3.3±0.2         | 1.9±0.3***      | 3.9±0.3         | 4.5±0.4***        | 6.7±0.3         | 4.9±0.5***      | 7.4±0.4         |
| 173 | <i>P.s. subsp. jomardii</i>   | (S)                  | 2.5±0.4           | 3.1±0.3         | 2.7±0.5*        | 3.1±0.3***      | 6.6±0.3           | 6.5±0.5         | 6.2±0.7         | 6.8±0.3***      |
| 183 | <i>P.s. subsp. jomardii</i>   | (MR)                 | 1.1±0.3***        | 2.3±0.3***      | 2.0±0.3***      | 2.2±0.4***      | 3.2±0.5***        | 5.2±0.4***      | 5.4±0.3**       | 6.2±0.4***      |
| 246 | <i>P.s. subsp. elatius</i>    | (MS)                 | 1.3±0.3***        | 2.4±0.2***      | 2.2±0.2***      | 3.3±0.3*        | 4.6±0.3***        | 5.3±0.4***      | 5.3±0.6**       | 6.8±0.4***      |
| 250 | <i>P.s. subsp. elatius</i>    | (S)                  | 3.3±0.3           | 3.6±0.3         | 3.8±0.2         | 3.9±0.3         | 5.8±0.3           | 6.8±0.4         | 6.2±0.3         | 7.2±0.4*        |
| 263 | <i>P.s. subsp. humile</i>     | (S)                  | 2.3±0.4           | 3.2±0.5         | 2.6±0.3*        | 3.5±0.3         | 6.6±0.5           | 7.2±0.3         | 6.0±0.4         | 7.9±0.3         |
| 264 | <i>P.s. subsp. arvense</i>    | (MS)                 | 1.5±0.4***        | 3.3±0.3         | 1.8±0.4***      | 2.9±0.4***      | 4.7±0.5***        | 5.7±0.6***      | 5.2±0.7***      | 6.7±0.4***      |
| 265 | <i>P.s. subsp. arvense</i>    | (S)                  | 2.6±0.5           | 3.2±0.3         | 0.5±0.2***      | 4.1±0.3         | 6.6±0.3           | 6.8±0.4         | 4.0±0.4***      | 7.4±0.3         |
| 270 | <i>P.s. subsp. humile</i>     | (MS)                 | 1.3±0.1***        | 1.6±0.4***      | 2.1±0.4***      | 2.1±0.3***      | 3.9±0.3***        | 6.2±0.4**       | 7.0±0.4         | 6.7±0.3***      |

|         |                             |      |            |            |            |            |            |            |            |            |
|---------|-----------------------------|------|------------|------------|------------|------------|------------|------------|------------|------------|
| 271     | <i>P.s. subsp. humile</i>   | (MS) | 1.5±0.3*** | 1.8±0.3*** | 1.7±0.3*** | 2.8±0.4*** | 4.9±0.5*   | 5.7±0.4*** | 5.5±0.2**  | 7.2±0.4*   |
| 272     | <i>P.s. subsp. humile</i>   | (VR) | 0.5±0.2*** | 0.4±0.1*** | 0.5±0.3*** | 1.3±0.3*** | 1.2±0.5*** | 1.3±0.4*** | 3.2±0.6*** | 4.2±0.4*** |
| 278     | <i>P.s. subsp. elatius</i>  | (MS) | 1.8±0.4**  | 2.8±0.2*   | 1.9±0.3*** | 4.0±0.3    | 4.8±0.6**  | 5.7±0.4*** | 6.4±0.4    | 6.8±0.6*** |
| 279     | <i>P.s. subsp. jomardii</i> | (S)  | 3.8±0.2    | 3.7±0.2    | 2.7±0.5*   | 3.7±0.1    | 7.1±0.3    | 6.7±0.4    | 5.8±0.4    | 8.1±0.2    |
| 281     | <i>P.s. subsp. jomardii</i> | (S)  | 2.1±0.4*   | 1.8±0.3*** | 1.9±0.2*** | 2.8±0.3*** | 5.5±0.6    | 6.2±0.3    | 6.2±0.5    | 7.0±0.3**  |
| 283     | <i>P.s. subsp. jomardii</i> | (S)  | 2.8±0.3    | 3.7±0.2    | 2.9±0.2    | 3.8±0.3    | 6.0±0.4    | 6.2±0.5**  | 7.1±0.4    | 7.8±0.3    |
| 284     | <i>P.s. subsp. arvense</i>  | (MS) | 2.2±0.3*   | 2.9±0.3    | 2.4±0.2*** | 3.5±0.2    | 5.2±0.4    | 6.0±0.5**  | 5.4±0.3**  | 6.2±0.4*** |
| 300     | <i>P.s. subsp. arvense</i>  | (S)  | 2.4±0.3    | 3.2±0.3    | 2.6±0.3*   | 3.9±0.4    | 5.4±0.3    | 6.5±0.4    | 5.8±0.6    | 7.5±0.3    |
| 303     | <i>P.s. subsp. jomardii</i> | (S)  | 2.3±0.1    | 3.8±0.2    | 4.3±0.3    | 3.8±0.2    | 5.6±0.5    | 7.2±0.3    | 7.0±0.3    | 7.8±0.2    |
| 306     | <i>P.s. subsp. jomardii</i> | (VS) | 3.7±0.2    | 3.8±0.2    | 4.3±0.3    | 4.4±0.2    | 7.8±0.2    | 7.0±0.4    | 8.5±0.2    | 7.8±0.3    |
| 310     | <i>P. fulvum</i>            | (VS) | 3.9±0.3    | 4.3±0.3    | 4.8±0.1    | 4.6±0.1    | 5.7±0.5    | 7.2±0.4    | 7.8±0.5    | 8.4±0.3    |
| 315     | <i>P.s. subsp. jomardii</i> | (S)  | 2.5±0.3    | 2.8±0.2*   | 3.1±0.3    | 4.2±0.3    | 5.2±0.5    | 6.0±0.6**  | 6.9±0.5    | 8.4±0.2    |
| 316     | <i>P.s. subsp. elatius</i>  | (VS) | 2.1±0.3*   | 3.2±0.3    | 4.2±0.3    | 4.3±0.2    | 5.7±0.4    | 6.9±0.4    | 7.8±0.3    | 8.4±0.2    |
| 319     | <i>P.s. subsp. jomardii</i> | (MS) | 1.7±0.3*** | 2.6±0.4**  | 1.8±0.3*** | 2.7±0.3*** | 4.4±0.5*** | 5.5±0.6*** | 4.7±0.3*** | 6.7±0.4*** |
| 321     | <i>P.s. subsp. sativum</i>  | (VS) | 3.4±0.3    | 3.8±0.2    | 4.2±0.2    | 4.3±0.2    | 7.6±0.3    | 7.8±0.2    | 8.1±0.2    | 8.2±0.2    |
| Messire | <i>P.s. subsp. sativum</i>  | (VS) | 3.5±0.3    | 4.1±0.3    | 4.0±0.3    | 4.6±0.2    | 6.8±0.5    | 8.0±0.4    | 7.6±0.4    | 8.5±0.2    |

(\*) Class of susceptibility: Very Resistant (VR) (RRI<sub>20</sub> 0 to 3), Resistant (R) (RRI<sub>20</sub> 3 to 4), Moderately Resistant (MR) (RRI<sub>20</sub> 4 to 5), Moderately Susceptible (MS) (RRI<sub>20</sub> 5 to 6), Susceptible (S) (RRI<sub>20</sub> 6 to 7) and Very Susceptible (VS) (RRI<sub>20</sub> 8 to 9).

