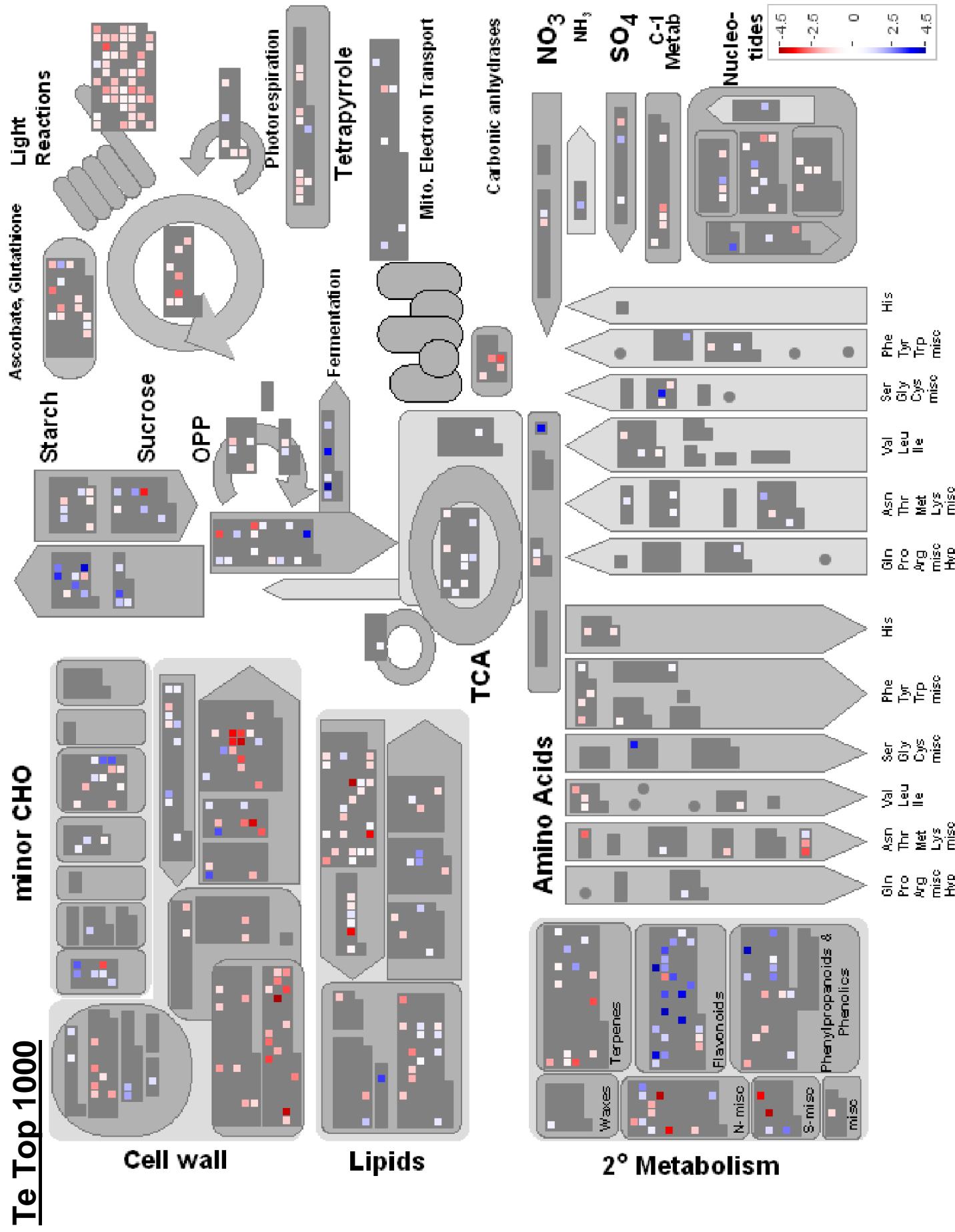
