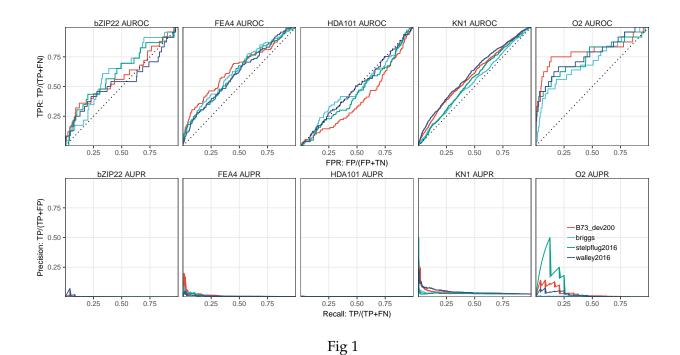
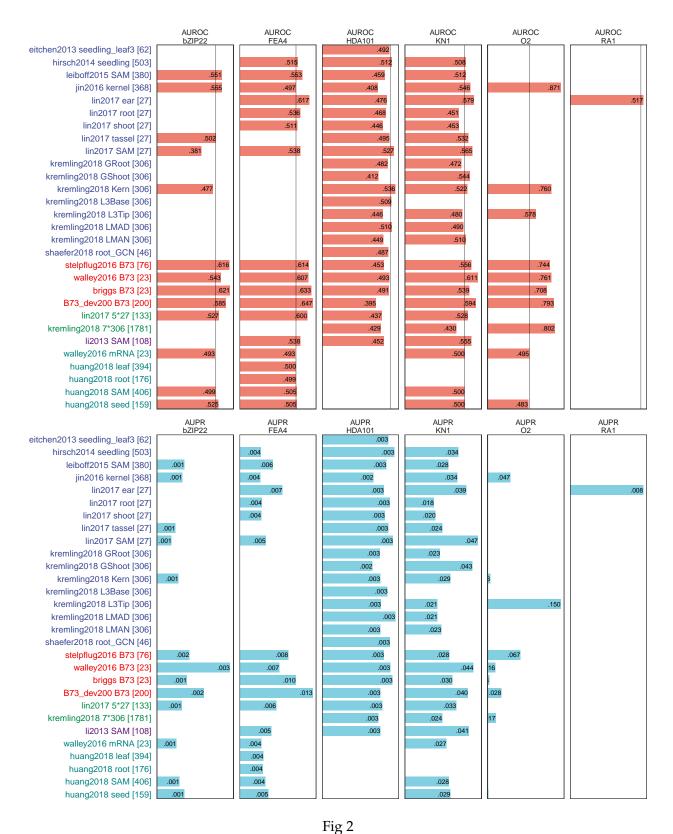
Table X. GRNs built in this study.

nid	mid	study	tag	note	net_type	sample_size
n13a n13b	me13a me13b	li2013 liu2013		SAM leaf	ril timeseries	108 13
n13c n14a n14b	me13c me14a me14b	eitchen2013 hirsch2014 li2014		seedling_leaf3 seedling endsperm	genotype genotype timeseries	62 503 7
n15a n15b n16a n16b n16c	me15a me15b me16a me16b me16c	leiboff2015 yu2015 jin2016 stelpflug2016 walley2016		SAM leaf kernel B73 B73	genotype timeseries genotype tissue tissue	380 9 368 76 23
n17a n17a_1 n17a_2 n17a_3 n17a_4	me17a me17a me17a me17a me17a	lin2017 lin2017 lin2017 lin2017 lin2017	ear root shoot tassel	5*27 ear root shoot tassel	tissue*genotype genotype genotype genotype genotype	133 27 27 27 27 27
n17a_5 n18a n18a_1 n18a_2 n18a_3	me17a me18a me18a me18a me18a	lin2017 kremling2018 kremling2018 kremling2018 kremling2018	SAM GRoot GShoot Kern	SAM 7*306 GRoot GShoot Kern	genotype tissue*genotype genotype genotype genotype	27 1,781 306 306 306
n18a_4 n18a_5 n18a_6 n18a_7 n18d	me18a me18a me18a me18d	kremling2018 kremling2018 kremling2018 kremling2018 shaefer2018	L3Base L3Tip LMAD LMAN root	L3Base L3Tip LMAD LMAN root_GCN	genotype genotype genotype genotype genotype	306 306 306 306 46
n99a_1 n99a_2 n99b_1 n99b_2 n99b_3	me99a me99a me99b me99b	kaeppler2018 kaeppler2018 briggs briggs briggs	inbred hybrid B73 Mo17 BxM	inbred hybrid B73 Mo17 BxM	genotype genotype tissue tissue tissue	170 299 23 23 23
np16_1 np18_1 np18_2 np18_3 np18_4		walley2016 huang2018 huang2018 huang2018 huang2018	mRNA leaf root SAM seed	mRNA leaf root SAM seed	liftover liftover liftover liftover	23 394 176 406 159
nc01 nc02 nc03 nt01	mec01 mec02 mec03 met01	B73_dev41 B73_dev64 B73_dev200 leaf_22t		B73 B73 B73 B73	tissue tissue tissue timeseries	41 64 200 22