**Table S3.** Accession list of the *Pisum* collection including ID, bank code, species, population structure and origin.

| ID | Reference | Taxa                               | Structure <sup>1</sup> | Origin      |
|----|-----------|------------------------------------|------------------------|-------------|
| 1  | PI 109865 | <i>P.s. subsp. arvense</i>         | Adm.                   | Venezuela   |
| 2  | PI 117910 | <i>P.s. subsp. sativum</i>         | Q3                     | Brazil      |
| 3  | PI 140297 | <i>P.s. subsp. sativum</i>         | Adm.                   | Iran        |
| 4  | PI 142442 | <i>P.s. subsp. arvense</i>         | Adm.                   | Peru        |
| 5  | PI 142774 | <i>P.s. subsp. jomardii</i>        | Adm.                   | Mexico      |
| 6  | PI 142776 | <i>P.s. subsp. arvense</i>         | Adm.                   | Guatemala   |
| 7  | PI 142776 | <i>P.s. subsp. arvense</i>         | Adm.                   | Guatemala   |
| 8  | PI 143483 | <i>P.s. subsp. sativum</i>         | Adm.                   | Iran        |
| 9  | PI 143484 | <i>P.s. subsp. jomardii</i>        | Adm.                   | Iran        |
| 10 | PI 143486 | <i>P.s. subsp. arvense</i>         | Adm.                   | Iran        |
| 11 | PI 153351 | <i>P.s. subsp. arvense</i>         | Adm.                   | Ecuador     |
| 12 | PI 162568 | <i>P.s. subsp. sativum</i>         | Q3                     | Argentina   |
| 13 | PI 162692 | <i>P.s. subsp. jomardii</i>        | Adm.                   | Argentina   |
| 14 | PI 162693 | <i>P.s. subsp. arvense</i>         | Adm.                   | Argentina   |
| 15 | PI 162693 | <i>P.s. subsp. arvense</i>         | Adm.                   | Argentina   |
| 16 | PI 162910 | <i>P.s. subsp. sativum</i>         | Q3                     | Paraguay    |
| 17 | PI 164568 | <i>P.s. subsp. arvense</i>         | Q4                     | India       |
| 18 | PI 166082 | <i>P.s. subsp. humile</i>          | Q6                     | India       |
| 19 | PI 195405 | <i>P.s. subsp. arvense</i>         | Adm.                   | Guatemala   |
| 20 | PI 203065 | <i>P.s. subsp. jomardii</i>        | Adm.                   | Finland     |
| 21 | PI 204305 | <i>P.s. subsp. sativum</i>         | Adm.                   | Australia   |
| 22 | PI 204667 | <i>P.s. subsp. sativum</i>         | Q3                     | Netherland  |
| 23 | PI 220175 | <i>P.s. subsp. humile</i>          | Q6                     | Afghanistan |
| 24 | PI 220673 | <i>P.s. subsp. arvense</i>         | Adm.                   | Afghanistan |
| 25 | PI 222069 | <i>P.s. subsp. humile</i>          | Q6                     | Afghanistan |
| 26 | PI 234262 | <i>P.s. subsp. sativum</i>         | Adm.                   | USA         |
| 27 | PI 254625 | <i>P.s. subsp. jomardii</i>        | Adm.                   | Finland     |
| 28 | PI 254626 | <i>P.s. subsp. jomardii</i>        | Adm.                   | Australia   |
| 29 | PI 261678 | <i>P.s. subsp. jomardii</i>        | Adm.                   | Netherland  |
| 30 | PI 262189 | <i>P.s. subsp. arvense</i>         | Adm.                   | Costa Rica  |
| 31 | PI 266069 | <i>P.s. subsp. sativum</i>         | Adm.                   | Sweden      |
| 32 | PI 269760 | <i>P. sativum</i> "Indian ecotype" | Adm.                   | UK          |
| 33 | PI 269763 | <i>P.s. subsp. jomardii</i>        | Q2                     | UK          |
| 34 | PI 269786 | <i>P.s. subsp. sativum</i>         | Adm.                   | UK          |
| 35 | PI 272143 | <i>P.s. subsp. jomardii</i>        | Adm.                   | Germany     |
| 36 | PI 272151 | <i>P.s. subsp. arvense</i>         | Adm.                   | Germany     |
| 37 | PI 272153 | <i>P.s. subsp. jomardii</i>        | Q2                     | Germany     |
| 38 | PI 272156 | <i>P.s. subsp. jomardii</i>        | Adm.                   | Peru        |
| 39 | PI 280621 | <i>P.s. subsp. sativum</i>         | Q3                     | USSR        |
| 40 | PI 280623 | <i>P.s. subsp. jomardii</i>        | Adm.                   | Poland      |
| 41 | PI 306592 | <i>P.s. subsp. jomardii</i>        | Q2                     | Hungary     |

|     |           |                                    |      |             |
|-----|-----------|------------------------------------|------|-------------|
