

**Supplemental Table S2.** Profiling of native amino acids in 5-day-old *Arabidopsis thaliana* seedlings grown in the absence (untreated) or presence of 10  $\mu$ M *m*-tyrosine (*m*-Tyr).

	<b>Amino acid</b>	<b>control</b>	<b>+ <i>m</i>-Tyr</b>
1	Alanine	1.00 $\pm$ 0.12	0.82 $\pm$ 0.13
2	Arginine	1.00 $\pm$ 0.15	0.78 $\pm$ 0.16
3	Asparagine	1.00 $\pm$ 0.17	0.79 $\pm$ 0.18
4	Aspartate	1.00 $\pm$ 0.09	0.74 $\pm$ 0.16
5	Cysteine	1.00 $\pm$ 0.14	0.92 $\pm$ 0.24
6	Glutamate	1.00 $\pm$ 0.13	1.01 $\pm$ 0.14
7	Glutamine	1.00 $\pm$ 0.16	1.03 $\pm$ 0.29
8	Glycine	1.00 $\pm$ 0.07	0.78 $\pm$ 0.08
9	Histidine	1.00 $\pm$ 0.19	0.79 $\pm$ 0.21
10	Isoleucine	1.00 $\pm$ 0.06	0.85 $\pm$ 0.16
11	Leucine	1.00 $\pm$ 0.07	0.79 $\pm$ 0.22
12	Lysine	1.00 $\pm$ 0.11	0.79 $\pm$ 0.23
13	Methionine	1.00 $\pm$ 0.10	0.75 $\pm$ 0.16
14	Phenylalanine	1.00 $\pm$ 0.11	<b>0.57 <math>\pm</math> 0.06</b>
15	Proline	1.00 $\pm$ 0.13	1.11 $\pm$ 0.18
16	Serine	1.00 $\pm$ 0.17	0.77 $\pm$ 0.21
17	Threonine	1.00 $\pm$ 0.07	0.79 $\pm$ 0.21
18	Tryptophan	1.00 $\pm$ 0.09	0.86 $\pm$ 0.23
19	Tyrosine	1.00 $\pm$ 0.22	0.64 $\pm$ 0.12
20	Valine	1.00 $\pm$ 0.10	0.94 $\pm$ 0.15

5-day-old seedlings grown in the absence or presence of 10  $\mu$ M exogenous *m*-tyrosine (*m*-Tyr) were analyzed by GC-qTOF-MS. Data is presented as averages of 4 replicates normalized to control plants (i.e., untreated plants germinated in MS-media), grown under the same growth conditions. The data shows the relative peak area of each amino acid in untreated versus *m*-tyrosine-treated seedlings. The values are means of four biological replicates  $\pm$  SE. Significant differences following student's t-test ( $P \leq 0.05$ ), compared to the control, are represented in bold.