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

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

5-day-old seedlings grown in the absence or presence of 10 μM 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 ± SE. Significant differences following student’s t-test (P ≤ 0.05), compared to the control, are represented in bold.