**Supporting Information**

**Table S1.** Sequencing depth distribution for the leaf samples.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cultivar** | **Inbred** | **Inbred** | **Inbred** | **Inbred** | **Hybrid** | **Hybrid** | **Hybrid** | **Hybrid** |
| **Treatment** | **R** | **C** | **R+T** | **T** | **R** | **C** | **R+T** | **T** |
| **>0-0.5X** | 17,053 | 18,371 | 18,489 | 17,783 | 18,271 | 18,783 | 16,820 | 18,206 |
| **0.5-5X** | 5,357 | 4,385 | 3,875 | 4,801 | 4,381 | 3,689 | 5,498 | 4,367 |
| **5X-50X** | 424 | 290 | 261 | 321 | 277 | 256 | 413 | 298 |
| **50X-500X** | 30 | 14 | 16 | 16 | 14 | 14 | 26 | 13 |
| **>500X** | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| **Total higher than 0.5X** | 5,812 | 4,689 | 4,152 | 5,138 | 4,672 | 3,959 | 5,938 | 4,678 |
| **Percentage higher than 0.5X** | 25.4% | 20.3% | 18.3% | 22.4% | 20.4% | 17.4% | 26.1% | 20.4% |
| **Total expressed genes** | 22,865 | 23,060 | 22,641 | 22,921 | 22,943 | 22,742 | 22,758 | 22,884 |