

Supplementary Data (Tables S1 and Figures S1-S2)

Table S1. All parameters for two-way ANOVA for in leaves and roots

| Parameters | Tissue | Cu | | B | | Cu × B | |
|------------|--------|-------|--------|------|--------|--------|--------|
| | | F | p | F | p | F | p |
| HPR | Leaves | 21.3 | 0.0002 | 6.3 | 0.0084 | 3.9 | 0.0393 |
| | Roots | 46.5 | 0.0001 | 8.6 | 0.0023 | 8.0 | 0.0033 |
| SAPR | Leaves | 24.3 | 0.0001 | 3.8 | 0.0423 | 7.3 | 0.0046 |
| | Roots | 19.8 | 0.0003 | 4.3 | 0.0292 | 3.5 | 0.0527 |
| MDA | Leaves | 377.6 | 0.0001 | 46.2 | 0.0001 | 54.9 | 0.0001 |
| | Roots | 415.9 | 0.0001 | 63.3 | 0.0001 | 62.2 | 0.0001 |
| MG | Leaves | 19.0 | 0.0004 | 7.7 | 0.0038 | 7.4 | 0.0046 |
| | Roots | 3.7 | 0.0721 | 2.2 | 0.1376 | 1.1 | 0.3421 |
| CAT | Leaves | 113.6 | 0.0001 | 0.9 | 0.4327 | 3.9 | 0.0393 |
| | Roots | 45.5 | 0.0001 | 10.7 | 0.0009 | 9.7 | 0.0014 |
| APX | Leaves | 18.9 | 0.0004 | 3.1 | 0.0702 | 2.7 | 0.0974 |
| | Roots | 3.6 | 0.0725 | 5.2 | 0.0165 | 3.3 | 0.0615 |
| DHAR | Leaves | 52.7 | 0.0001 | 1.2 | 0.3253 | 3.6 | 0.0480 |
| | Roots | 30.1 | 0.0001 | 16.4 | 0.0001 | 11.6 | 0.0006 |
| MDHAR | Leaves | 8.9 | 0.0080 | 2.5 | 0.1108 | 1.6 | 0.2298 |
| | Roots | 3.1 | 0.0932 | 5.0 | 0.0188 | 3.4 | 0.0575 |
| GR | Leaves | 3.8 | 0.0675 | 1.7 | 0.2036 | 1.8 | 0.1924 |
| | Roots | 7.9 | 0.0114 | 4.5 | 0.0262 | 6.8 | 0.0064 |
| GuPX | Leaves | 11.6 | 0.0032 | 4.6 | 0.0241 | 5.741 | 0.0118 |
| | Roots | 9.0 | 0.0076 | 0.4 | 0.6919 | 1.1 | 0.3629 |
| SOD | Leaves | 37.2 | 0.0001 | 1.0 | 0.3738 | 1.3 | 0.3021 |
| | Roots | 49.0 | 0.0001 | 4.0 | 0.0370 | 3.2 | 0.0651 |
| ATPS | Leaves | 5.0 | 0.0378 | 1.6 | 0.2257 | 2.0 | 0.1607 |
| | Roots | 0.2 | 0.6564 | 7.1 | 0.0054 | 6.5 | 0.0076 |
| APR | Leaves | 12.1 | 0.0026 | 1.2 | 0.3270 | 1.0 | 0.3924 |
| | Roots | 3.8 | 0.0658 | 2.4 | 0.1155 | 2.7 | 0.0926 |
| SiR | Leaves | 16.5 | 0.0007 | 0.9 | 0.4107 | 0.8 | 0.4660 |
| | Roots | 8.8 | 0.0082 | 2.8 | 0.0899 | 3.0 | 0.0739 |
| CS | Leaves | 91.5 | 0.0001 | 3.6 | 0.0493 | 4.7 | 0.0235 |
| | Roots | 95.7 | 0.0001 | 5.5 | 0.0137 | 7.8 | 0.0036 |
| γGCS | Leaves | 35.4 | 0.0001 | 1.8 | 0.1965 | 2.4 | 0.1160 |
| | Roots | 13.7 | 0.0016 | 3.2 | 0.0668 | 2.2 | 0.1437 |
| γGT | Leaves | 24.3 | 0.0001 | 7.6 | 0.0041 | 5.8 | 0.0112 |
| | Roots | 10.9 | 0.0040 | 2.0 | 0.1586 | 2.2 | 0.1356 |
| GST | Leaves | 37.4 | 0.0001 | 7.3 | 0.0048 | 16.0 | 0.0001 |
| | Roots | 8.9 | 0.0079 | 1.1 | 0.3647 | 2.6 | 0.0988 |
| Gly I | Leaves | 3.1 | 0.0976 | 1.1 | 0.3583 | 5.9 | 0.0107 |
| | Roots | 1.7 | 0.2031 | 3.4 | 0.0546 | 3.7 | 0.0455 |
| Gly II | Leaves | 5.1 | 0.0361 | 1.4 | 0.2647 | 0.6 | 0.5494 |
| | Roots | 18.4 | 0.0004 | 2.1 | 0.1489 | 3.1 | 0.0673 |
| TA | Leaves | 13.6 | 0.0017 | 8.9 | 0.0021 | 12.2 | 0.0005 |
| | Roots | 95.4 | 0.0001 | 4.7 | 0.0226 | 4.3 | 0.0292 |
| ASC | Leaves | 8.7 | 0.0085 | 6.8 | 0.0064 | 9.8 | 0.0013 |

