**Supplementary Materials**

Table S4. Plot scores of first two principal components and their respective 17 morphological variables on 130 accessions of weedy, cultivated, and wild *Oryza* species.

|  |  |
| --- | --- |
| Variables | Principal components (proportion of explained variance)a |
| 1st (23.27%) | 2nd (22.86%) |
| Hull color | -0.211 | **-0.504** |
| Pericarp color | **0.526** | -0.365 |
| Grain length class | 0.404 | **-0.626** |
| Shape class | 0.345 | -0.527 |
| 100-grain weight | -0.428 | **0.624** |
| Awn presence | **0.691** | 0.633 |
| Awn distribution | **0.757** | 0.552 |
| Awn length | **0.745** | 0.585 |
| Awn color | **0.607** | 0.571 |
| Panicle shattering | **0.505** | -0.502 |
| Culm habit | **0.520** | -0.418 |
| Panicle type | 0.239 | -0.127 |
| Flag leaf attitude (late observation) | 0.325 | **-0.582** |
| Leaf blade attitude | 0.320 | **-0.434** |
| Culm number | 0.483 | -0.144 |
| Panicle length | -0.188 | -0.278 |
| Panicle number | 0.370 | -0.011 |

aValues in bold correspond for each variable to the factor for which the squared cosine is the largest