

Supplementary Material

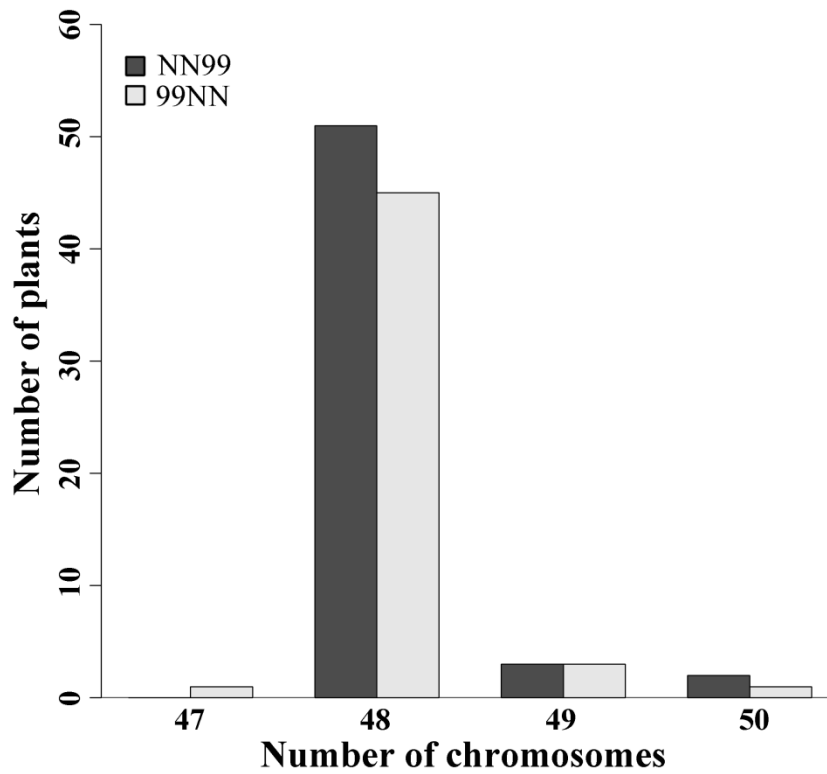


FIG. S1. Summary of chromosome number distribution in the reciprocal tetraploids derived from the corresponding reciprocal F1 hybrids of the two subspecies of rice, *japonica* (cv. Nipponbare) and *indica* (cv. 93-11)

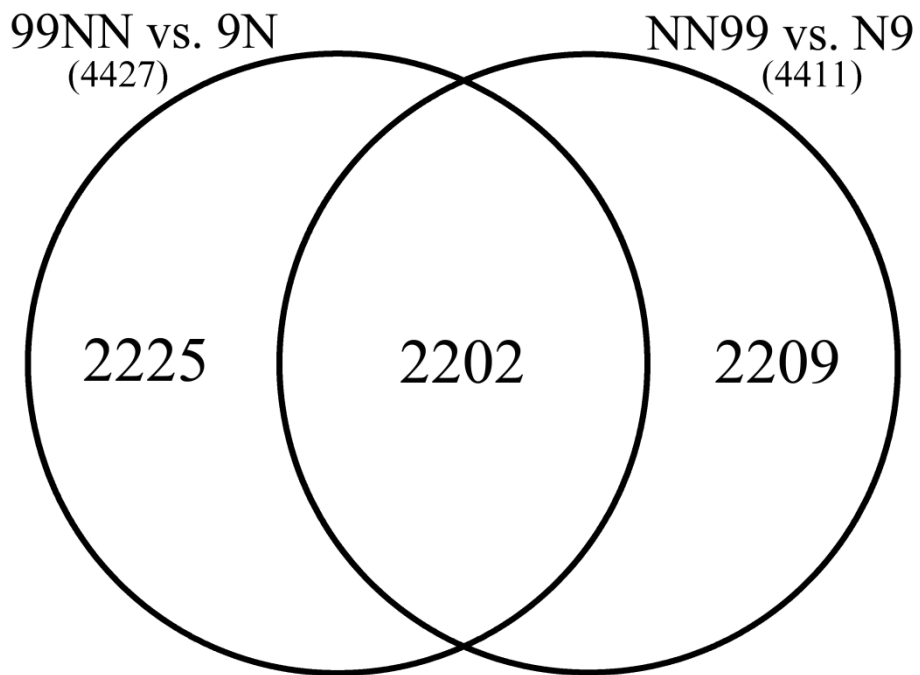


FIG. S2. Venn-diagram of differentially regulated genes through a direct comparison of homoeologous expression between hybrids and their corresponding tetraploids of both cross directions.