| 42  | PI 312136 | <i>P.s. subsp. arvense</i>         | Adm. | Guatemala   |
| 43  | PI 319373 | <i>P.s. subsp. jomardii</i>        | Adm. | Mexico      |
| 44  | PI 326194 | <i>P.s. subsp. jomardii</i>        | Adm. | Mexico      |
| 45  | PI 343326 | <i>P. sativum</i> "Indian ecotype" | Q5   | USA         |
| 46  | PI 343329 | <i>P.s. subsp. sativum</i>         | Adm. | USA         |
| 47  | PI 343935 | <i>P.s. subsp. arvense</i>         | Adm. | Ethiopia    |
| 48  | PI 343962 | <i>P.s. subsp. arvense</i>         | Adm. | Turkey      |
| 49  | PI 343965 | <i>P.s. subsp. arvense</i>         | Adm. | Turkey      |
| 50  | PI 343965 | <i>P.s. subsp. jomardii</i>        | Adm. | Turkey      |
| 51  | PI 343969 | <i>P.s. subsp. sativum</i>         | Q3   | Turkey      |
| 52  | PI 343981 | <i>P.s. subsp. sativum</i>         | Q3   | Turkey      |
| 53  | PI 343984 | <i>P.s. subsp. arvense</i>         | Adm. | Turkey      |
| 54  | PI 343993 | <i>P.s. subsp. jomardii</i>        | Adm. | Turkey      |
| 55  | PI 347282 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 56  | PI 347316 | <i>P.s. subsp. arvense</i>         | Q4   | India       |
| 57  | PI 347317 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 58  | PI 347319 | <i>P.s. subsp. arvense</i>         | Q4   | India       |
| 59  | PI 347321 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 60  | PI 347323 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 61  | PI 347326 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 62  | PI 347328 | <i>P.s. subsp. arvense</i>         | Adm. | India       |
| 63  | PI 347330 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 64  | PI 347332 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 65  | PI 347333 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 66  | PI 347334 | <i>P. sativum</i> "Indian ecotype" | Adm. | India       |
| 67  | PI 347335 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 68  | PI 347336 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 69  | PI 347338 | <i>P.s. subsp. arvense</i>         | Adm. | India       |
| 70  | PI 347342 | <i>P.s. subsp. arvense</i>         | Q4   | India       |
| 71  | PI 347343 | <i>P.s. subsp. arvense</i>         | Adm. | India       |
| 72  | PI 343332 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 73  | PI 343333 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 74  | PI 347356 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 75  | PI 347357 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 76  | PI 347359 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 77  | PI 347366 | <i>P.s. subsp. arvense</i>         | Q4   | India       |
| 78  | PI 347367 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 79  | PI 347370 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 80  | PI 347372 | <i>P.s. subsp. arvense</i>         | Q4   | India       |
| 81  | PI 347373 | <i>P.s. subsp. arvense</i>         | Q4   | India       |
| 82  | PI 347374 | <i>P.s. subsp. arvense</i>         | Q4   | India       |
| 83  | PI 347375 | <i>P.s. subsp. arvense</i>         | Q4   | India       |
| 84  | PI 347383 | <i>P.s. subsp. arvense</i>         | Q4   | India       |
| 85  | PI 347385 | <i>P. sativum</i> "Indian ecotype" | Q5   | India       |
| 86  | PI 347388 | <i>P.s. subsp. arvense</i>         | Q4   | India       |
| 87  | PI 347389 | <i>P.s. subsp. arvense</i>         | Adm. | India       |
| 88  | PI 347401 | <i>P. sativum</i> "Indian ecotype" | Adm. | India       |
| 89  | PI 347471 | <i>P.s. subsp. sativum</i>         | Adm. | India       |
| 90  | PI 358642 | <i>P.s. subsp. sativum</i>         | Q3   | Ethiopia    |
| 91  | PI 379612 | <i>P.s. subsp. jomardii</i>        | Adm. | Sweden      |
| 92  | PI 385981 | <i>P.s. subsp. sativum</i>         | Q3   | Kenya       |
| 93  | PI 399129 | <i>P.s. subsp. sativum</i>         | Q3   | Germany     |
| 94  | PI 494079 | <i>P.s. subsp. sativum</i>         | Adm. | Chile       |
| 95  | PI 560065 | <i>P. fulvum</i>                   | Q1   | Israel      |
| 96  | PI 560067 | <i>P. fulvum</i>                   | Q1   | Israel      |
| 97  | PI 595933 | <i>P. fulvum</i>                   | Q1   | Australia   |
| 98  | PI 595945 | <i>P. fulvum</i>                   | Q1   | Jordan      |
| 99  | PI 595947 | <i>P. fulvum</i>                   | Q1   | Australia   |
| 100 | JI 85     | <i>P.s. subsp. humile</i>          | Q6   | Afghanistan |