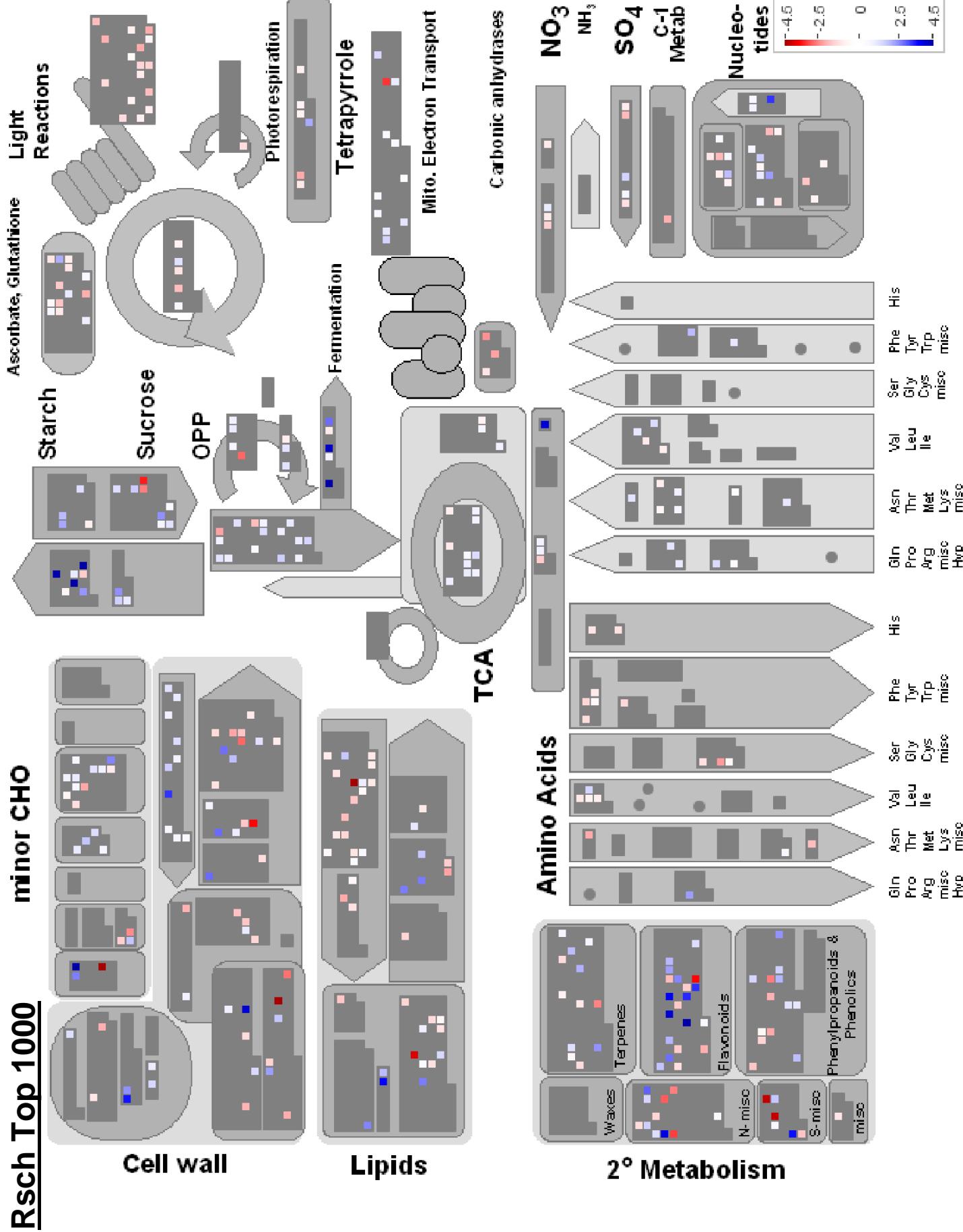
