**S1 Table: Screening of *Brassica* genotypes against dark leaf spot disease with their accession numbers and disease severity index**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Genotype | DSI ± SD | Genetic background | Genotype | DSI ± SD | Genetic background |
| EC928 | 3.6 ± 0.19 | *B. rapa* | **EC1483** | 3.3 ± 0.33 | *B. rapa* |
| EC25047 | 2.9 ± 0.19 | *B. rapa* | **EC1484** | 3.2 ± 0.33 | *B. rapa* |
| EC1333 | 9.35 ± 0.39 | *B. rapa* | **EC1485** | 5.5 ± 0.19 | *B. rapa* |
| EC1341 | 4.6 ± 0.38 | *B. rapa* | **EC1490** | 5.3 ± 0.33 | *B. rapa* |
| EC1347 | 7.0 ± 0.33 | *B. rapa* | **EC1497** | 5.5 ± 0.19 | *B. rapa* |
| EC1350 | 4.7 ± 0.33 | *B. rapa* | **EC1498** | 3.2 ± 0.19 | *B. rapa* |
| EC1354 | 4.1 ± 0.19 | *B. rapa* | **EC1501** | 3.2 ± 0.33 | *B. rapa* |
| EC1368 | 6.5 ± 0.19 | *B. rapa* | **EC1601** | 8.0 ± 0.33 | *B. rapa* |
| EC1374 | 4.2 ± 0.38 | *B. rapa* | **EC1603** | 5.0 ± 0.38 | *B. rapa* |
| EC1381 | 6.4 ± 0.51 | *B. rapa* | **EC1712** | 8.4 ± 0.19 | *B. rapa* |
| EC1388 | 2.8 ± 0.33 | *B. rapa* | **EC1714** | 7.0 ± 0.38 | *B. rapa* |
| EC1389 | 3.2 ± 0.33 | *B. rapa* | **EC25016** | 3 ± 0.33 | *B. rapa* |
| EC1418 | 5.4 ± 0.51 | *B. rapa* | **EC25017** | 4.0 ± 0.33 | *B. rapa* |
| EC1471 | 4.0 ± 0.33 | *B. rapa* | **EC25018** | 5.9 ± 0.69 | *B. rapa* |
| EC1477 | 2.4 ± 0.33 | *B. rapa* | **EC25022** | 6.4 ± 0.67 | *B. rapa* |
| EC1478 | 5.3 ± 0.33 | *B. rapa* | **EC25023** | 7.1 ± 0.69 | *B. rapa* |
| EC1479 | 6.7 ± 0.58 | *B. rapa* | **EC25030** | 5.6 ± 0.33 | *B. rapa* |
| EC1480 | 6.3 ± 0.33 | *B. rapa* | **EC25034** | 6.8 ± 0.51 | *B. rapa* |
| EC1481 | 5.0 ± 0.33 | *B. rapa* | **EC25035** | 5.7 ± 0.19 | *B. rapa* |
| EC1482 | 4.3 ± 0.33 | *B. rapa* | **EC25042** | 7.1 ± 0.51 | *B. rapa* |
| Genotype | **DSI ± SD** | **Genetic background** | **Genotype** | **DSI ± SD** | **Genetic background** |
| EC25045 | 3.4 ± 0.19 | *B. rapa* | **EC26266** | 2.7 ± 0.33 | *B. rapa* |
| EC25044 | 7.6 ± 0.51 | *B. rapa* | **EC26268** | 4.7 ± 0.58 | *B. rapa* |
| EC25045 | 6.0 ± 0.33 | *B. rapa* | **EC26269** | 6.9 ± 0.19 | *B. rapa* |
| EC25048 | 5.0 ± 0.38 | *B. rapa* | **EC26270** | 6.2 ± 0.84 | *B. rapa* |
| EC25049 | 6.0 ± 0.38 | *B. rapa* | **EC26271** | 5.9 ± 0.19 | *B. rapa* |
| EC25050 | 6.4 ± 0.51 | *B. rapa* | **EC26274** | 4.2 ± 0.33 | *B. rapa* |
| EC25055 | 3.0 ± 0.33 | *B. rapa* | **EC1494** | 2.1 ± 0.19 | *B. napus* |
| EC25065 | 5.2 ± 0.38 | *B. rapa* | **EC1500** | 3.2 ± 0.19 | *B. napus* |
| EC25081 | 5.1 ± 0.38 | *B. rapa* | **EC1692** | 3.0 ± 0.33 | *B. napus* |
| EC26156 | 4.8 ± 0.19 | *B. rapa* | **EC1716** | 3.0 ± 0.19 | *B. napus* |
| EC26157 | 3.6 ± 0.38 | *B. rapa* | **EC24171** | 5.6 ± 0.38 | *B. napus* |
| EC26158 | 5.3 ± 0.33 | *B. rapa* | **EC24174** | 6.6 ± 0.19 | *B. napus* |
| EC26159 | 4.3 ± 0.33 | *B. rapa* | **EC24175** | 6.0 ± 0.33 | *B. napus* |
| EC26161 | 4.7 ± 0.51 | *B. rapa* | **EC24176** | 4.0 ± 0.33 | *B. napus* |
| EC26166 | 3.7 ± 0.33 | *B. rapa* | **EC24177** | 4.9 ± 0.51 | *B. napus* |
| EC26171 | 6.9 ± 0.19 | *B. rapa* | **EC24178** | 3.7 ± 0.33 | *B. napus* |
| EC26172 | 4.7 ± 0.33 | *B. rapa* | **EC24179** | 6.2 ± 0.38 | *B. napus* |
| EC26173 | 8.1 ± 0.51 | *B. rapa* | **EC24180** | 3.2 ± 0.51 | *B. napus* |