| 101 | JI 156    | <i>P.s. subsp. jomardii</i>        | Q2   | Sudan       |
| 102 | JI 156    | <i>P.s. subsp. jomardii</i>        | Q2   | Sudan       |
| 103 | JI 262    | <i>P.s. subsp. elatius</i>         | Q1   | Turkey      |
| 104 | JI 263    | <i>P.s. subsp. jomardii</i>        | Adm. | Unknown     |
| 105 | JI 228    | <i>P.s. subsp. arvense</i>         | Adm. | Bolivia     |

|     |           |                                    |      |             |
|-----|-----------|------------------------------------|------|-------------|
| 106 | JI 209    | <i>P.s. subsp. jomardii</i>        | Adm. | India       |
| 107 | JI 209    | <i>P.s. subsp. jomardii</i>        | Adm. | India       |
| 108 | JI 207    | <i>P.s. subsp. jomardii</i>        | Adm. | Russia      |
| 109 | JI 224    | <i>P. fulvum</i>                   | Q1   | Israel      |
| 110 | JI 196    | <i>P.s. subsp. humile</i>          | Adm. | Georgia     |
| 111 | JI 190    | <i>P.s. subsp. jomardii</i>        | Q2   | Sudan       |
| 112 | JI 189    | <i>P.s. subsp. jomardii</i>        | Q2   | Sudan       |
| 113 | JI 185    | <i>P.s. subsp. jomardii</i>        | Q2   | Sudan       |
| 114 | JI 267    | <i>P.s. subsp. jomardii</i>        | Q2   | Greece      |
| 115 | JI 268    | <i>P.s. subsp. jomardii</i>        | Adm. | Crete       |
| 116 | JI 275    | <i>P.s. subsp. arvense</i>         | Adm. | Crete       |
| 117 | JI 280    | <i>P.s. subsp. jomardii</i>        | Adm. | Albania     |
| 118 | JI 288    | <i>P.s. subsp. arvense</i>         | Adm. | Greece      |
| 119 | JI 502    | <i>P.s. subsp. sativum</i>         | Q3   | Unknown     |
| 120 | JI 701    | <i>P.s. subsp. arvense</i>         | Adm. | Italy       |
| 121 | JI 1030   | <i>P.s. subsp. arvense</i>         | Adm. | Iran        |
| 122 | JI 1057   | <i>P.s. subsp. sativum</i>         | Q3   | Colombia    |
| 123 | JI 1089   | <i>P.s. subsp. jomardii</i>        | Adm. | Turkey      |
| 124 | JI 1107   | <i>P.s. subsp. humile</i>          | Q6   | Nepal       |
| 125 | JI 1213   | <i>P.s. subsp. sativum</i>         | Q3   | Unknown     |
| 126 | JI 1345   | <i>P.s. subsp. jomardii</i>        | Adm. | Mongolia    |
| 127 | JI 1346   | <i>P.s. subsp. humile</i>          | Q6   | Mongolia    |
| 128 | JI 2263   | <i>P.s. subsp. jomardii</i>        | Adm. | Unknown     |
| 129 | JI 2265   | <i>P.s. subsp. jomardii</i>        | Adm. | Albania     |
| 130 | JI 2356   | <i>P.s. subsp. arvense</i>         | Adm. | Nepal       |
| 131 | JI 2385   | <i>P. abyssinicum</i>              | Q1   | Yemen       |
| 132 | JI 2387   | <i>P.s. subsp. arvense</i>         | Adm. | Ethiopia    |
| 133 | JI 2545   | <i>P.s. subsp. humile</i>          | Q6   | Pakistan    |
| 134 | BGE001004 | <i>P.s. subsp. jomardii</i>        | Adm. | Spain       |
| 135 | BGE001034 | <i>P.s. subsp. sativum</i>         | Q3   | Spain       |
| 136 | BGE001121 | <i>P.s. subsp. sativum</i>         | Q3   | Spain       |
| 137 | BGE001121 | <i>P.s. subsp. sativum</i>         | Q3   | Spain       |
| 138 | BGE001662 | <i>P.s. subsp. jomardii</i>        | Adm. | Spain       |
| 139 | BGE002168 | <i>P.s. subsp. jomardii</i>        | Adm. | Spain       |
| 140 | BGE002168 | <i>P.s. subsp. jomardii</i>        | Adm. | Spain       |
| 141 | BGE003315 | <i>P.s. subsp. arvense</i>         | Adm. | Spain       |
| 142 | BGE004710 | <i>P. sativum</i> "Indian ecotype" | Adm. | Portugal    |
| 143 | BGE004713 | <i>P.s. subsp. jomardii</i>        | Adm. | Portugal    |
| 144 | BGE004958 | <i>P.s. subsp. jomardii</i>        | Adm. | Portugal    |
| 145 | BGE006125 | <i>P.s. subsp. arvense</i>         | Adm. | Portugal    |
| 146 | BGE006126 | <i>P.s. subsp. sativum</i>         | Adm. | Portugal    |
| 147 | BGE019594 | <i>P.s. subsp. arvense</i>         | Adm. | Spain       |
| 148 | BGE022159 | <i>P.s. subsp. jomardii</i>        | Adm. | Spain       |
| 149 | BGE020326 | <i>P.s. subsp. arvense</i>         | Adm. | Spain       |
| 150 | BGE023256 | <i>P.s. subsp. jomardii</i>        | Adm. | Spain       |
| 151 | BGE025263 | <i>P.s. subsp. sativum</i>         | Adm. | Spain       |
| 152 | BGE025267 | <i>P.s. subsp. jomardii</i>        | Adm. | Spain       |
| 153 | BGE025270 | <i>P.s. subsp. jomardii</i>        | Adm. | Spain       |
| 154 | BGE026428 | <i>P.s. subsp. sativum</i>         | Q3   | Spain       |