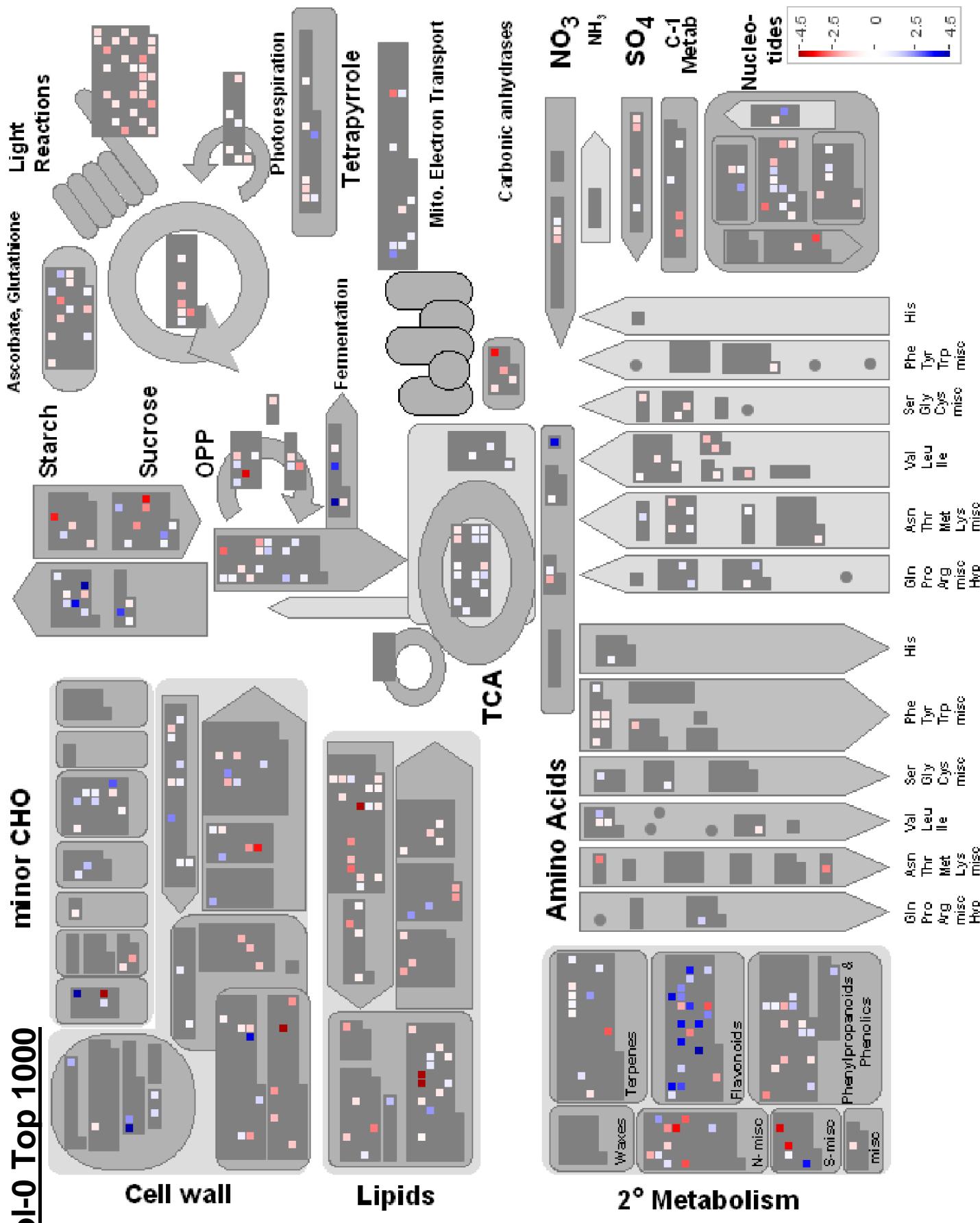


