

SUPPORTING TABLES

Table S1 Network densities for the experimental data sets and different r^2 thresholds.

	Rice	Wheat	<i>Arabidopsis</i>
$r^2 > 0.75$	$7.7 \cdot 10^{-3}$ [$7.0 \cdot 10^{-3}, 8.3 \cdot 10^{-3}$]	$2.8 \cdot 10^{-4}$	$1.4 \cdot 10^{-5}$ [$1.1 \cdot 10^{-5}, 1.5 \cdot 10^{-5}$]
$r^2 > 0.50$	$5.4 \cdot 10^{-2}$ [$4.5 \cdot 10^{-2}, 6.1 \cdot 10^{-2}$]	$1.5 \cdot 10^{-3}$	$5.3 \cdot 10^{-5}$ [$3.4 \cdot 10^{-5}, 8.2 \cdot 10^{-5}$]
$r^2 > 0.25$	$2.0 \cdot 10^{-1}$ [$1.8 \cdot 10^{-1}, 2.1 \cdot 10^{-1}$]	$9.1 \cdot 10^{-3}$	$2.9 \cdot 10^{-4}$ [$2.2 \cdot 10^{-5}, 3.9 \cdot 10^{-4}$]

Average network densities (ratio of observed to potential edges) and range for three LD thresholds measured as r^2 (based on 100 samples of 2,000 randomly selected SNPs for the rice and *Arabidopsis* data sets and all 2,056 SNP markers for wheat).