

Figure S1: Analysis of Gene Expression Quantifies Consistency and Variability between CS10 and CS11. (A) Gene Expression Density Distribution. The x-axis represents the logarithmic value of gene expression levels (Log2FPKM), and the y-axis represents density. Different colored lines correspond to different samples, with peak regions indicating where the majority of gene expression is concentrated. (B) Box Plot of Gene Expression Levels per Sample. This visualizes the expression levels for each sample, facilitating observation of overall trends and outliers. The box plot delineates the full range of expression from the maximum to the minimum values, including the upper quartile, median, and lower quartile marks. (C) Gene Expression Correlation Heatmap. Deeper colors indicate higher correlations, thus depicting the similarity in gene expression levels across samples.

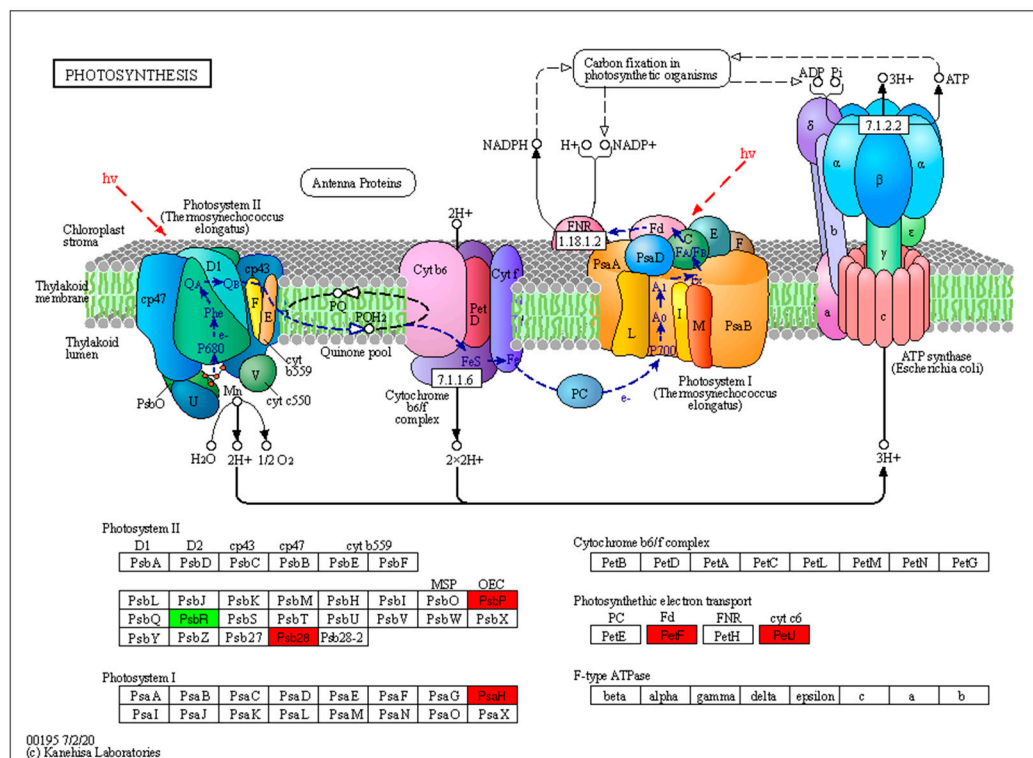


Figure S2: The photosynthesis pathway with differential gene expressions highlighted: red for upregulated genes and green for downregulated genes.

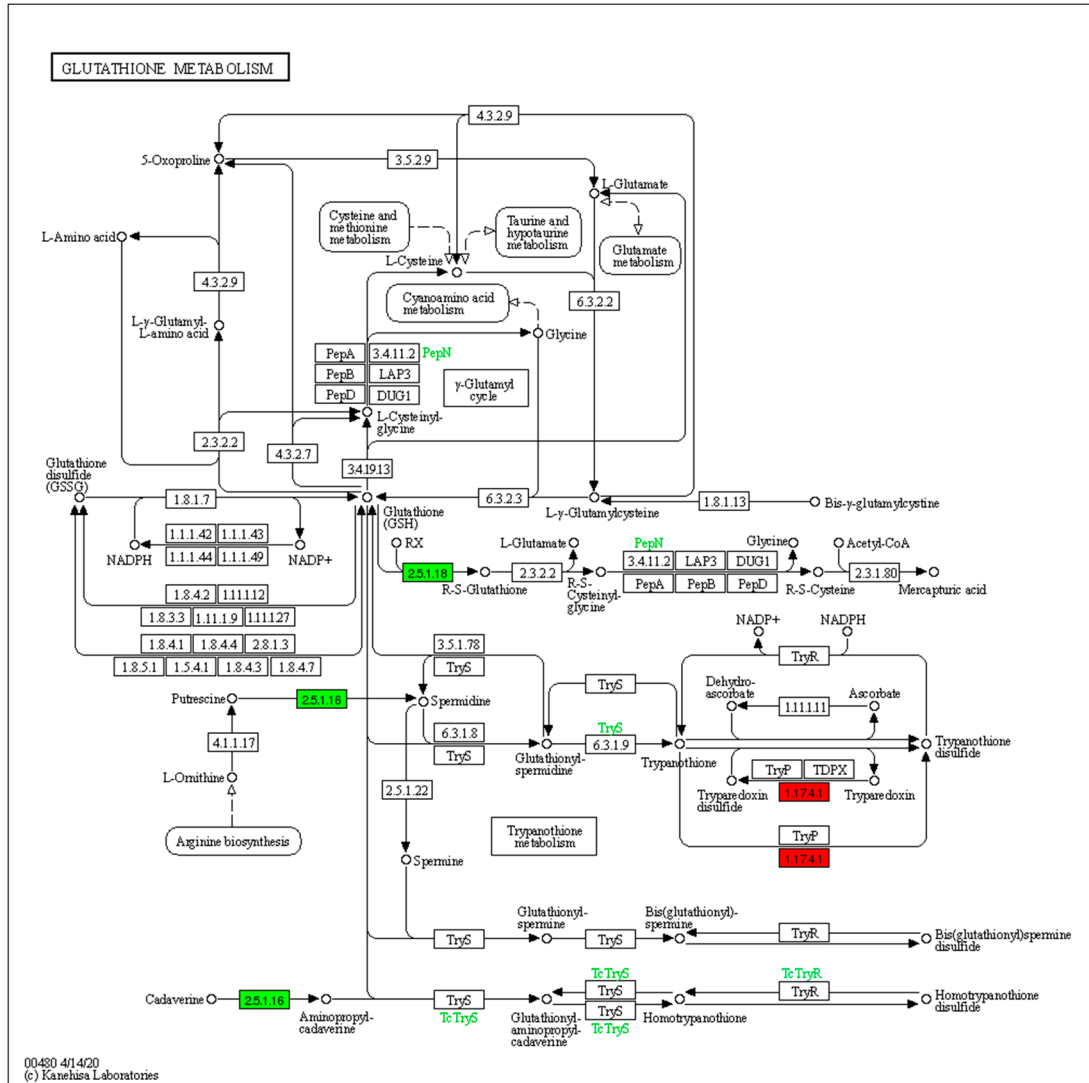


Figure S3: The glutathione metabolism pathway with differential gene expressions highlighted: red for upregulated genes and green for downregulated genes.