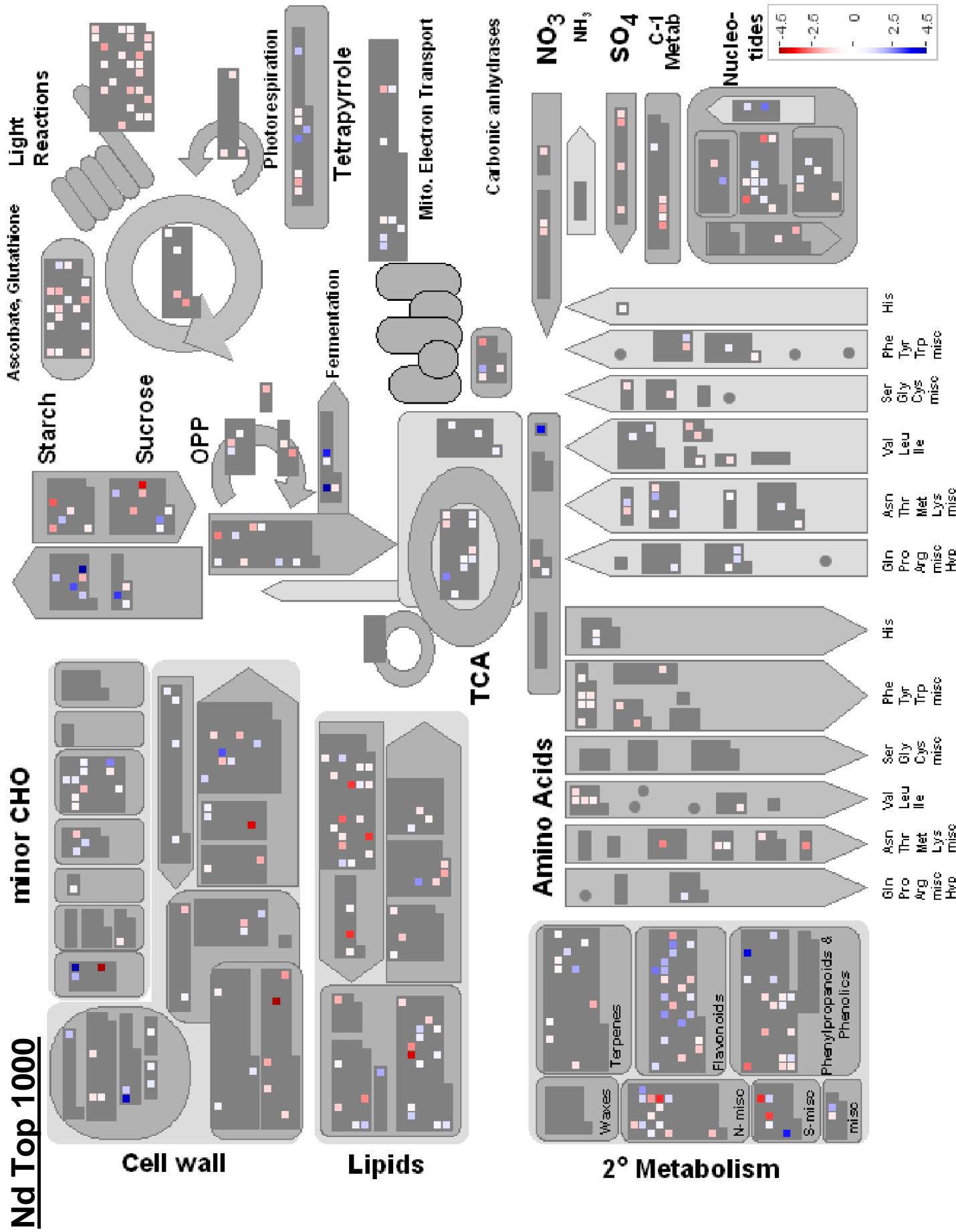
**Supplemental Figure 1.** Mapman visualization of general metabolism pathways for gene lists used in this study. These lists are the 1000 most significant up- and down-regulated genes for each accession during cold acclimation, the 423 genes significantly changed during cold acclimation in all accessions, genes positively and negatively correlating with acclimated freezing tolerance for the core accessions and genes up- and down-regulated in Te or Can in comparison to the other accessions. Except for the correlations, data are the mean fold changes of GCRMA (log<sub>2</sub> scale) expression estimates for the comparison of interest. The intensity of blue or red colour indicates the magnitude of up- and down-regulation, respectively. For the list of genes correlating with acclimated freezing tolerance, blue and red respectively indicate positively and negatively correlating genes. Interactive viewing of these data and of other pathways via the Mapman software is strongly encouraged and details are provided in Supplemental Dataset 1.