| | | | | | | | |
|--------|--------|------|--------|-----|--------|------|--------|
| | Roots | 62.1 | 0.0001 | 2.3 | 0.1328 | 2.1 | 0.1520 |
| DHA | Leaves | 8.4 | 0.0097 | 2.8 | 0.0849 | 3.2 | 0.0631 |
| | Roots | 17.3 | 0.0006 | 2.3 | 0.1241 | 2.0 | 0.1688 |
| ASC/TA | Leaves | 2.0 | 0.1761 | 0.1 | 0.8768 | 0.4 | 0.6615 |
| | Roots | 1.1 | 0.3016 | 0.5 | 0.6412 | 0.4 | 0.6623 |
| TG | Leaves | 3.5 | 0.0793 | 1.2 | 0.3305 | 1.0 | 0.3709 |
| | Roots | 2.8 | 0.1097 | 1.5 | 0.2467 | 1.2 | 0.3313 |
| GSH | Leaves | 3.4 | 0.0824 | 0.9 | 0.4111 | 0.9 | 0.4370 |
| | Roots | 3.0 | 0.1027 | 1.6 | 0.2290 | 1.3 | 0.3016 |
| GSSG | Leaves | 0.2 | 0.8966 | 0.1 | 0.8840 | 0.2 | 0.7828 |
| | Roots | 0.0 | 0.9765 | 0.0 | 0.9977 | 0.0 | 0.9913 |
| GSH/TG | Leaves | 2.6 | 0.1226 | 0.3 | 0.7126 | 0.2 | 0.7876 |
| | Roots | 2.6 | 0.1224 | 0.6 | 0.5479 | 0.6 | 0.5816 |
| MTs | Leaves | 13.2 | 0.0019 | 3.7 | 0.0446 | 3.4 | 0.0565 |
| | Roots | 52.6 | 0.0001 | 9.6 | 0.0015 | 10.6 | 0.0009 |
| PCs | Leaves | 18.2 | 0.0005 | 7.0 | 0.0057 | 6.5 | 0.0076 |
| | Roots | 20.0 | 0.0003 | 3.5 | 0.0526 | 2.7 | 0.0960 |
| TNP-SH | Leaves | 18.0 | 0.0005 | 6.9 | 0.0061 | 6.3 | 0.0084 |
| | Roots | 19.7 | 0.0003 | 3.5 | 0.0532 | 2.7 | 0.0949 |

