**SUPPORTING INFORMATION**

**Biomass allocation in response to nitrogen and phosphorus availability: insight from experimental manipulations of *Arabidopsis thaliana***

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**This file includes:**

**Table S1**

**Figures S1-S2**

**Table S1** Summary of the one-way analysis of variance (ANOVA) of biomass allocation fractions under N and P additions. Abbreviations: LMF, leaf mass fraction; SMF, stem mass fraction; FMF, fruit mass fraction; df, degrees of freedom; MS, mean squares.

|  |  |  |  |
| --- | --- | --- | --- |
|  | LMF | SMF | FMF |
| *N addition* |  |  |  |
|  df | 4 | 4 | 4 |
|  MS | 259.32 | 34.68 | 301.39 |
|  F value | 12.23 | 3.30 | 18.31 |
|  *p* value | <0.001 | 0.013 | <0.001 |
| *P addition* |  |  |  |
|  df | 4 | 4 | 4 |
|  MS | 223.91 | 97.29 | 46.41 |
|  F value | 6.78 | 8.37 | 2.46 |
|  *p* value | <0.001 | <0.001 | 0.050 |

**Figure S1** Biomass allocation of *Amaranthus mangostanus* under different levels of N and P additions. Effects (F value) of N and P additions and their interaction (N×P) on biomass allocation were presented in each panel. F and *p* values (\*\*\**p*<0.001; \*\**p*<0.01; \**p*<0.05) were determined by two-way analysis of variance.



**Figure S2** Changes in the flowering time of *A. thaliana* with the levels of N and P additions. Points and error bars denote the means and standard errors of flowering time, respectively. Different letters above the error bars indicate significant difference (*p*<0.05) among the five levels of N or P addition based on one-way analysis of variance (ANOVA) and the least significant difference post hoc test.