| 155 | BGE026429 | <i>P.s. subsp. arvense</i>         | Adm. | Spain       |
| 156 | CGN16690  | <i>P.s. subsp. jomardii</i>        | Adm. | Italy       |
| 157 | CGN03277  | <i>P.s. subsp. humile</i>          | Q6   | Pakistan    |
| 158 | CGN13253  | <i>P.s. subsp. arvense</i>         | Adm. | Ethiopia    |
| 159 | CGN16640  | <i>P.s. subsp. jomardii</i>        | Adm. | Sudan       |
| 160 | CGN16562  | <i>P.s. subsp. humile</i>          | Adm. | Mongolia    |
| 161 | CGN16571  | <i>P.s. subsp. jomardii</i>        | Q2   | Egypt       |
| 162 | CGN16581  | <i>P.s. subsp. jomardii</i>        | Adm. | Afghanistan |
| 163 | CGN16639  | <i>P.s. subsp. arvense</i>         | Adm. | Ethiopia    |
| 164 | CGN16679  | <i>P.s. subsp. jomardii</i>        | Adm. | Russia      |
| 165 | CGN16582  | <i>P.s. subsp. humile</i>          | Q6   | Nepal       |
| 166 | CGN16684  | <i>P.s. subsp. jomardii</i>        | Adm. | Greece      |
| 167 | CGN16646  | <i>P.s. subsp. humile</i>          | Adm. | Mongolia    |
| 168 | CGN16636  | <i>P. abyssinicum</i>              | Q1   | Ethiopia    |
| 169 | CGN03328  | <i>P.s. subsp. humile</i>          | Q6   | Pakistan    |

|     |             |                             |      |                |
|-----|-------------|-----------------------------|------|----------------|
| 170 | CGN03170    | <i>P.s. subsp. arvense</i>  | Q4   | Iraq           |
| 171 | CGN03190    | <i>P.s. subsp. jomardii</i> | Adm. | Turkey         |
| 172 | CGN03245    | <i>P.s. subsp. arvense</i>  | Adm. | Ethiopia       |
| 173 | CGN03165    | <i>P.s. subsp. jomardii</i> | Adm. | Turkey         |
| 174 | CGN03289    | <i>P.s. subsp. humile</i>   | Q6   | Pakistan       |
| 175 | CGN03171    | <i>P.s. subsp. jomardii</i> | Adm. | Turkey         |
| 176 | CGN03290    | <i>P.s. subsp. humile</i>   | Q6   | Pakistan       |
| 177 | CGN03305    | <i>P.s. subsp. humile</i>   | Q6   | Pakistan       |
| 178 | CGN02921    | <i>P.s. subsp. sativum</i>  | Q3   | Italy          |
| 179 | CGN03003    | <i>P.s. subsp. sativum</i>  | Q3   | France         |
| 180 | CGN03273    | <i>P.s. subsp. arvense</i>  | Adm. | Peru           |
| 181 | CGN03229    | <i>P.s. subsp. arvense</i>  | Q4   | Ethiopia       |
| 182 | PI 413686   | <i>P.s. subsp. sativum</i>  | Adm. | Hungary        |
| 183 | PI 477371   | <i>P.s. subsp. jomardii</i> | Adm. | Denmark        |
| 184 | PI 307666   | <i>P.s. subsp. jomardii</i> | Adm. | Costa Rica     |
| 185 | PI 307666   | <i>P.s. subsp. jomardii</i> | Adm. | Costa Rica     |
| 186 | PI 324693   | <i>P.s. subsp. sativum</i>  | Q3   | Hungary        |
| 187 | PI 324705   | <i>P.s. subsp. jomardii</i> | Adm. | France         |
| 188 | PI 355905   | <i>P.s. subsp. sativum</i>  | Q3   | Japan          |
| 189 | PI 241593   | <i>P.s. subsp. arvense</i>  | Adm. | China          |
| 190 | PI 273207   | <i>P.s. subsp. elatius</i>  | Q1   | Bulgaria       |
| 191 | PI 266070   | <i>P.s. subsp. jomardii</i> | Adm. | Sweden         |
| 192 | PI 198074   | <i>P.s. subsp. jomardii</i> | Adm. | Sweden         |
| 193 | PI 357292   | <i>P.s. subsp. sativum</i>  | Q3   | Serbia         |
| 194 | PI 357293   | <i>P.s. subsp. sativum</i>  | Q3   | Serbia         |
| 195 | PI 249645   | <i>P.s. subsp. arvense</i>  | Adm. | India          |
| 196 | PI 357048   | <i>P.s. subsp. humile</i>   | Q6   | India          |
| 197 | PI 357289   | <i>P.s. subsp. sativum</i>  | Q3   | Macedonia      |
| 198 | PI 253968   | <i>P.s. subsp. humile</i>   | Q6   | Afghanistan    |
| 199 | PI 103058   | <i>P.s. subsp. sativum</i>  | Adm. | China          |
| 200 | PI 180329   | <i>P.s. subsp. jomardii</i> | Q2   | India          |
| 201 | PI 184131   | <i>P.s. subsp. sativum</i>  | Q3   | Serbia         |
| 202 | PI 124478   | <i>P.s. subsp. arvense</i>  | Adm. | Pakistan       |
| 203 | PI 124479   | <i>P.s. subsp. sativum</i>  | Adm. | Pakistan       |
| 204 | PI 124479   | <i>P.s. subsp. arvense</i>  | Adm. | Pakistan       |
| 205 | JI 2480     | <i>P.s. subsp. jomardii</i> | Adm. | Peru           |
| 206 | JI 1951     | <i>P.s. subsp. arvense</i>  | Adm. | China          |
| 207 | JI 2302     | <i>P.s. subsp. sativum</i>  | Q3   | Sweden         |
| 208 | JI 1566     | <i>P.s. subsp. sativum</i>  | Q3   | Unknown        |
| 209 | PI 608038   | <i>P.s. subsp. sativum</i>  | Adm. | USA            |