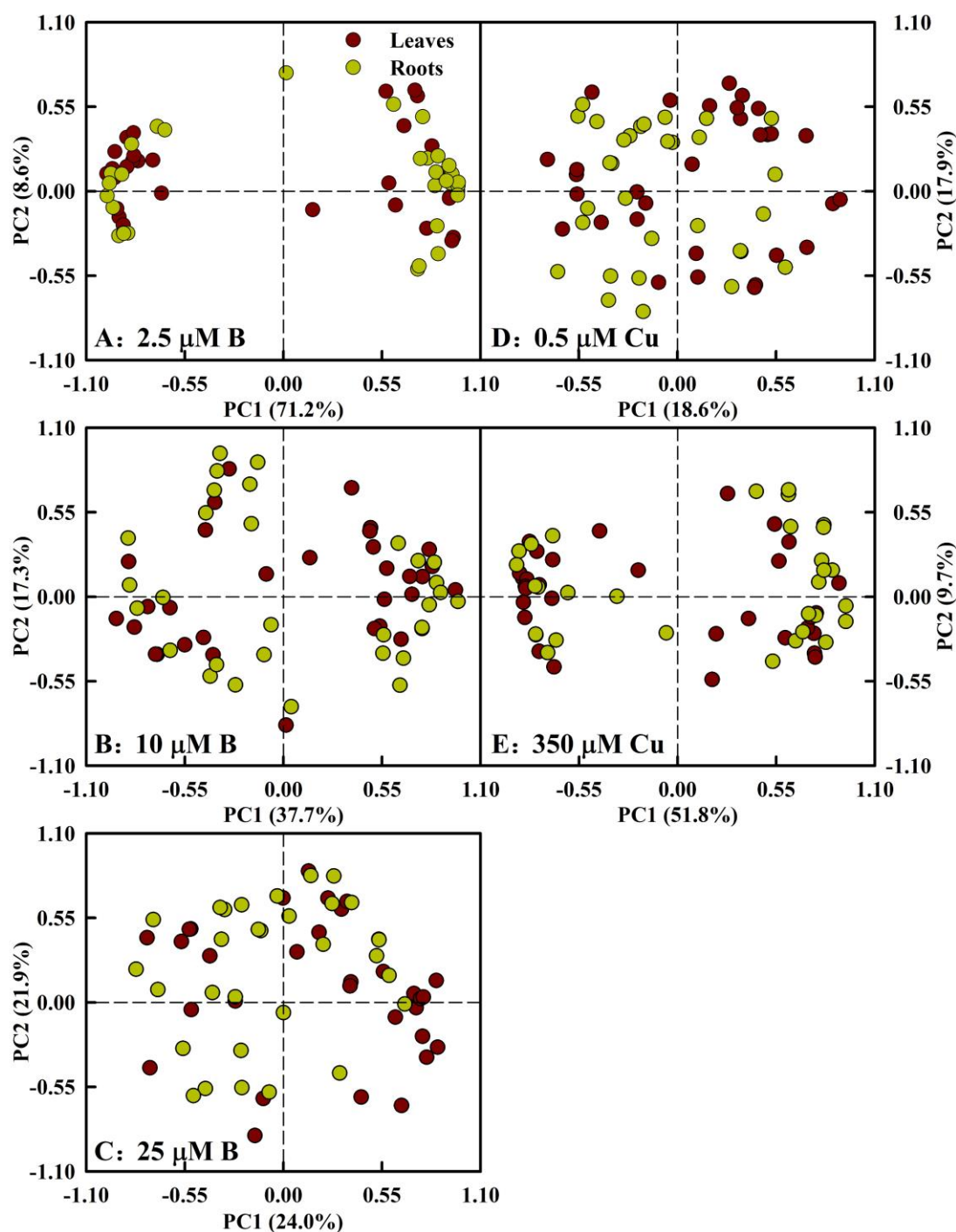


Fig. S1. Principle component scatter plot for 62 indexes (31 leaf + 31 root indexes) in leaves and roots of 2.5 (A), 10 (B), and 25 (C) μM B-treated *Citrus sinensis* seedlings at various Cu (0.5 and 350 μM) levels, and in leaves and roots of 0.5 (D) and 350 (E) μM Cu-treated *C. sinensis* seedlings at various B (2.5, 10, and 25 μM) levels.