## Col-0 Top 1000

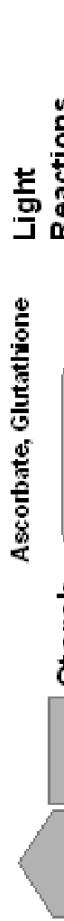




## Ler Top 1000

### minor CHO

#### Ascorbate, Glutathione Light Reactions



#### Starch



#### Sucrose



#### OPP



#### TCA

#### Fermentation

#### Mito. Electron Transport

#### Tetrapyrrole

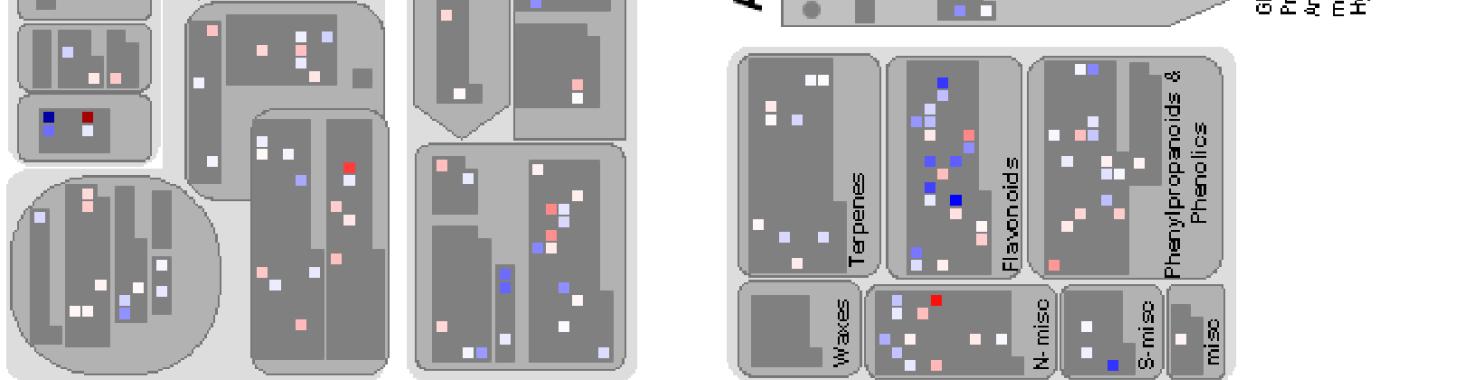