Area under receiver operating curves (AUROC) and area under precision-recall curve (AUPR) for GRNs built using different input datasets evaluated using experimentally (Chip-seq, mutant & wildtype RNA-Seq) determined transcription factor (TF) targets.



Barplot showing AUROC and AUPRs for lin2017 tissue-specific and pooled GRNs.

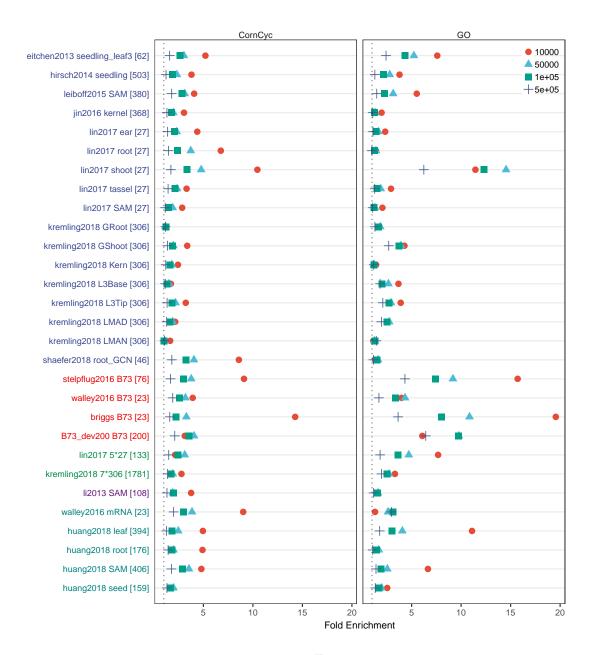
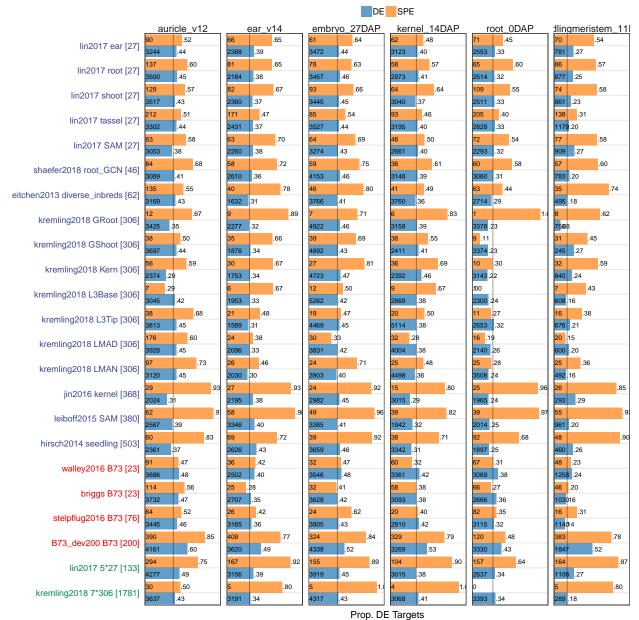


