



Figure S1: Hierarchical clustering analysis of log₂(FC)s expression. The heatmap represents genes displaying statistical significance ($\log_2(\text{FC}) \geq 1.5$, adjusted P-value ≤ 0.05) for differential expression between treatments (T2, T3, T4) versus control (C2). The up-regulated genes are reported in orange, the down-regulated genes in blue, and the genes not differentially expressed in white.