

Supplemental Material to:

Eduardo González-Grandío and Pilar Cubas*

Identification of gene functions associated to active and dormant buds in Arabidopsis

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Supplemental Table I

Expression data from Tatematsu et al. 2005 and Reddy et al. 2013 were retrieved from Gene Omnibus database (http://www.ncbi.nlm.nih.gov/geo/) and sorted by FDR. The 1000 most statistically significant up- and down-regulated genes with fold change <-1.1 or >1.1 were used for the analysis (Sheet 1: Gene lists). Activation and dormancy genes of the three experiments were compared pair-wise to obtain common elements lists (Sheet 2: Pairwise comparisons). Genes common for the three experiments were further analyzed using ATTED-II⁹, Mapman¹⁷, Genevestigator_ENREF_12¹¹ and TAIR (http://www.arabidopsis.org/) gene description database (Sheets 3 and 4: Bud activation and bud dormancy genes). Genes in bold are *BRC1*-dependent genes according to Gonzalez-Grandío et al. (2013).

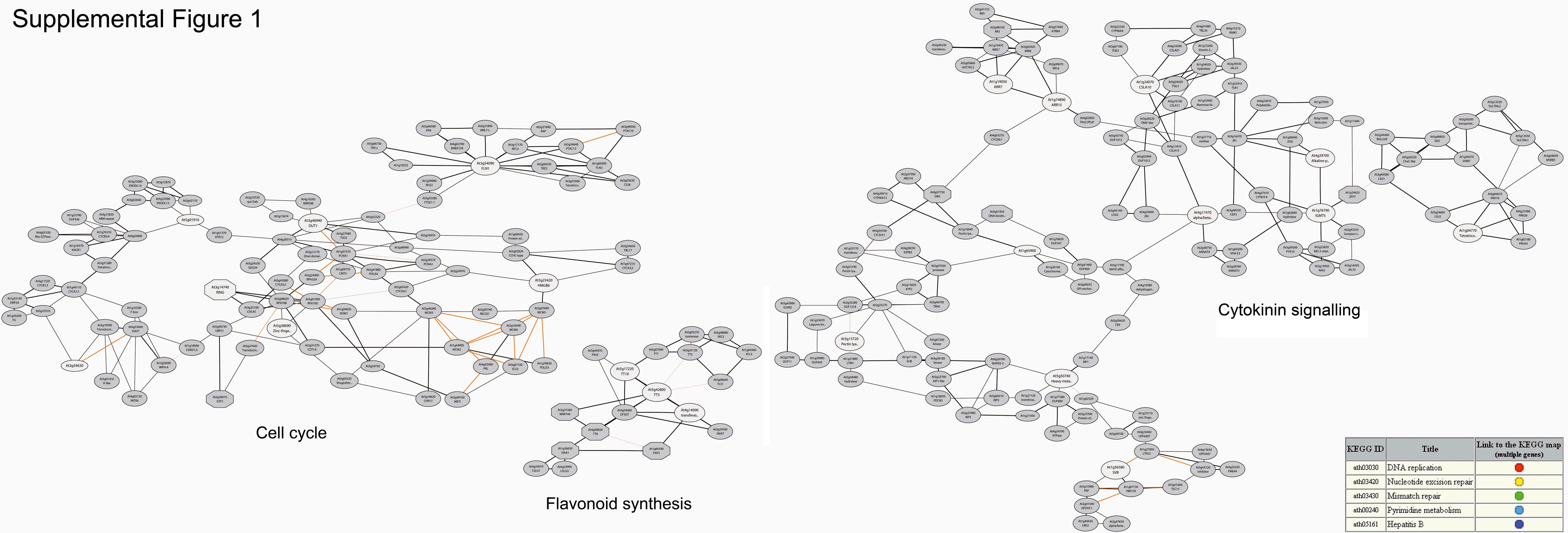
Supplemental Figure 1. *Bud activation* **genes co-regulation networks.** Networks of *bud activation* co-regulated genes from Supplemental Table I were represented using Network Drawer (ATTED-II⁹). Additional co-regulated genes were included. From left to right, cell cycle-related, flavonoid synthesis-related and cytokinin signaling networks. The same applies to the next supplemental figures.

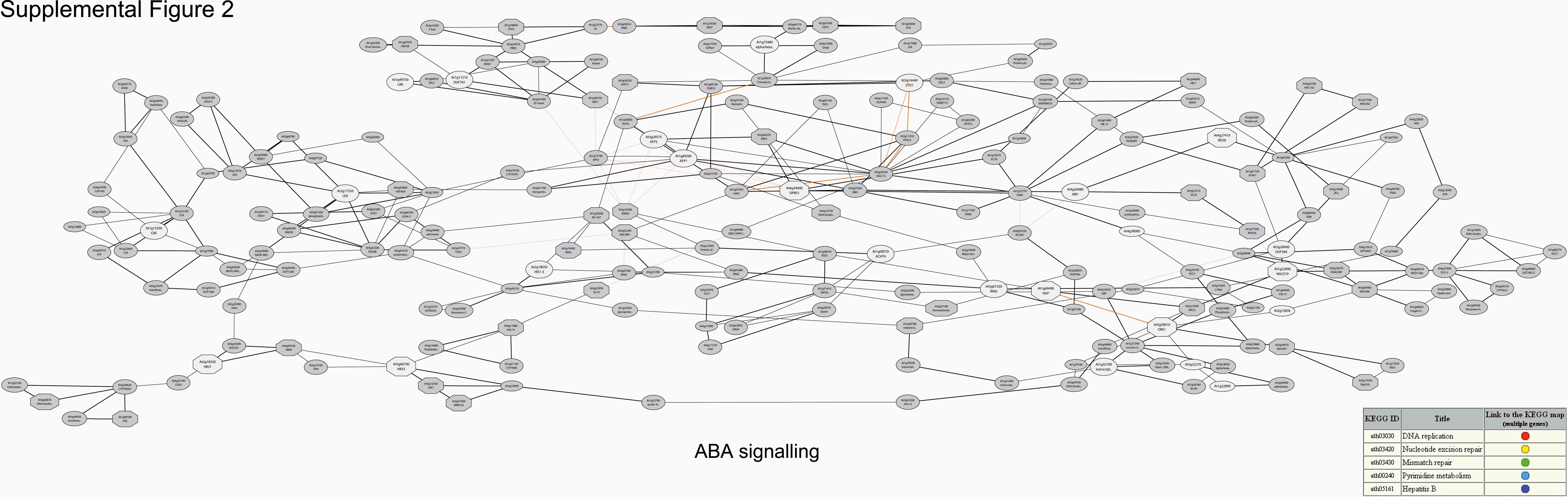
Supplemental Figure 2. *Bud dormancy* genes: ABA signaling co-regulation networks.