| 210 | PI 613100   | <i>P.s. subsp. sativum</i>  | Adm. | USA            |
| 211 | Atc-4235-53 | <i>P.s. subsp. humile</i>   | Adm. | Australia      |
| 212 | Boreen      | <i>P.s. subsp. sativum</i>  | Q3   | Australia      |
| 213 | Danciale    | <i>P.s. subsp. jomardii</i> | Adm. | Australia      |
| 214 | Kagpa       | <i>P.s. subsp. sativum</i>  | Adm. | Australia      |
| 215 | M5          | <i>P.s. subsp. sativum</i>  | Q3   | Australia      |
| 216 | Pinocchio   | <i>P.s. subsp. sativum</i>  | Q3   | Denmark        |
| 217 | B 99-114    | <i>P.s. subsp. sativum</i>  | Q3   | Czech Republic |
| 218 | AGT 205,21  | <i>P.s. subsp. sativum</i>  | Q3   | Czech Republic |
| 219 | Morris      | <i>P.s. subsp. sativum</i>  | Q3   | Czech Republic |
| 220 | JI 1210     | <i>P.s. subsp. sativum</i>  | Q3   | France         |
| 221 | JI 1412     | <i>P.s. subsp. sativum</i>  | Q3   | Unknown        |
| 222 | JI 1559     | <i>P.s. subsp. arvense</i>  | Adm. | Mexico         |
| 223 | JI 1747     | <i>P.s. subsp. sativum</i>  | Q3   | Unknown        |
| 224 | JI 1760     | <i>P.s. subsp. sativum</i>  | Q3   | UK             |
| 225 | JI 210      | <i>P.s. subsp. sativum</i>  | Adm. | Unknown        |
| 226 | JI 252      | <i>P.s. subsp. humile</i>   | Q6   | Ethiopia       |
| 227 | JI 82       | <i>P.s. subsp. humile</i>   | Adm. | Afghanistan    |
| 228 | Messire     | <i>P.s. subsp. sativum</i>  | Q3   | France         |
| 229 | Radley      | <i>P.s. subsp. sativum</i>  | Q3   | UK             |
| 230 | Ballet      | <i>P.s. subsp. sativum</i>  | Q3   | UK             |
| 231 | W6 17515    | <i>P.s. subsp. sativum</i>  | Q3   | USA            |
| 232 | W6 17516    | <i>P.s. subsp. sativum</i>  | Q3   | USA            |
| 233 | W6 17517    | <i>P.s. subsp. sativum</i>  | Q3   | USA            |

|     |             |                             |      |             |
|-----|-------------|-----------------------------|------|-------------|
| 234 | W6 17518    | <i>P.s. subsp. sativum</i>  | Q3   | USA         |
| 235 | W6 17520    | <i>P.s. subsp. sativum</i>  | Q3   | USA         |
| 236 | KEBBY       | <i>P.s. subsp. sativum</i>  | Q3   | Netherlands |
| 237 | POLAR       | <i>P.s. subsp. sativum</i>  | Q3   | Poland      |
| 238 | W6 17519    | <i>P.s. subsp. sativum</i>  | Adm. | Unknown     |
| 239 | W6 17521    | <i>P.s. subsp. sativum</i>  | Q3   | Unknown     |
| 240 | BGE023667   | <i>P.s. subsp. jomardii</i> | Adm. | Spain       |
| 241 | BGE025727   | <i>P.s. subsp. jomardii</i> | Adm. | Spain       |
| 242 | PI 358608   | <i>P.s. subsp. arvense</i>  | Q4   | Ethiopia    |
| 243 | PI 358609   | <i>P. abyssinicum</i>       | Q1   | Ethiopia    |
| 244 | PI 173055   | <i>P.s. subsp. elatius</i>  | Adm. | Turkey      |
| 245 | PI 120617   | <i>P.s. subsp. elatius</i>  | Adm. | Turkey      |
| 246 | PI 273209   | <i>P.s. subsp. elatius</i>  | Adm. | Russia      |
| 247 | PI 344003   | <i>P.s. subsp. arvense</i>  | Adm. | Turkey      |
| 248 | PI 344005   | <i>P.s. subsp. elatius</i>  | Q1   | Greece      |
| 249 | PI 344006   | <i>P.s. subsp. elatius</i>  | Q1   | Greece      |
| 250 | PI 343976   | <i>P.s. subsp. elatius</i>  | Q1   | Turkey      |
| 251 | PI 505059   | <i>P.s. subsp. jomardii</i> | Q2   | Sudan       |
| 252 | PI 344010   | <i>P.s. subsp. elatius</i>  | Q1   | Greece      |
| 253 | PI 344011   | <i>P.s. subsp. elatius</i>  | Q1   | Greece      |
| 254 | PI 344013   | <i>P.s. subsp. elatius</i>  | Q1   | Greece      |
| 255 | PI 116056   | <i>P.s. subsp. arvense</i>  | Adm. | India       |
| 256 | PI 505127   | <i>P.s. subsp. jomardii</i> | Adm. | Albania     |
| 257 | PI 242027   | <i>P.s. subsp. jomardii</i> | Q2   | Denmark     |
| 258 | PI 269762   | <i>P.s. subsp. jomardii</i> | Q2   | UK          |
| 259 | PI 343987   | <i>P.s. subsp. sativum</i>  | Adm. | Turkey      |
| 260 | PI 505080   | <i>P.s. subsp. jomardii</i> | Adm. | Cyprus      |
| 261 | PI 505111   | <i>P.s. subsp. jomardii</i> | Adm. | Syria       |
| 262 | PI 268480   | <i>P.s. subsp. humile</i>   | Q6   | Afghanistan |
| 263 | JI 45       | <i>P.s. subsp. humile</i>   | Adm. | Georgia     |
| 264 | JI 198      | <i>P.s. subsp. arvense</i>  | Adm. | Israel      |
| 265 | JI 199      | <i>P.s. subsp. arvense</i>  | Adm. | Israel      |
| 266 | JI 225      | <i>P. abyssinicum</i>       | Q1   | Ethiopia    |
| 267 | JI 227      | <i>P. abyssinicum</i>       | Q1   | Ethiopia    |
