

**Additional file 6.** Summary of the number of changes in the metabolic profile in rice under different nitrate treatments according to Welch's two sample t-test comparisons.

Tissue		Treatment		
		HN / LN	LN-HN / LN	HN-LN / HN
Leaves	Total number (p<0.05)	212	30	153
	Biochemicals (↑ ↓)	109   103	13   17	106   47
Roots	Total number (p<0.05)	136	51	31
	Biochemicals (↑ ↓)	88   48	5   46	21   10