Supplemental Figure 3. *Bud dormancy* genes: auxin and ethylene signaling gene network.

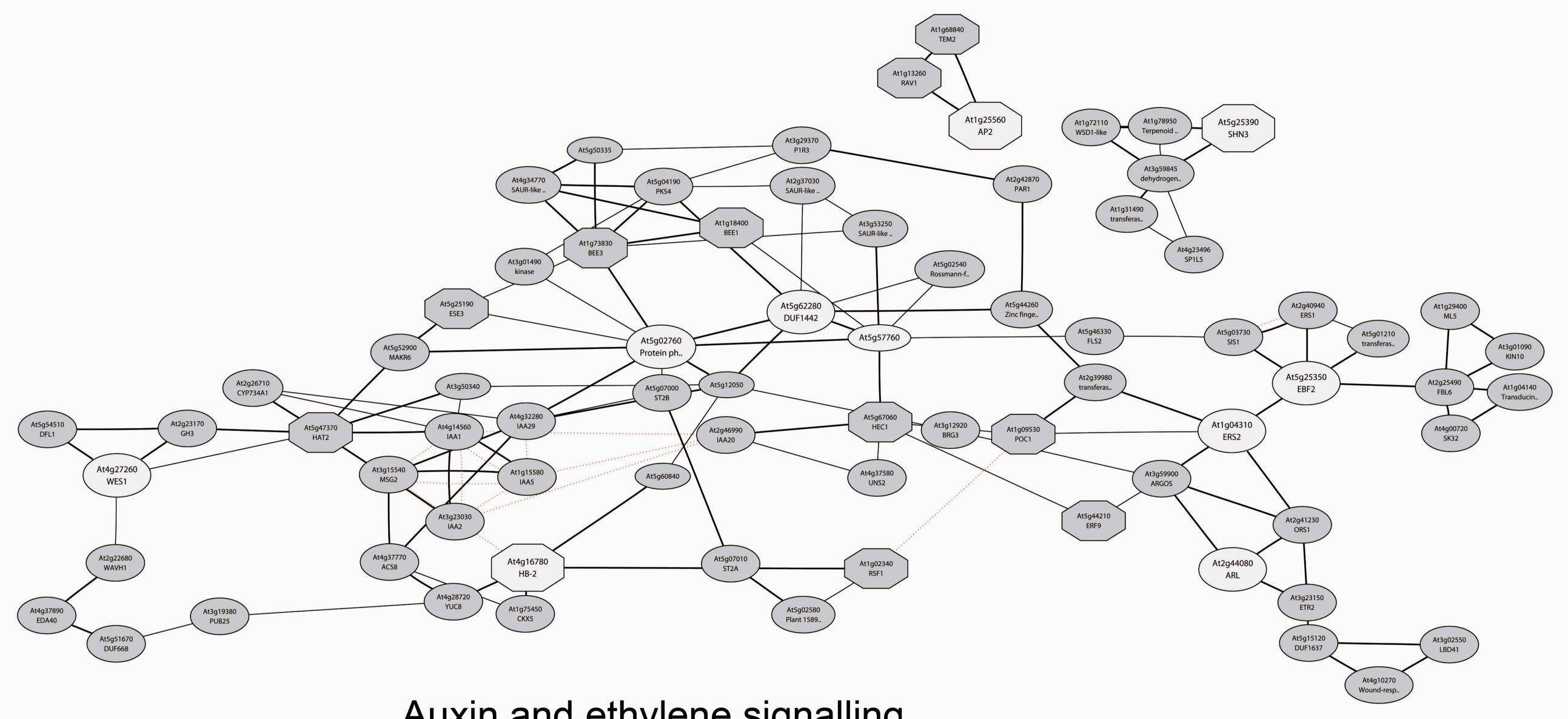
Supplemental Figure 4. *Bud dormancy* genes: dark-induced, sugar repressed gene network.

Supplemental Figure 5. *Bud dormancy* genes: autophagy and protein degradation gene network.





Supplemental Figure 3



Auxin and ethylene signalling

KEGG ID	Title	Link to the KEGG map (multiple genes)
ath03030	DNA replication	
ath03420	Nucleotide excision repair	0
ath03430	Mismatch repair	
ath00240	Pyrimidine metabolism	
ath05161	Hepatitis B	

