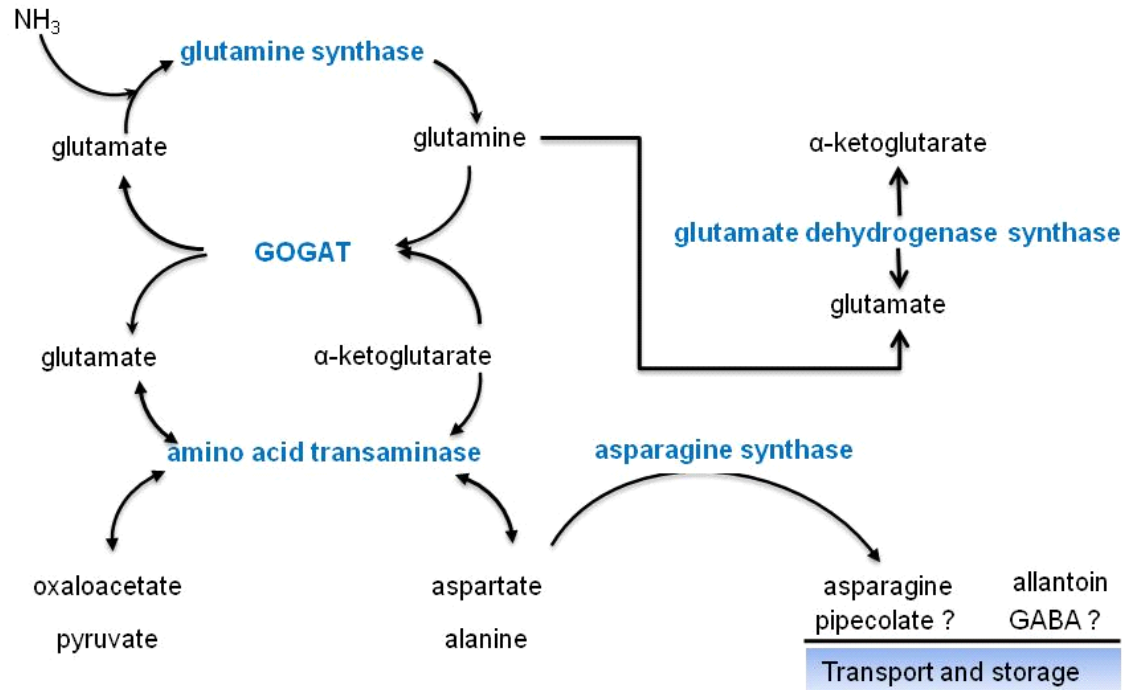
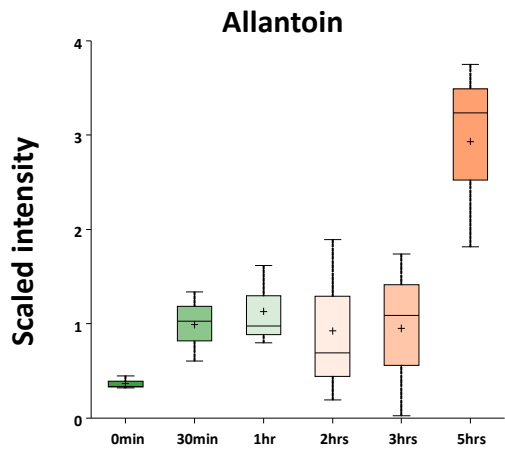
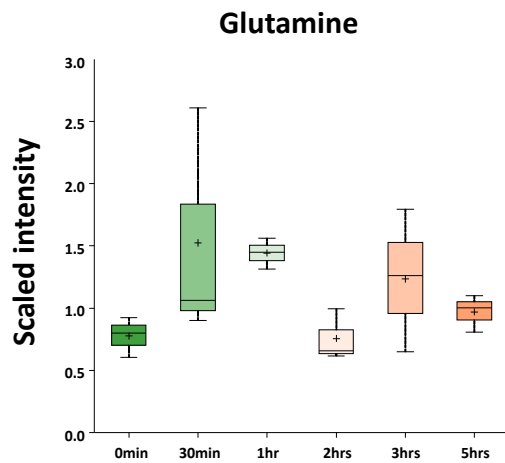
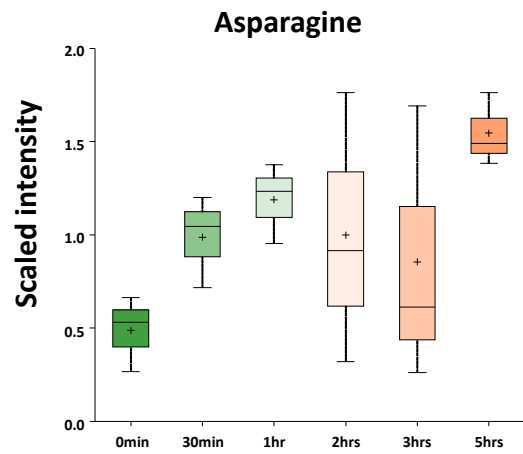