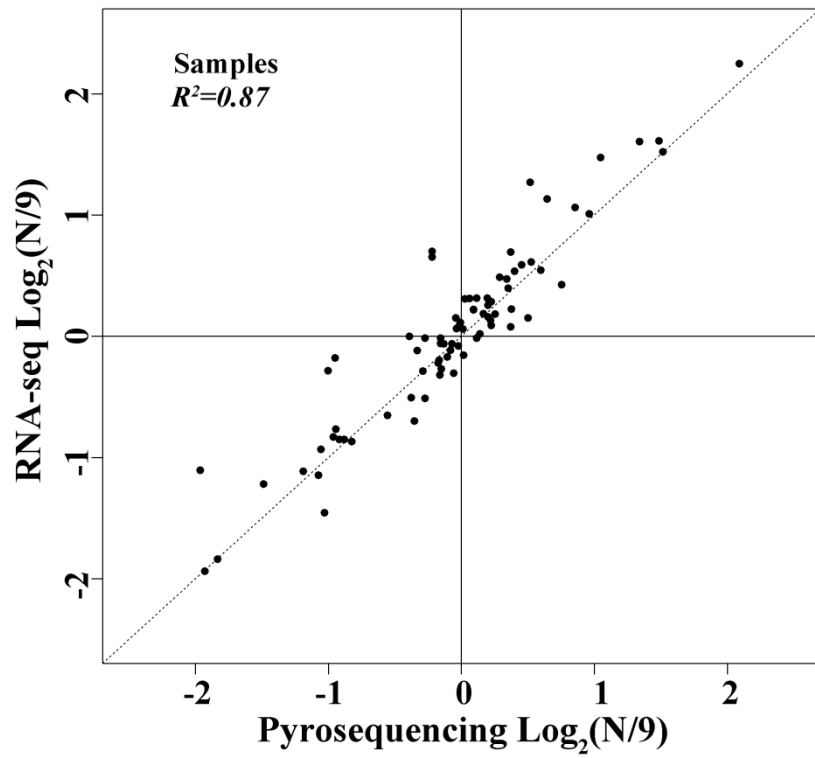


FIG. S3. Correlation between data of pyrosequencing and RNA-seq on parental homoeolog expression ratios for 20 representative genes

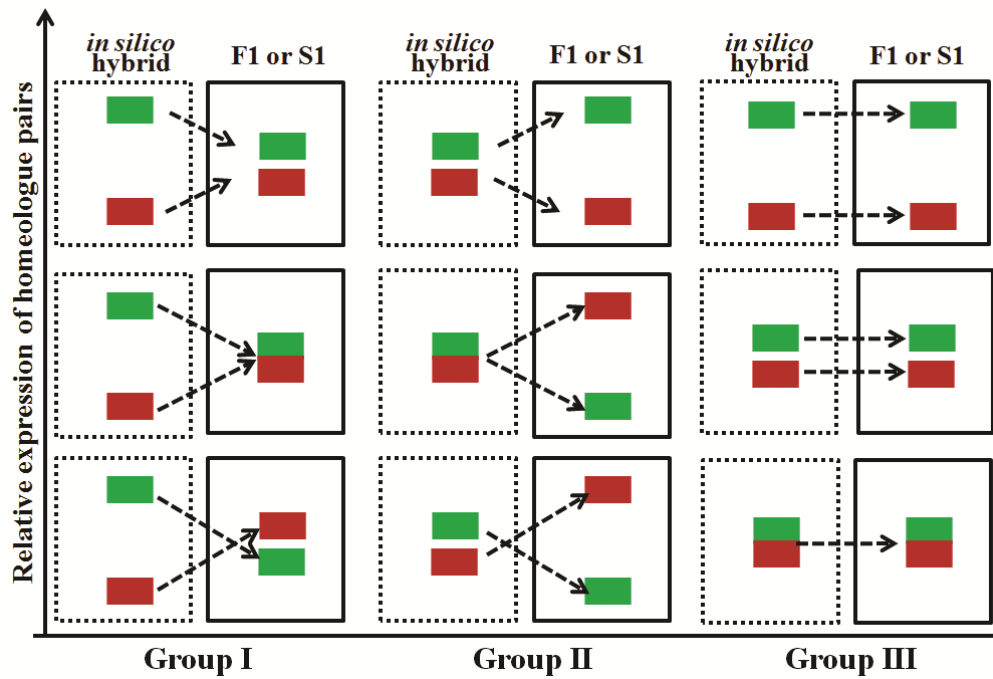


FIG. S4. Diagrammatic illustration of the three regulatory groups of gene expression, convergent-regulation (Group I), divergent regulation (Group II) and conserved-regulation (Group III) that may occur in the F1 hybrids and tetraploids compared with the *in silico* hybrid.