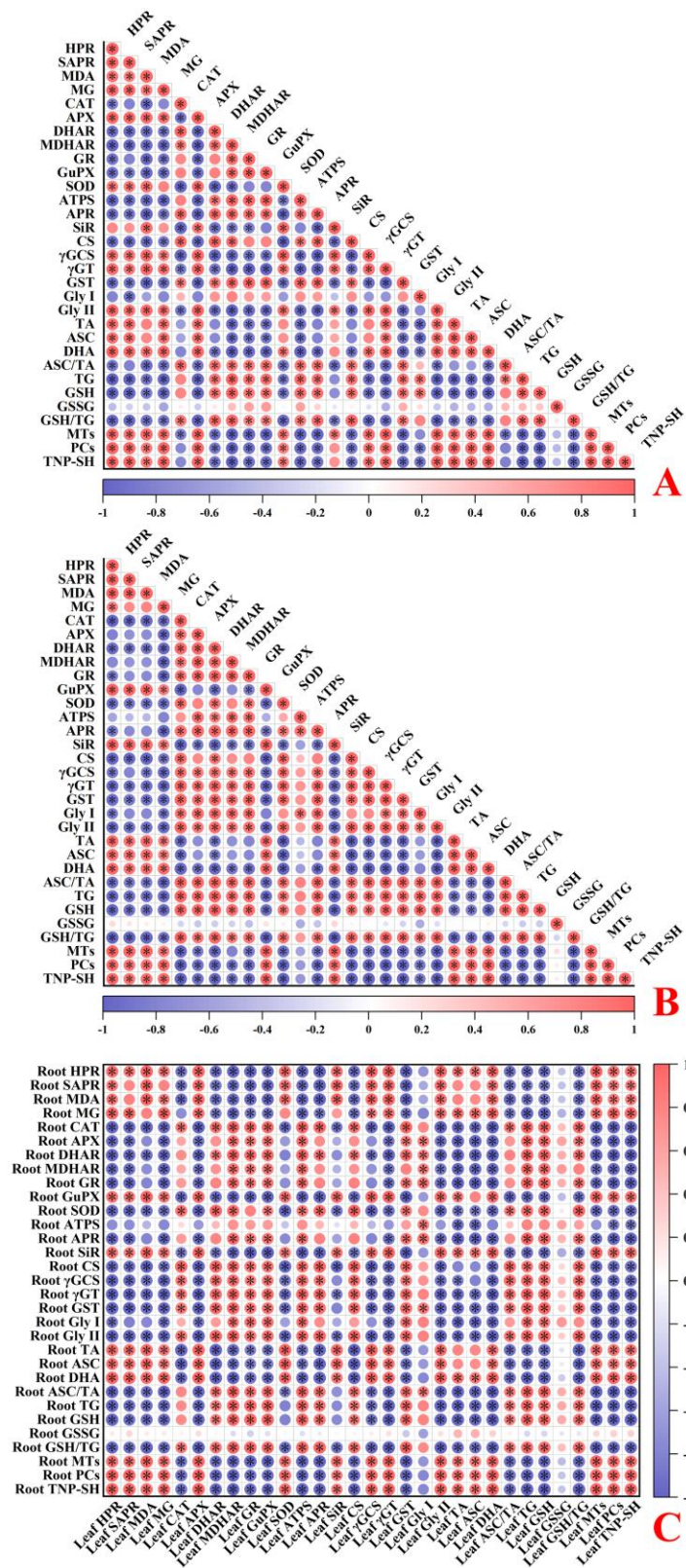


Fig. S2. Pearson correlation coefficient matrices for the mean values of 31 physiological parameters in leaves (A), roots (B), and between leaves and roots (C) of *C. sinensis* seedlings.