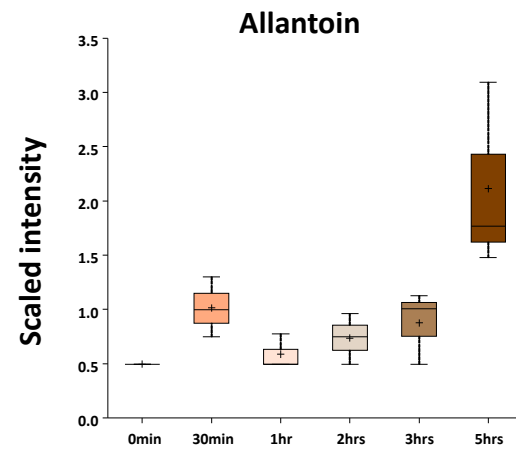
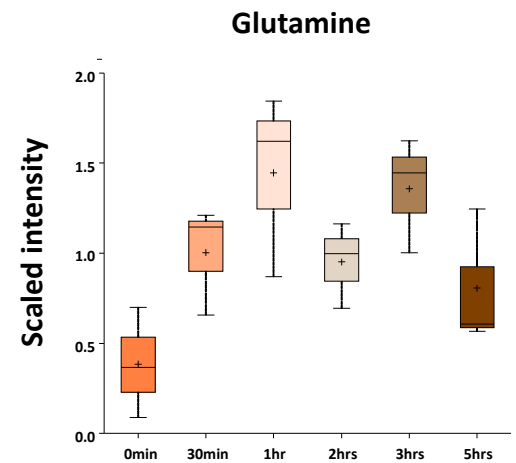
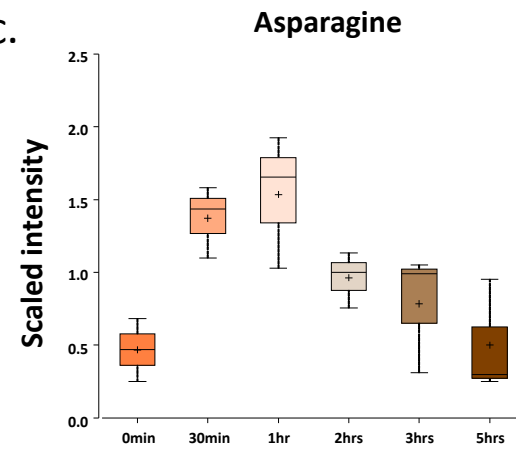
a.



b.



c.



d.

Biochemical Name	Fold Change				
	$\frac{T30}{T0}$	$\frac{T60}{T0}$	$\frac{T120}{T0}$	$\frac{T180}{T0}$	$\frac{T300}{T0}$
Root					
allantoin	2.05	1.19	1.49	1.77	4.27
allantoic acid	2.99	1.62	1.23	1.76	2.29
asparagine	2.94	3.29	2.06	1.68	1.07
glutamine	2.6	3.75	2.47	3.52	2.09
Leaf					
allantoin	2.69	3.07	2.51	2.59	7.97
asparagine	2.03	2.44	2.05	1.76	3.17
glutamine	1.97	1.86	0.97	1.59	1.25

Figure S2. Metabolite analysis of the ammonia detoxification processes. (a) Biosynthetic pathways associated with ammonia detoxification. (b) Box plot of asparagine, glutamine, and allantoin levels in leaf (b) and root (c). Crosses indicate the mean value, horizontal lines the median value, shaded boxes indicate the upper and lower quartiles, and the top and bottom of the bars indicate the maximum and minimum of the distribution. (d) Heat map of statistically significant changes in asparagine, glutamine, and allantoin levels. Red cells indicate $p \leq 0.05$ with the mean values significantly higher than the control. Light red cells indicate $0.05 < p < 0.10$.