**Table S3.** Summary statistics for Dynamic Assimilation Technique (DAT) A/Ci curves and steady-state (SS) A/Ci curves.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Method** | **Mean**  (μmol CO2 m−2**·**s−1) | **Median**  (μmol CO2 m−2**·**s−1) | **SD**  (μmol CO2 m−2**·**s−1) | **Range**  (μmol CO2 m−2**·**s−1) |
| **TPU-Enabled (n = 27 pairs)** | | | | |
| Vcmax |  |  |  |  |
| DAT | 33.2 | 28.5 | 17.8 | 10.1, 80.9 |
| SS | 34.2 | 26.7 | 18.3 | 11.0, 83.2 |
| Jmax |  |  |  |  |
| DAT | 51.6 | 48.4 | 24.2 | 11.8, 112.4 |
| SS | 59.7 | 52.4 | 26.5 | 24.0, 120.5 |
| TPU (n = 6) |  |  |  |  |
| DAT | 4.2 | 4.2 | 1.9 | 0.9, 8.4 |
| SS | 5.8 | 6.2 | 3.0 | 2.5, 9.4 |
| **No TPU (n = 27 pairs)** | | | | |
| Vcmax |  |  |  |  |
| DAT | 31.6 | 28.5 | 15.9 | 9.9, 69.9 |
| SS | 33.7 | 26.7 | 18.2 | 11.0, 83.2 |
| Jmax |  |  |  |  |
| DAT | 47.4 | 47.4 | 20.3 | 9.5, 100.4 |
| SS | 58.4 | 51.6 | 25.3 | 24.0, 114.5 |
| **TPU-enabled, *Only* Curves without Overshoot (n = 19 pairs)** | | | | |
| Vcmax |  |  |  |  |
| DAT | 29.7 | 24.7 | 14.0 | 10.1, 67.6 |
| SS | 30.7 | 25.9 | 14.2 | 11.0, 63.8 |
| Jmax |  |  |  |  |
| DAT | 51.3 | 47.8 | 19.1 | 22.7, 100.5 |
| SS | 55.8 | 51.6 | 20.4 | 24.0, 105.3 |
| **No TPU, *Only* Curves without Overshoot (n = 19 pairs)** | | | | |
| Vcmax |  |  |  |  |
| DAT | 28.9 | 24.7 | 13.5 | 9.9, 67.4 |
| SS | 30.7 | 25.9 | 14.2 | 11.0, 63.8 |
| Jmax |  |  |  |  |
| DAT | 50.2 | 47.4 | 17.5 | 23.6, 100.4 |
| SS | 55.8 | 51.6 | 20.3 | 24.0, 105.3 |