| 268 | JI 241      | <i>P.s. subsp. humile</i>   | Q6   | Israel      |
| 269 | JI 254      | <i>P.s. subsp. elatius</i>  | Q1   | Ethiopia    |
| 270 | JI 804      | <i>P.s. subsp. humile</i>   | Adm. | Unknown     |
| 271 | JI 1398     | <i>P.s. subsp. humile</i>   | Adm. | China       |
| 272 | JI 1428     | <i>P.s. subsp. humile</i>   | Adm. | China       |
| 273 | JI 1854     | <i>P.s. subsp. humile</i>   | Q6   | Israel      |
| 274 | JI 2116     | <i>P.s. subsp. jomardii</i> | Adm. | Spain       |
| 275 | JI 2202     | <i>P. abyssinicum</i>       | Q1   | Yemen       |
| 276 | PIS 1318/91 | <i>P.s. subsp. elatius</i>  | Adm. | Unknown     |
| 277 | CGN10205    | <i>P.s. subsp. elatius</i>  | Adm. | Unknown     |
| 278 | CGN10206    | <i>P.s. subsp. elatius</i>  | Adm. | Unknown     |
| 279 | CGN10193    | <i>P.s. subsp. jomardii</i> | Adm. | Unknown     |
| 280 | IFPI 3365   | <i>P.s. subsp. arvense</i>  | Adm. | Turkey      |
| 281 | IFPI 3370   | <i>P.s. subsp. jomardii</i> | Adm. | Turkey      |
| 282 | IFPI 387    | <i>P.s. subsp. jomardii</i> | Adm. | USSR        |
| 283 | IFPI 436    | <i>P.s. subsp. jomardii</i> | Q2   | UK          |
| 284 | IFPI 2348   | <i>P.s. subsp. arvense</i>  | Q4   | Ethiopia    |
| 285 | IFPI 2350   | <i>P.s. subsp. arvense</i>  | Q4   | Ethiopia    |
| 286 | IFPI 2351   | <i>P.s. subsp. arvense</i>  | Adm. | Ethiopia    |
| 287 | IFPI 2352   | <i>P.s. subsp. arvense</i>  | Q4   | Ethiopia    |
| 288 | IFPI 2353   | <i>P.s. subsp. arvense</i>  | Adm. | Ethiopia    |
| 289 | IFPI 2354   | <i>P.s. subsp. arvense</i>  | Q4   | Ethiopia    |
| 290 | IFPI 2356   | <i>P.s. subsp. arvense</i>  | Q4   | Ethiopia    |
| 291 | IFPI 2357   | <i>P.s. subsp. arvense</i>  | Q4   | Ethiopia    |
| 292 | IFPI 2358   | <i>P.s. subsp. arvense</i>  | Adm. | Ethiopia    |
| 293 | IFPI 2360   | <i>P.s. subsp. arvense</i>  | Q4   | Ethiopia    |
| 294 | IFPI 2362   | <i>P.s. subsp. arvense</i>  | Q4   | Ethiopia    |
| 295 | IFPI 2363   | <i>P.s. subsp. arvense</i>  | Adm. | Ethiopia    |
| 296 | IFPI 2364   | <i>P.s. subsp. arvense</i>  | Q4   | Ethiopia    |
| 297 | IFPI 2365   | <i>P.s. subsp. arvense</i>  | Q4   | Ethiopia    |

|     |           |                             |      |          |
|-----|-----------|-----------------------------|------|----------|
| 298 | IFPI 2367 | <i>P.s. subsp. arvense</i>  | Adm. | Ethiopia |
| 299 | IFPI 2369 | <i>P.s. subsp. arvense</i>  | Adm. | Ethiopia |
| 300 | IFPI 2370 | <i>P.s. subsp. arvense</i>  | Adm. | Ethiopia |
| 301 | IFPI 2371 | <i>P.s. subsp. jomardii</i> | Adm. | Ethiopia |
| 302 | IFPI 2372 | <i>P.s. subsp. arvense</i>  | Q4   | Ethiopia |
| 303 | IFPI 2441 | <i>P.s. subsp. jomardii</i> | Q2   | Denmark  |
| 304 | IFPI 2495 | <i>P.s. subsp. jomardii</i> | Q2   | UK       |
| 305 | IFPI 3232 | <i>P. fulvum</i>            | Q1   | Syria    |
| 306 | IFPI 3250 | <i>P.s. subsp. jomardii</i> | Adm. | Syria    |
| 308 | IFPI 3253 | <i>P. fulvum</i>            | Q1   | Syria    |
| 309 | IFPI 3257 | <i>P. fulvum</i>            | Q1   | Syria    |
| 310 | IFPI 3260 | <i>P. fulvum</i>            | Q1   | Syria    |
| 311 | IFPI 3261 | <i>P. fulvum</i>            | Q1   | Syria    |
| 312 | IFPI 3262 | <i>P. fulvum</i>            | Q1   | Syria    |
| 313 | IFPI 3280 | <i>P.s. subsp. elatius</i>  | Q1   | Syria    |
| 314 | IFPI 3282 | <i>P.s. subsp. elatius</i>  | Q1   | Syria    |
| 315 | IFPI 3330 | <i>P.s. subsp. jomardii</i> | Q2   | Turkey   |
| 316 | IFPI 3334 | <i>P.s. subsp. elatius</i>  | Q1   | Turkey   |
| 319 |           | <i>P.s. subsp. jomardii</i> | Adm. | Unknown  |
| 320 | Jl 1006   | <i>P. fulvum</i>            | Q1   | Israel   |
| 321 | Cartouche | <i>P.s. subsp. sativum</i>  | Adm. | Unknown  |
| 325 | PI 273605 | <i>P.s. subsp. jomardii</i> | Adm. | Ecuador  |
| 326 | PI 505092 | <i>P.s. subsp. jomardii</i> | Adm. | Cyprus   |
| 327 | IFPI 2355 | <i>P.s. subsp. arvense</i>  | Q4   | Ethiopia |
| 328 | Jl 130    | <i>P. abyssinicum</i>       | Q1   | Ethiopia |

<sup>1</sup>Population structure according to Rispaill *et al.* 2023. The population structure was determined by STRUCTURE for K=6. Q1 to Q6 represent the six defined subpopulations within the pea collection. Accessions were assigned to specific Q if their membership percentage was greater than 60%; otherwise, they were classified as admixed (Adm.).