Fig 3

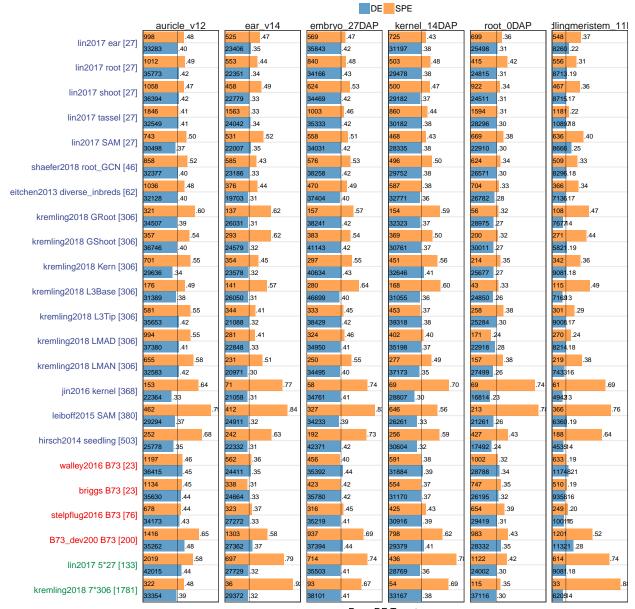
Fold enrichment of GO and CornCyc categories for built networks (different sizes of top edges taken).



1 Top. DE Targe

Fig 4a

Enrichment of DE genes (using Briggs dataset) in predicted TF targets made by different GRNs. Only the top 10,000 strongest edges were taken from each GRN.



Prop. DE Targets

Fig 4b

Enrichment of DE genes (using Briggs dataset) in predicted TF targets made by different GRNs. Only the top 100,000 strongest edges were taken from each GRN.

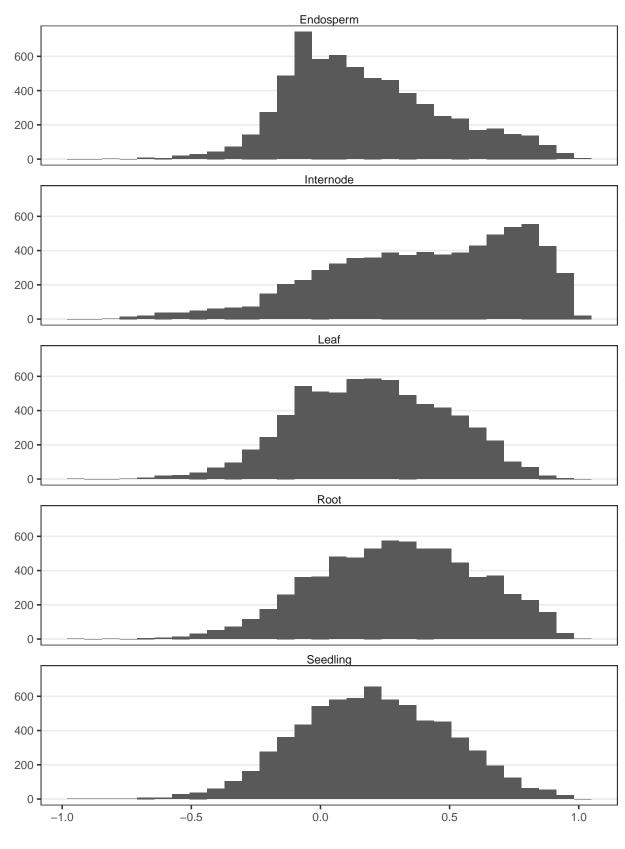


Fig X

Evaluation of GRN predictions using the bioMAP data containing $\sim\!200$ genotypes (34 inbreds + 200 hybrids) in five tissues. The (Pearson) correlations between regulators and targets (as predicted by each GRN) were evaluated using the bioMAP expression matrix in each tissue, and shown as a boxplot for the top 10,000, 100,000 or 1,000,000 strongest edges in each network.