

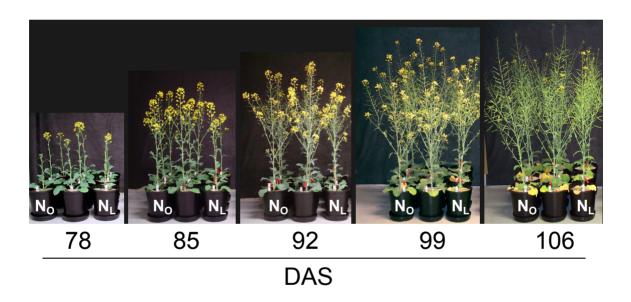
## Supplementary Material

## Divergent N deficiency-dependent senescence and transcriptome response in developmentally old and young *Brassica napus* leaves

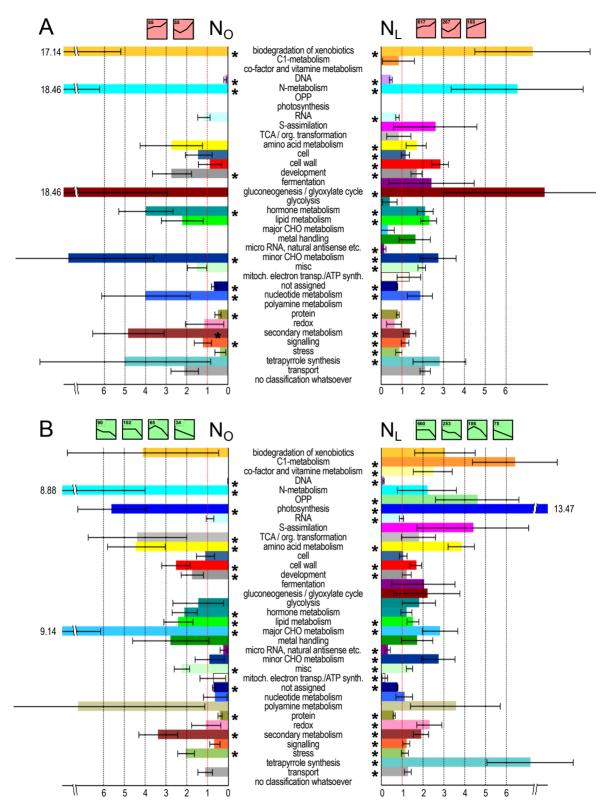
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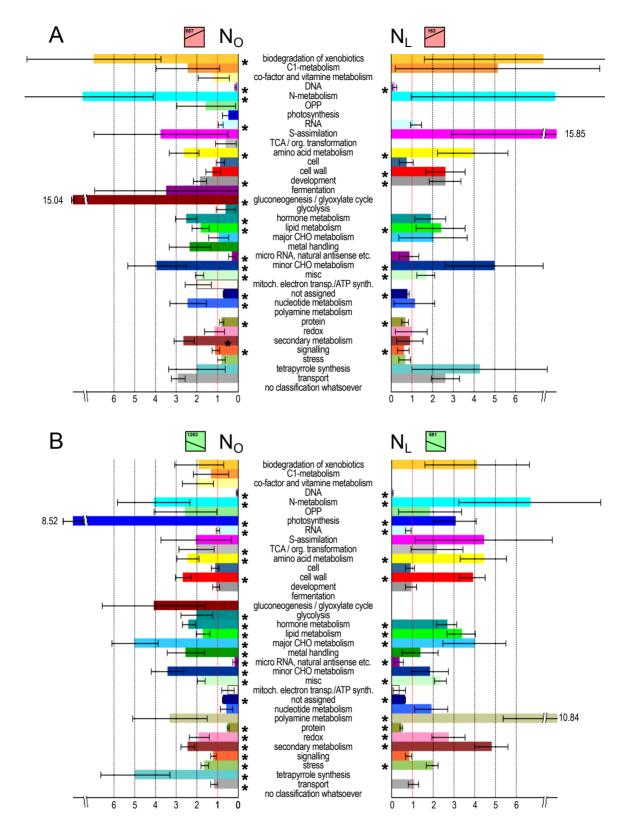
## **Supplementary Figures**



Supplementary Figure 1. Phenotype of *B. napus* cv. Mozart plants grown under optimal or low N supply. In each panel the three plants on the left were grown under optimal N supply  $(N_O)$  and the three plants on the right were grown under low N supply  $(N_L)$ . The three plants in the center (grown under elevated N supply) were not used in this study.



Supplementary Figure 2. MapMan functional classification of temporally up- and downregulated genes in leaf #4. Genes in the (A) 'downregulated' and (B) 'upregulated' STEM cluster of  $N_O$  and  $N_L$  leaves #4 were classified according to their putative assignment to MapMan metabolic pathways using the BAR Classification SuperViewer Tool. Bars show the normed frequency (NF) of genes in functional categories  $\pm$  SD for 100 bootstraps. Normed frequency is the (Number in Class $_{input\_set}$ /Number Classified $_{input\_set}$ //Number Classified $_{reference\_set}$ /Number Classified $_{reference\_set}$ ). Enriched (NF > 1) or underrepresented categories (NF < 1) which are statistically significant (p-value of the hypergeometric distribution < 0.05) are marked by asterisks.



Supplementary Figure 3. MapMan functional classification of up- and downregulated genes in leaf #8. Genes in the (A) 'downregulated' and (B) 'upregulated'  $N_O$  and  $N_L$  leaves #8 were classified according to their putative assignment to MapMan metabolic pathways using the BAR Classification SuperViewer Tool. Bars show the normed frequency (NF) of genes in functional categories  $\pm$  SD for 100 bootstraps. Normed frequency is the (Number in Class<sub>input\_set</sub>/Number Classified<sub>input\_set</sub>)/(Number in Class<sub>reference\_set</sub>/Number Classified<sub>reference\_set</sub>). Enriched (NF > 1) or underrepresented categories (NF < 1) which are statistically significant (p-value of the hypergeometric distribution < 0.05) are marked by asterisks.