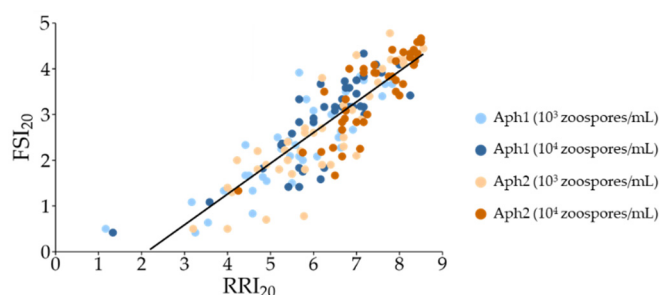


**Figure S1.** Relationship between Foliar Symptoms Index (FSI<sub>20</sub>) (y-axis) and Root Rot Index (RRI<sub>20</sub>) (x-axis) of the 40 selected accessions 20 days after the inoculation. Blue dots represent the average values of accessions inoculated with the Aph1 isolate, with light blue for the 10<sup>3</sup> zoospores/mL solution and dark blue for the 10<sup>4</sup> zoospore/mL solution. Orange dots represent the average values of accessions inoculated with the Aph2 isolate, with light orange for the 10<sup>3</sup> zoospores/mL solution and dark orange for the 10<sup>4</sup> zoospores/mL solution. The adjusted regression line is  $y = 0.67 \cdot x - 1.43$  ( $R^2=0.75$ ).

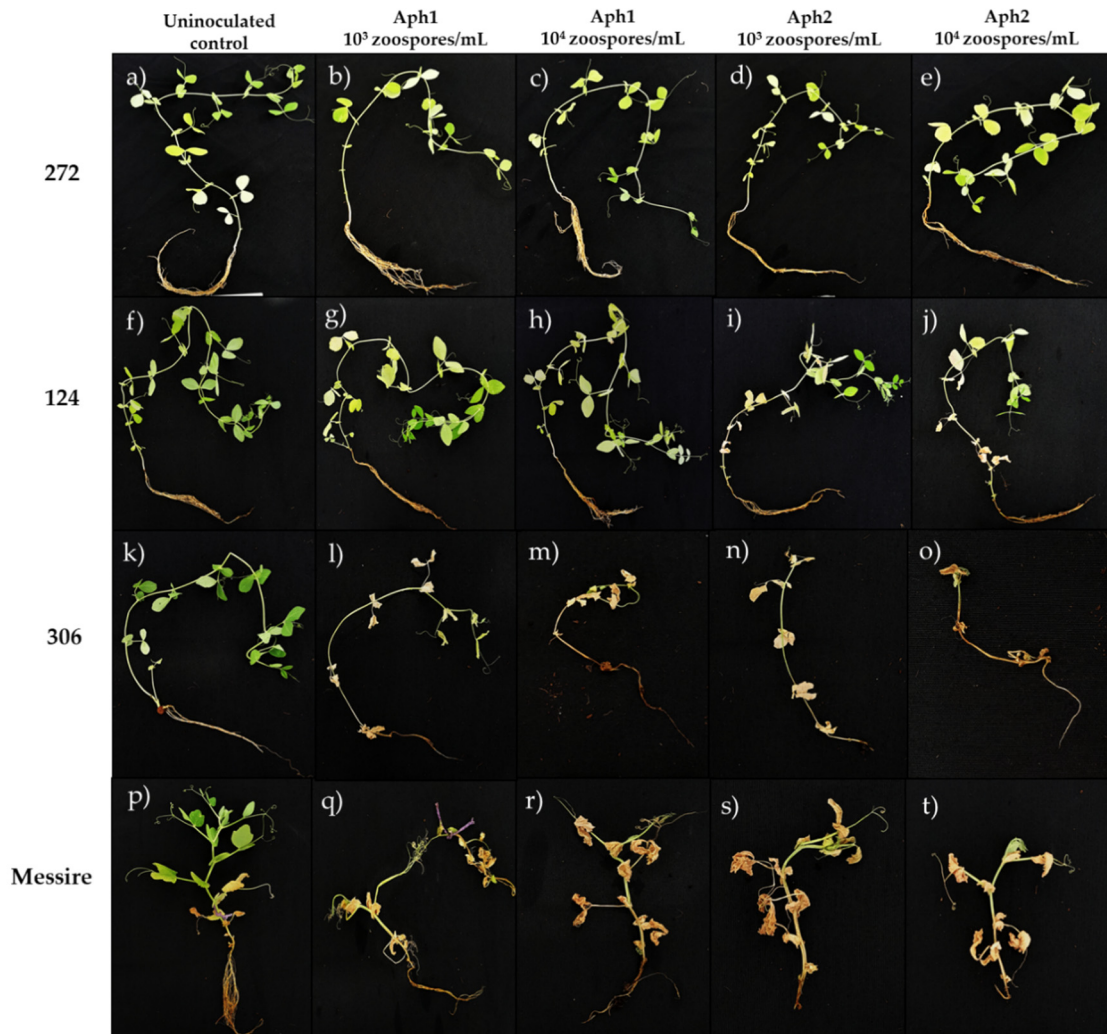


**Figure S2.** Phenotypic responses 20 days after the inoculation of various accessions (272, 124, 306 and the susceptible control Messire) with two isolates of *A. euteiches* (Aph1 and Aph2). **(a-t)** Individual accessions subjected to different concentrations of inoculum. Uninoculated plants are shown in the first column, followed by Aph1 inoculated at doses of 10<sup>3</sup> and 10<sup>4</sup> zoospores/mL in the second and third columns, respectively, and Aph2 inoculation at the same doses in the fourth and fifth columns, respectively. This figure visually demonstrates the range of genotype reactions, from resistance (272 and 124) to susceptibility (306) compared with the susceptible control (Messire), under experimental conditions.