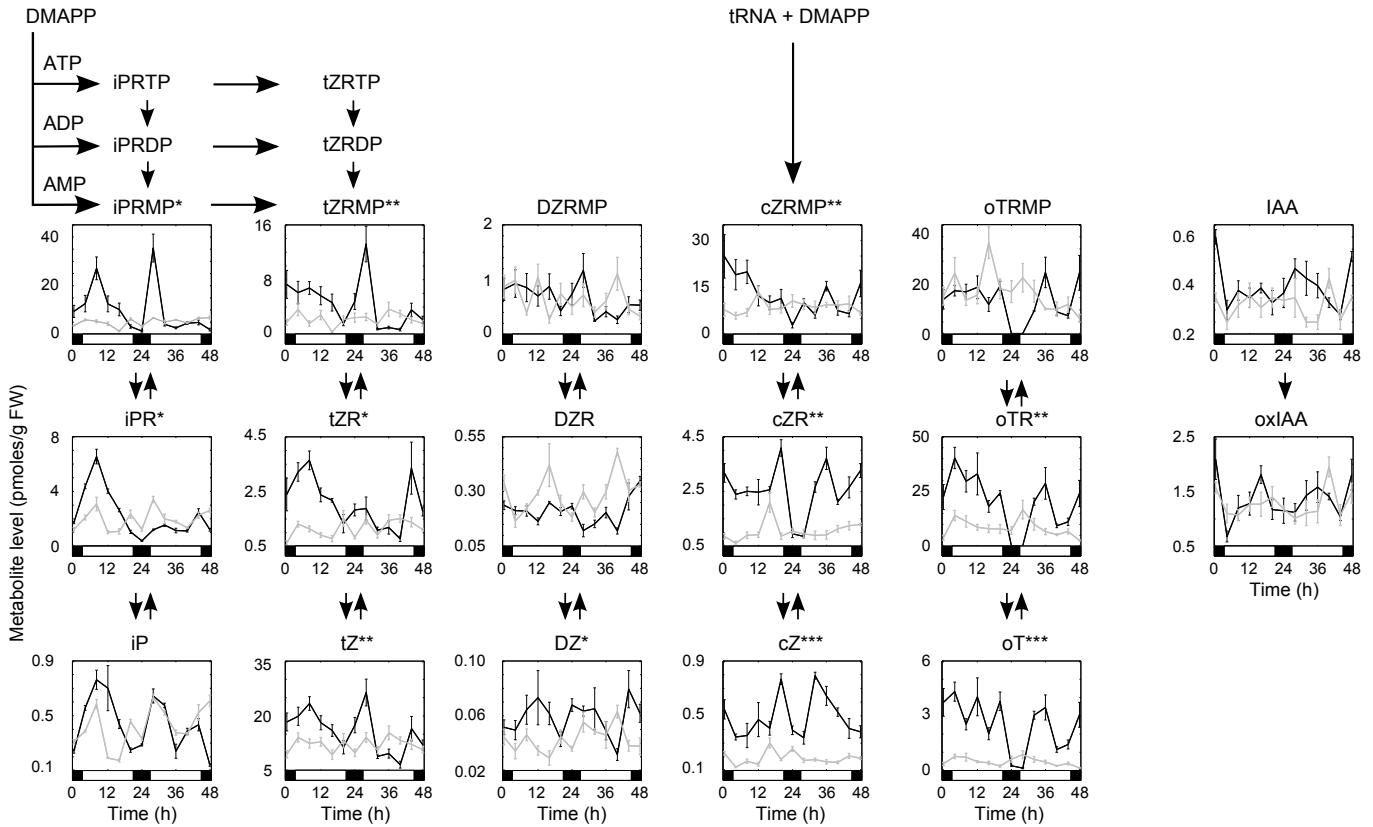


**(a) Cytokinins****(b) Auxins****Figure S3.**

Full metabolite profiles detected in WT and *lhy-10* trees (parts of which shown in Figure 2)

(a) Levels of cytokinin metabolites in leaf blades of wild type (black) and *lhy-10* (grey) trees. Samples from four randomly selected *Populus* trees per genotype were pooled at each time point. Arrows indicate the direction of biosynthesis and degradation. Mean values are shown. Error bars in (a) represent  $\pm 1$  SE from one biological pool with four technical replicates.

(b) IAA and IAA-ox metabolites measured in leaf blades of wild type (black) and *lhy-10* (grey) trees.

Each time-point shows the mean value of three biological replicates, each containing three technical replicates.

Sampling starting at ZT 21 (time 0).

All measurements show pmoles/g FW. Significant differences of metabolites following statistical Mixed effects models showing significant effects for Genotype (\*P < 0.05, \*\* P < 0.01, \*\*\* P < 0.001) on the level of each metabolite represented within each plot.

p values were calculated in R using lme4 package including plant and leaf as random effects as described in 'Material and Methods'.