#### Photorespiration

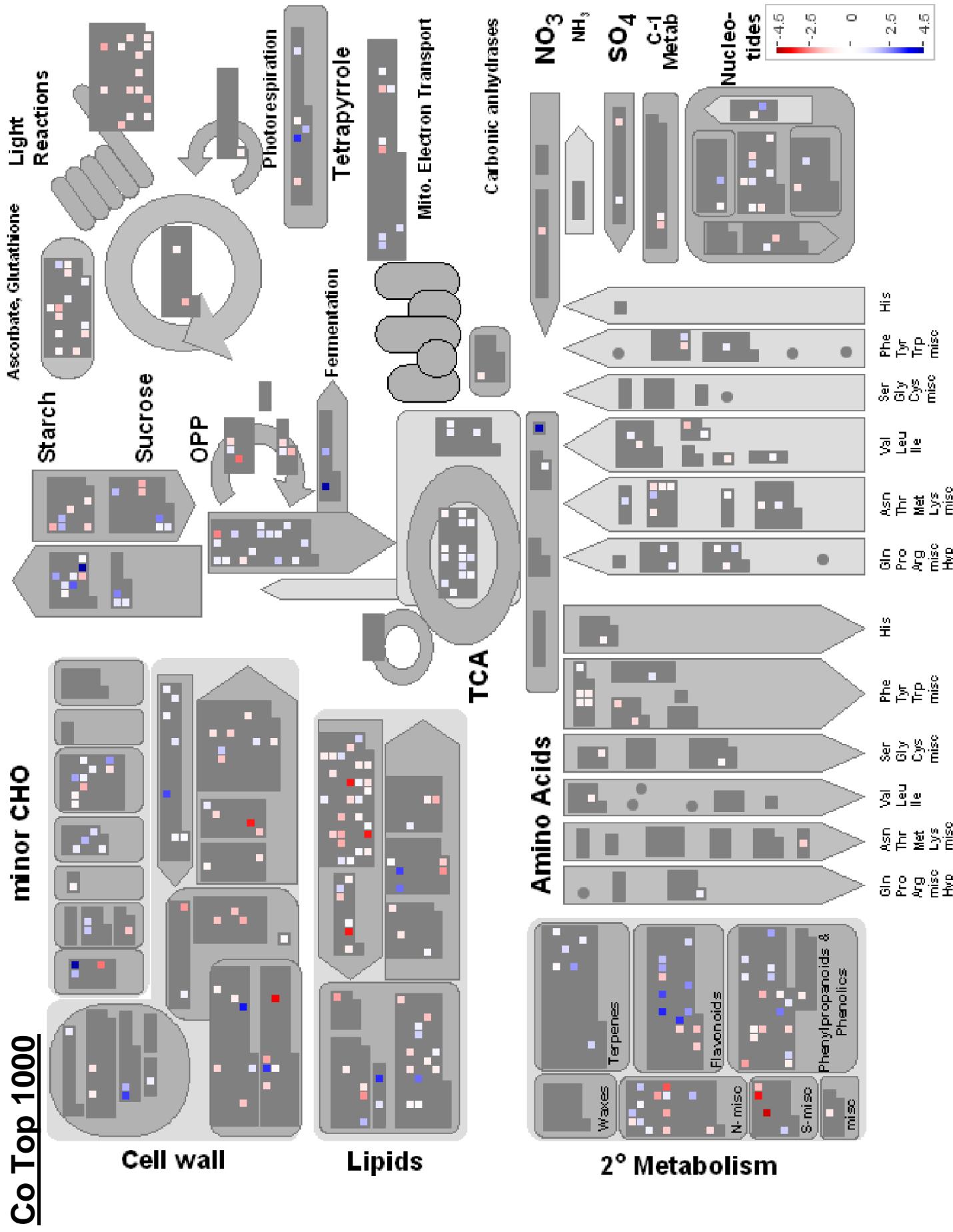
#### Light Reactions

## Cell wall

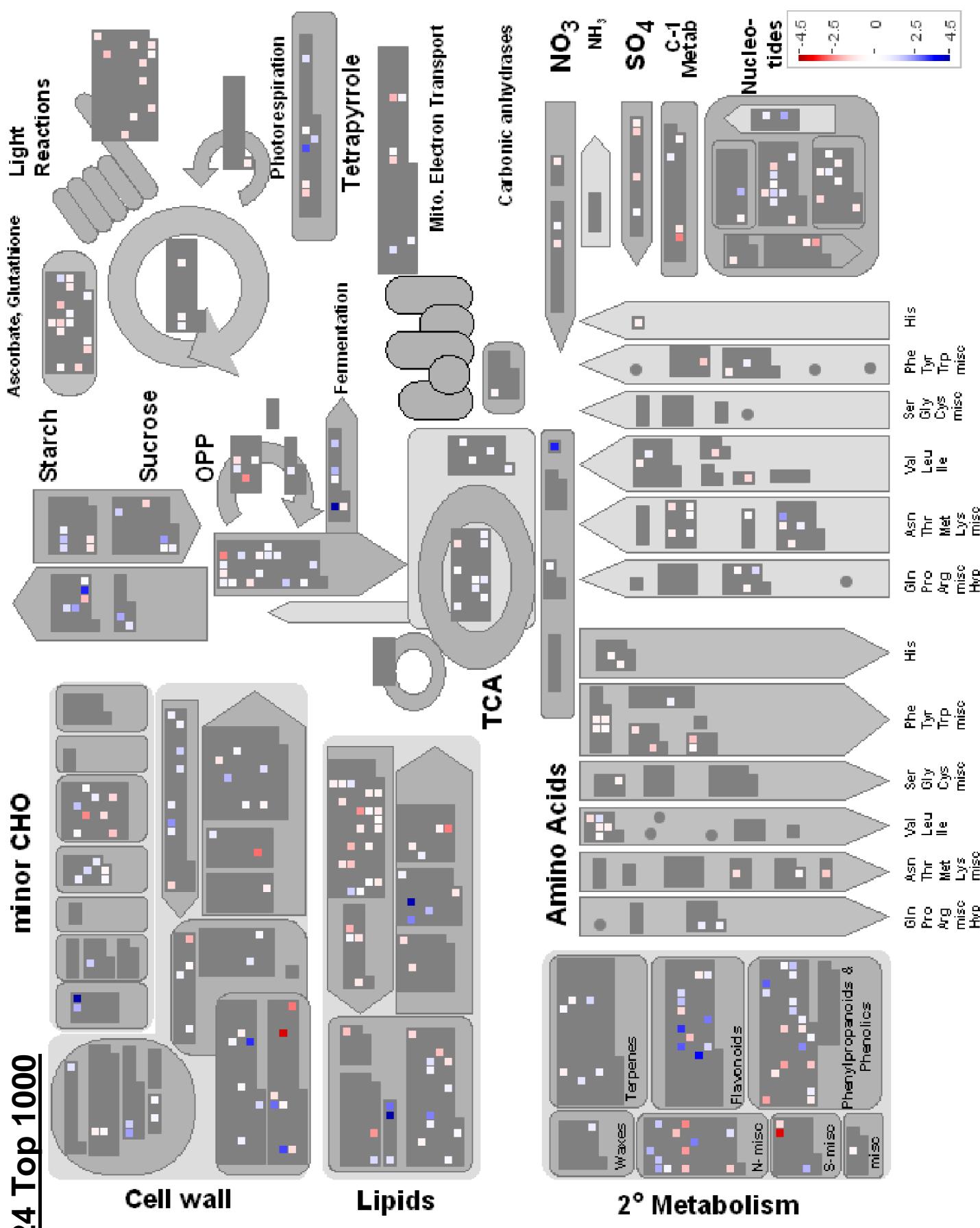
## Lipids

## 2° Metabolism

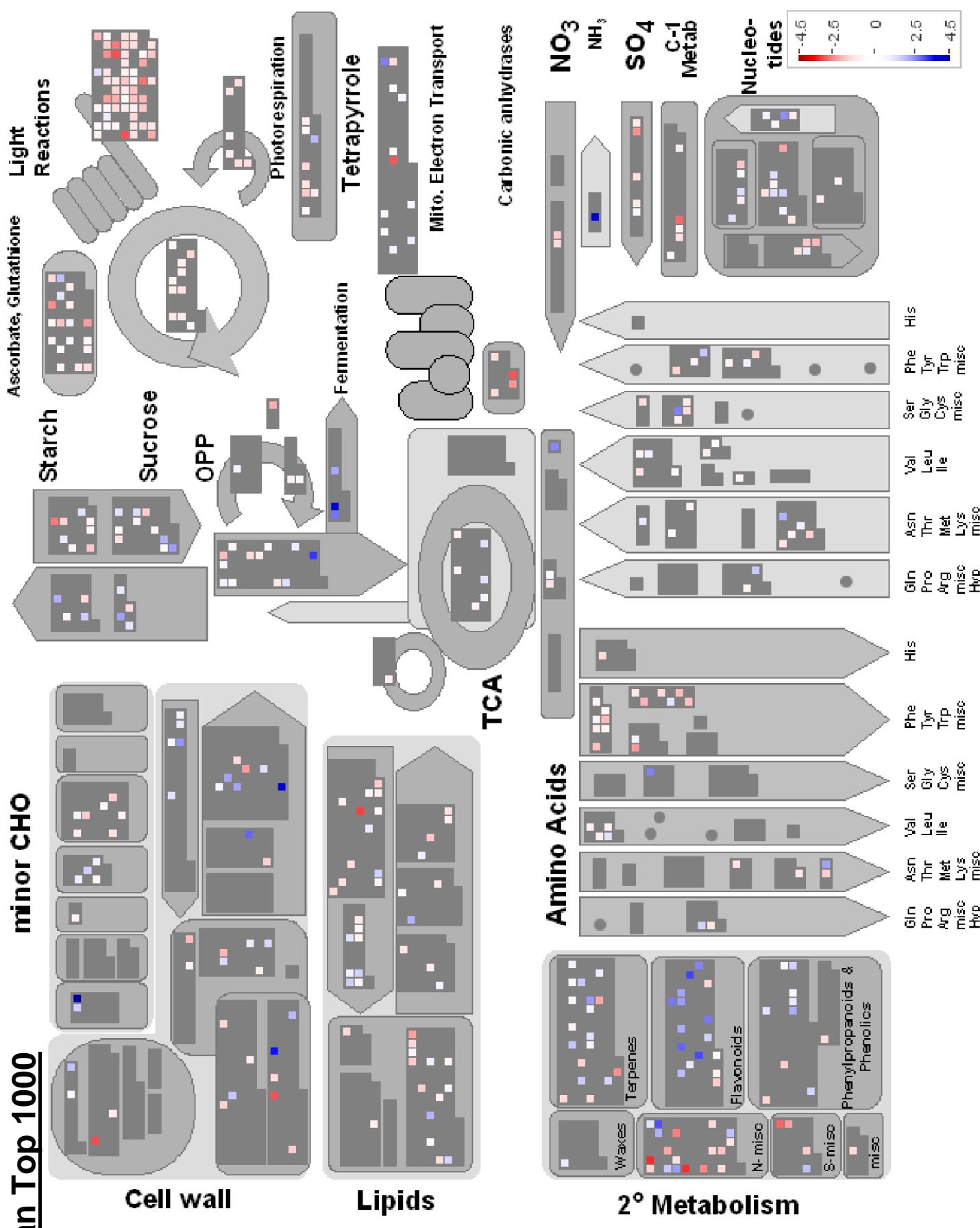




## C24 Top 1000



## Can Top 1000



## Cvi Top 1000

minor CHO

Ascorbate, Glutathione

Light Reactions

Starch

Sucrose

OPP

Photorespiration

Tetrapyrrole

Mito. Electron Transport

Fermentation

TCA

Cell wall

Lipids

2° Metabolism

Amino Acids

$\text{NO}_3^-$   
 $\text{NH}_3$   
 $\text{SO}_4^{2-}$   
C-1 Metab

Nucleotides

His  
Phe  
Tyr  
Trp  
misc

Ser  
Gly  
Cys  
misc

Val  
Leu  
Ile  
Asn  
Thr  
Met  
Lys  
misc

Gln  
Pro  
Arg  
misc  
Hyp

His  
Phe  
Tyr  
Trp  
misc

Ser  
Gly  
Cys  
misc

Val  
Leu  
Ile  
Asn  
Thr  
Met  
Lys  
misc

Terpenes  
Flavonoids  
Phenylpropanoids & Phenolics  
Waxes  
N-misc  
S-misc  
misc

-4.5  
-2.5  
0  
2.5  
4.5

## All accessions 0.05 minor CHO

