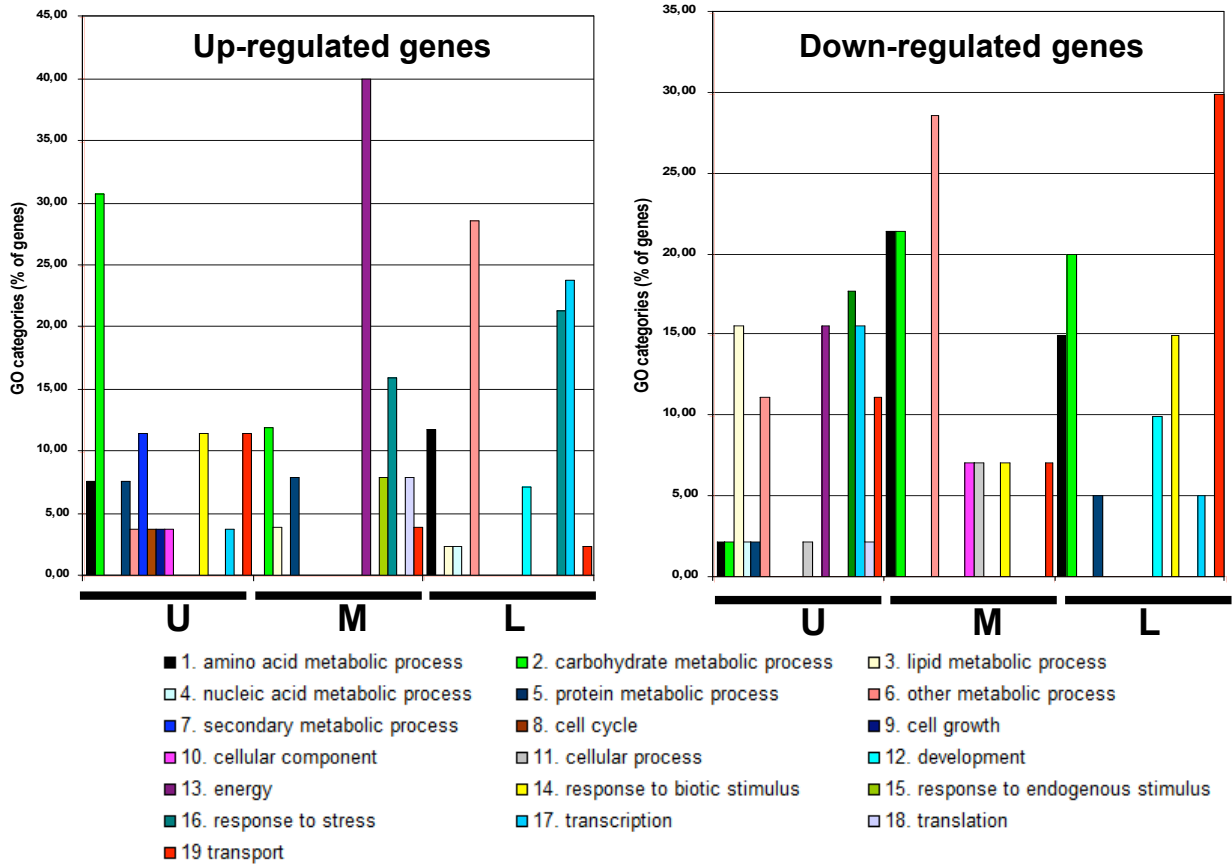
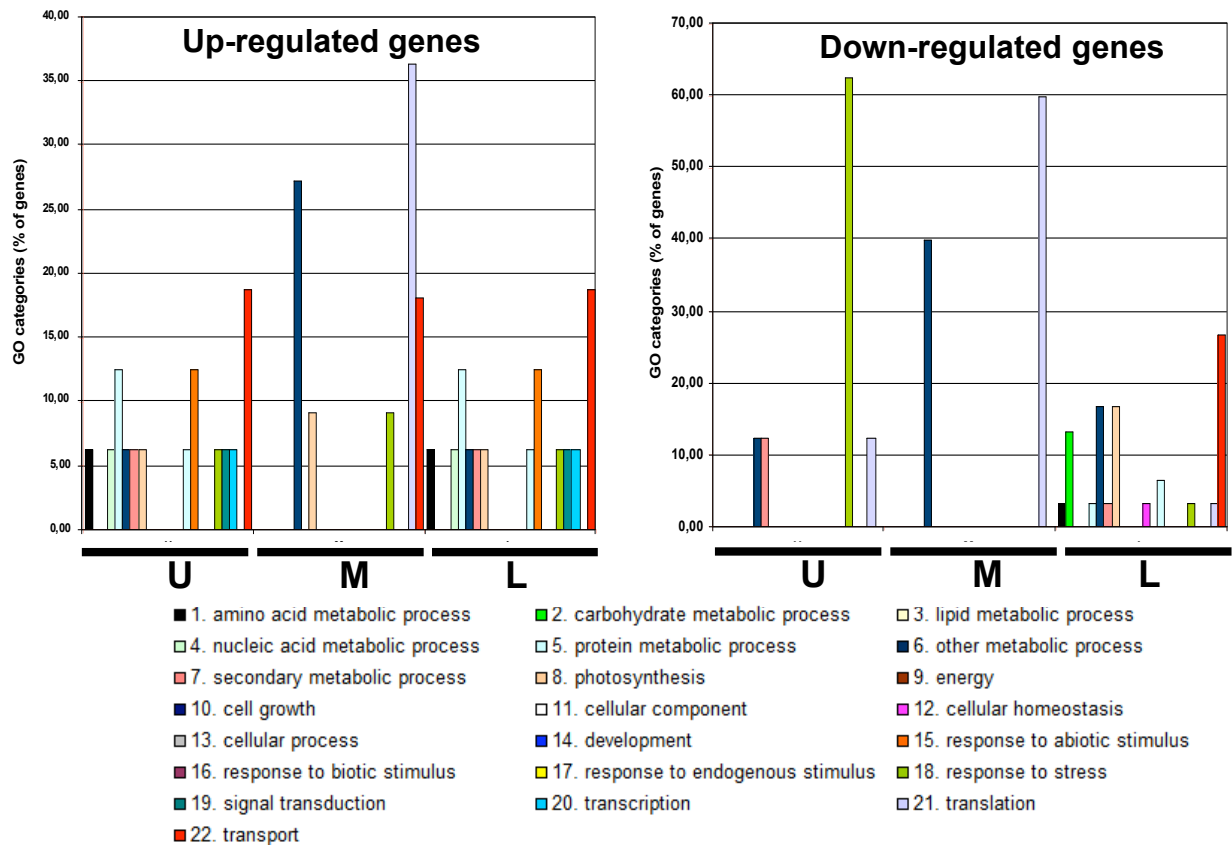


a**Inner tissues****b****Outer tissues**

Supplementary data 6. Gene ontology (GO) biological processes up-/down-regulated in inner-/outer stem tissues; **a)** inner stem tissues, percentage genes in different GO biological process categories that are up-regulated ($\log_2\text{ratio} > 1.5$, left) and down-regulated ($\log_2\text{ratio} < 1.5$, right) in upper (U), middle (M) and lower L) stem samples as compared to expression levels in whole inner stem tissue sample. **b)** outer stem tissues, percentage genes in different GO biological process categories that are up-regulated ($\log_2\text{ratio} > 1.5$, left) and down-regulated ($\log_2\text{ratio} < 1.5$, right) in upper (U), middle (M) and lower L) stem samples as compared to expression levels in whole outer stem tissue sample.