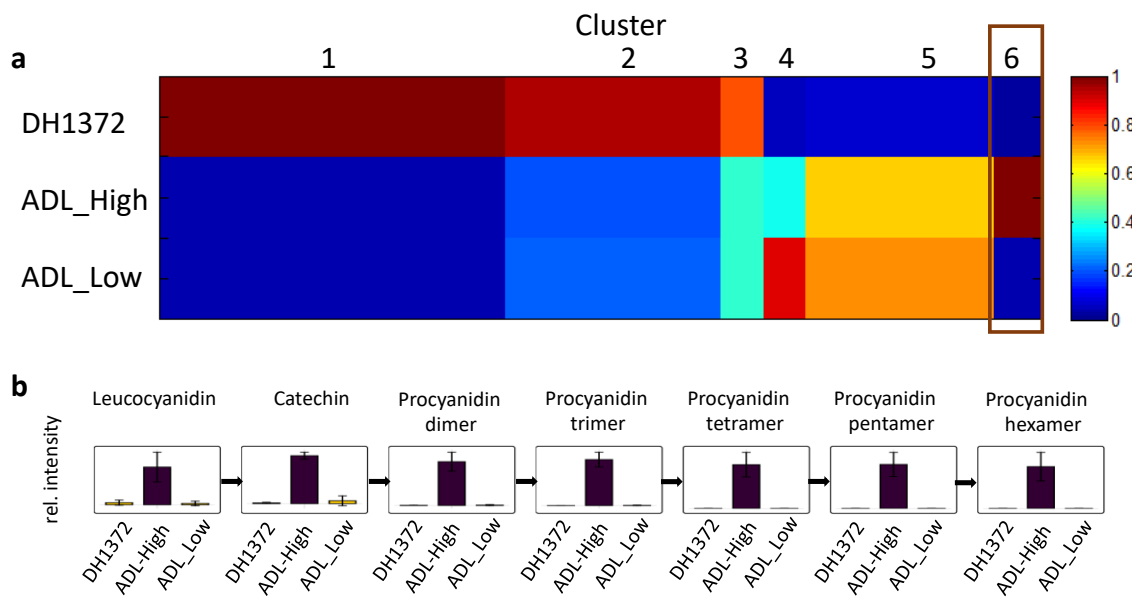




Online Resource 5: Metabolite fingerprinting of green seeds of the genotype DH1372 and DH-lines (4042 x Express 617) with either high or low ADLm content (ADL_High, ADL_Low). Samples were analyzed by a non-targeted metabolomics based on liquid chromatography coupled to high resolution mass spectrometry (LC-HR-MS). Data obtained from samples of the polar and non-polar extraction phase, ionized each in positive and negative ionization mode have been combined. (a) Intensity-based clustering by means of one-dimensional self-organizing maps of 1069 metabolite features (FDR < 0.005), that are differentially enriched in the genotypes. The heat map colors represent average intensity values according to the color map on the right-hand side. The width of each cluster is proportional to the number of features assigned to this cluster. (b) Metabolites of the procyanidin biosynthesis are strongly depleted in 4042 x Express 617 DH-lines with low ADL content as well as in the line DH1372 (represented by cluster 6). The identity of these metabolites was confirmed by LC-HR-MSMS analysis.

Inheritance of seed quality and seed germination in two doubled haploid populations of oilseed rape segregating for Acid Detergent Lignin (ADL) content. Euphytica.

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