APPENDIX S1

Table S1. Results of the analyses from linear mixed models for the effects of the herbivory treatments on growth and terpenoid concentration. Significant effects are in bold.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Response variable | Herbivory treatment | | |  | Plant part | | |  | Herbivory treatment x plant part | | | |
| df | *F* | *P* |  | df | *F* | *P* |  | df | *F* | *P* | |
| RGR | 2,17 | 4.778 | **0.023** |  | 1,30 | 16.075 | **0.0004** |  | 2,30 | 14.306 | | <**0.001** |
| Terpenoid conc. | 2,17 | 3.191 | 0.066 |  | 1,30 | 3.21 | 0.083 |  | 2,30 | 3.769 | | **0.035** |

Table S2. Abundance of *Meloidogyne incognita* eggs, J2 juveniles, and females in root egg masses of different sizes. Data were collected at the end of the experiment from plants in the belowground herbivory treatment by visualizing under a microscope.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Egg mass** | **Mean (± SE) Length (mm) x**  **Mean (± SE) Width (mm)** | **Number** | | |
| **Eggs** | **Juvenile (J2)** | **Female** |
| Small | 1.07 ± 0.05 x 1.8 ± 0.056 | 72 | 289 | 0 |
| Median | 2.33 ± 0.056 x 2.74 ± 0.08 | 51 | 108 | 51 |
| Large | 4.51 ± 0.26 x 4.98 ± 0.226 | 126 | 357 | 131 |

Figure S1. Whole-plant terpenoid concentration of N=6 seedlings harvested at the time herbivory treatments were initiated (“Initial”) compared with that of experimental plants exposed to aboveground herbivory (AG), belowground herbivory (BG), no-herbivory controls (N=15 per treatment). The boxes represent the interquartile range, the horizontal black lines indicate the medians, whiskers extend to 25% and 75% quartiles, and outliers are indicated by dots. Different letters indicate significant differences among herbivory treatments (*P*<0.05) based on *post hoc* Tukey’s tests. Note that the N=6 seedlings used to quantify “initial” terpenoid concentrations are different from the N=15 used for pre-experiment estimates of root length, root complexity, and initial dry weight.