| EC26174 | 6.6 ± 0.19 | *B. rapa* | **EC24181** | 5.0 ± 0.33 | *B. napus* |
| EC26177 | 4.8 ± 0.88 | *B. rapa* | **EC24182** | 3.4 ± 0.69 | *B. napus* |
| EC26263 | 7.3 ± 0.00 | *B. rapa* | **EC24183** | 7.4 ± 0.69 | *B. napus* |
| Genotype | **DI ± SD** | **Genetic background** | **Genotype** | **DI ± SD** | **Genetic background** |
| EC24184 | 5.7 ± 0.58 | *B. napus* | **EC1495** | 4.4 ± 0.33 | *B. juncea* |
| EC24185 | 7.3 ± 0.33 | *B. napus* | **EC1496** | 5.6 ± 0.58 | *B. juncea* |
| EC24186 | 2.6 ± 0.19 | *B. napus* | **EC1662** | 3.1 ± 0.69 | *B. juncea* |
| EC24187 | 4.5 ± 0.33 | *B. napus* | **EC1703** | 4.6 ± 0.33 | *B. juncea* |
| EC24189 | 7.6 ± 0.38 | *B. napus* | **EC1709** | 2.8 ± 0.19 | *B. juncea* |
| EC24190 | 6.7 ± 0.33 | *B. napus* | **EC1710** | 3.5 ± 0.19 | *B. juncea* |
| EC24191 | 3.8 ± 0.38 | *B. napus* | **EC1713** | 4.7 ± 0.69 | *B. juncea* |
| EC24192 | 3.4 ± 0.38 | *B. napus* | **EC19507** | 5.8 ± 0.38 | *B. juncea* |
| EC24193 | 4.7 ± 0.19 | *B. napus* | **EC19520** | 4.4 ± 0.33 | *B. juncea* |
| EC24194 | 2.3 ± 0.33 | *B. napus* | **EC24047** | 4.6 ± 0.19 | *B. juncea* |
| EC24195 | 6.0 ± 0.33 | *B. napus* | **EC24048** | 3.5 ± 0.33 | *B. juncea* |
| EC24196 | 3.8 ± 0.38 | *B. napus* | **EC24049** | 2.3 ± 0.33 | *B. juncea* |
| EC1060 | 4.8 ± 0.33 | *B. juncea* | **EC24050** | 3.2 ± 0.33 | *B. juncea* |
| EC1327 | 2.4 ± 0.19 | *B. juncea* | **EC24051** | 5.6 ± 0.19 | *B. juncea* |
| EC1342 | 5.0 ± 0.33 | *B. juncea* | **EC24052** | 2.1 ± 0.19 | *B. juncea* |
| EC1358 | 4.6 ± 0.33 | *B. juncea* | **EC24053** | 3.2 ± 0.33 | *B. juncea* |
| EC1359 | 6.0 ± 0.19 | *B. juncea* | **EC24054** | 2.6 ± 0.38 | *B. juncea* |
| EC1412 | 2.5 ± 0.19 | *B. juncea* | **EC24055** | 3.1 ± 0.19 | *B. juncea* |
| Genotype | **DI ± SD** | **Genetic background** | **Genotype** | **DI ± SD** | **Genetic background** |
| EC24056 | 5.6 ± 0.19 | *B. juncea* | **EC25925** | 2.8 ± 0.51 | *B. carinata* |
| EC24057 | 8.0 ± 0.88 | *B. juncea* | **EC25926** | 2.0 ± 0.33 | *B. carinata* |
| EC24058 | 3.2 ± 0.33 | *B. juncea* | **EC25928** | 4.4 ± 0.19 | *B. carinata* |
| EC24059 | 5.7 ± 0.00 | *B. juncea* | **EC25929** | 2.7 ± 0.33 | *B. carinata* |
| EC24060 | 3.8 ± 0.19 | *B. juncea* | **EC25930** | 3.6 ± 0.19 | *B. carinata* |
| EC24061 | 2.6 ± 0.51 | *B. juncea* | **EC25931** | 3.4 ± 0.19 | *B. carinata* |
| EC24062 | 6.0 ± 0.58 | *B. juncea* | **EC25933** | 2.4 ± 0.19 | *B. carinata* |
| EC24063 | 2.9 ± 0.19 | *B. juncea* | **EC25935** | 2.6 ± 0.19 | *B. carinata* |
| EC24065 | 5.3 ± 0.33 | *B. juncea* | **EC25936** | 2.4 ± 0.19 | *B. carinata* |
| EC24066 | 6.3 ± 0.33 | *B. juncea* | **EC25937** | 2.8 ± 0.19 | *B. carinata* |
| EC24067 | 2.0 ± 0.33 | *B. juncea* | **EC25938** | 4.3 ± 0.19 | *B. carinata* |
| EC24068 | 8.4 ± 0.51 | *B. juncea* | **EC25939** | 6.3 ± 0.58 | *B. carinata* |
| EC24069 | 8.8 ± 0.19 | *B. juncea* | **EC25940** | 4.3 ± 0.67 | *B. carinata* |
| EC24070 | 4.4 ± 0.38 | *B. juncea* | **EC25941** | 3.0 ± 0.33 | *B. carinata* |
| EC24071 | 6.4 ± 0.19 | *B. juncea* | **EC25943** | 2.0 ± 0.33 | *B. carinata* |
| EC24072 | 7.8 ± 0.69 | *B. juncea* | **EC25944** | 2.7 ± 0.33 | *B. carinata* |