**Table S4** Distribution of Q-value of 140 accessions in two groups by model-based cluster method.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group** | **Number of cultivars in each group** | **Amount of accessions (%)** | | | |
| **Q<0.6** | **Q≥0.6** | **Q≥0.8** | **Q≥0.9** |
| I | 94 | 4 (4.3%) | 90 (95.7%) | 71 (75.5%) | 55 (58.5%) |
| II | 46 | 4 (8.7%) | 42 (91.3%) | 37 (80.4%) | 28 (60.8%) |
| Total | 140 | 8 (5.7%) | 132 (94.3%) | 108 (77.1%) | 83 (59.3%) |