Table S1: The wild species germplasm of *Oryza* screened for drought tolerance under field conditions

|  |  |  |  |
| --- | --- | --- | --- |
| Species | Chromosome no. | Genome | No. of accessions screened |
| ***Oryza sativa* complex** | | | |
| *O. nivara* | 24 | AA | 592 |
| *O. rufipogon* | 24 | AA | 523 |
| *O. barthii* | 24 | AA | 78 |
| *O.longistaminata* | 24 | AA | 126 |
| *O. meridionalis* | 24 | AA | 32 |
| *O. glumaepatula* | 24 | AA | 18 |
| ***Oryza officinalis* complex** | | | |
| *O.officinalis* | 24 | CC | 110 |
| *O. punctata* | 24, 48 | BB, BBCC | 59 |
| *O. minuta* | 48 | BBCC | 32 |
| *O. latifolia* | 48 | CCDD | 31 |
| *O. rhizomatis* | 24 | CC | 5 |
| *O. australiensis* | 24 | EE | 18 |
| *O. brachyantha* | 24 | FF | 6 |
|  |  | Total | 1630 |

Table S2: Scoring of drought tolerance based on symptoms of leaf rolling and drying

|  |  |  |  |
| --- | --- | --- | --- |
| Scores | Reaction | Leaf rolling | Leaf drying |
| 0 | Resistant | no symptoms | leaves healthy |
| 1 | moderately resistant | leaves start to fold | slight tip drying |
| 2 | Susceptible | leaves margin touching (O- shaped) | more than 2/3 of all leaves fully dried |
| 3 | highly susceptible | leaves tightly rolled | all leaves severely dried |

Table S3: Identified drought tolerant accessions with leaf tip drying and leaf rolling score

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Species** | **Origin** | **Leaf tip Drying** | | | | **Leaf rolling score** | |
| 15 DAS | 25 DAS | 35 DAS | 15 DAS | 25 DAS | 35 DAS |
| 1 | *O. rufipogon* (CR 100372A) | India | 0 | 1 | 1 | 0 | 0 | 1 |
| 2 | *O. rufipogon* (CR 100465B) | India | 0 | 1 | 1 | 0 | 0 | 1 |
| 3 | *O. rufipogon* (CR 100470) | India | 0 | 1 | 1 | 0 | 0 | 1 |
| 4 | *O. rufipogon* (CR 100019) | India | 0 | 1 | 1 | 0 | 0 | 1 |
| 5 | *O. rufipogon* (CR 100035) | India | 0 | 1 | 1 | 0 | 0 | 1 |
| 6 | *O. rufipogon* (CR 100035A) | India | 0 | 1 | 1 | 0 | 1 | 1 |
| 7 | *O. rufipogon* (CR 100196) | India | 0 | 1 | 1 | 0 | 1 | 1 |
| 8 | *O. rufipogon* (CR 100446) | India | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | *O. rufipogon* (CR 100375) | India | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | *O. rufipogon* (IRGC 81802) | Indonesia | 0 | 0 | 1 | 0 | 0 | 0 |
| 11 | *O. rufipogon* (IRGC 86549) | Cambodia | 0 | 1 | 1 | 0 | 1 | 1 |
| 12 | *O. rufipogon* (IRGC 86659) | Cambodia | 0 | 0 | 1 | 0 | 0 | 1 |
| 13 | *O. rufipogon* (IRGC 89013) | Cambodia | 0 | 0 | 1 | 0 | 0 | 1 |
| 14 | *O. rufipogon* (IRGC 89230) | Cambodia | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | *O. rufipogon* (IRGC 93036) | Cambodia | 0 | 1 | 1 | 0 | 1 | 1 |
| 16 | *O. rufipogon* (IRGC 93058) | Cambodia | 0 | 1 | 1 | 0 | 1 | 1 |
| 17 | *O. rufipogon* (IRGC 93075) | Cambodia | 0 | 0 | 1 | 0 | 0 | 1 |
| 18 | *O. rufipogon* (IRGC 93077) | Cambodia | 0 | 0 | 1 | 0 | 0 | 1 |
| 19 | *O. rufipogon* (IRGC 93108) | Cambodia | 0 | 0 | 1 | 0 | 0 | 1 |
| 20 | *O. rufipogon* (IRGC 89006) | Cambodia | 0 | 0 | 1 | 0 | 0 | 0 |
| 21 | *O. rufipogon* (IRGC 89012) | Cambodia | 0 | 0 | 1 | 0 | 0 | 0 |
| 22 | *O. rufipogon* (IRGC 110406) | Cambodia | 0 | 0 | 1 | 0 | 0 | 1 |
| 23 | *O. rufipogon* (IRGC 105240) | Thailand | 0 | 1 | 1 | 0 | 1 | 1 |
| 24 | *O. rufipogon* (IRGC 105850) | Thailand | 0 | 0 | 1 | 0 | 0 | 1 |
| 25 | *O. rufipogon* (IRGC 105861) | Thailand | 0 | 1 | 1 | 0 | 1 | 1 |
| 26 | *O. rufipogon* (IRGC 105926) | Thailand | 0 | 0 | 1 | 0 | 0 | 1 |
| 27 | *O. rufipogon* (IRGC 106421) | Vietnam | 0 | 0 | 1 | 0 | 1 | 1 |
| 28 | *O. rufipogon* (IRGC 106424) | Vietnam | 0 | 1 | 1 | 0 | 1 | 1 |
| 29 | *O. rufipogon* (IRGC 106433) | Vietnam | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | *O. rufipogon* (IRGC106437) | Vietnam | 0 | 1 | 1 | 0 | 1 | 1 |
| 31 | *O. rufipogon* (IRGC 106422) | Vietnam | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 | *O. rufipogon* (IRGC 113652) | Vietnam | 0 | 0 | 0 | 0 | 0 | 0 |
| 33 | *O. longistaminata* (IRGC 105200) | Ethopia | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 | *O. longistaminata* (IRGC 83826A) | Mali | 0 | 0 | 0 | 0 | 0 | 0 |
| 35 | *O. longistaminata* (IRGC 92619A) | Mali | 0 | 0 | 0 | 0 | 0 | 0 |
| 36 | *O. longistaminata* (IRGC 92656A) | Mali | 0 | 0 | 0 | 0 | 0 | 0 |
| 37 | *O. officinalis* (IRGC101152) | Brunei | 0 | 0 | 0 | 0 | 0 | 0 |
| 38 | *O. latifolia* (IRGC80769) | France | 0 | 0 | 0 | 0 | 0 | 0 |

HR= highly resistant, R= resistant, MR= moderately resistant. \*IRGC and #CR denoted the International Rice Genetic Consortium, Phillipines and Central Rice Research Institute, Odisha, India.