

**Supplementary Table 4. The variance of separated-CO<sub>2</sub> (e.g. Mid) and combined-CO<sub>2</sub> (e.g. Low + Mid) growth rate-Fe' curves, modelled using a Michaelis-Menten equation (Michaelis & Menten, 1913); where each curve was normalised to the modelled half saturation parameter (K<sub>m</sub>) for that CO<sub>2</sub> and light treatment.**

	$\mu_m$	S.E.	<i>t</i> -value	<i>p</i>	K <sub>m</sub>	S.E.	<i>t</i> -value	<i>p</i>	RSS	df
Low Light										
LCO <sub>2</sub>	0.104	0.0048	21.66	< 0.0001	1.0	0.1642	6.09	0.0037	0.0001	4
MCO <sub>2</sub>	0.132	0.0069	19.12	< 0.0001	1.0	0.3101	3.23	0.0321	0.0003	4
HCO <sub>2</sub>	0.134	0.0117	11.45	0.0003	1.0	0.3766	2.66	0.0567	0.0009	4
LCO <sub>2</sub> + MCO <sub>2</sub>	0.121	0.0074	16.23	< 0.0001	1.0	0.2770	3.61	0.0048	0.0018	10
LCO <sub>2</sub> + HCO <sub>2</sub>	0.121	0.0091	13.17	< 0.0001	1.0	0.2967	3.37	0.0071	0.0025	10
MCO <sub>2</sub> + HCO <sub>2</sub>	0.133	0.0060	22.23	< 0.0001	1.0	0.2253	4.44	0.0013	0.0012	10
LCO <sub>2</sub> + MCO <sub>2</sub> + HCO <sub>2</sub>	0.125	0.0063	19.71	< 0.0001	1.0	0.2249	4.45	0.0004	0.0032	16
High Light										
LCO <sub>2</sub>	0.193	0.0213	9.077	0.0003	1.0	0.4459	2.24	0.0750	0.0034	5
MCO <sub>2</sub>	0.337	0.0247	13.647	< 0.0001	1.0	0.3496	2.86	0.0354	0.0046	5
HCO <sub>2</sub>	0.367	0.0163	22.456	< 0.0001	1.0	0.2308	4.34	0.0075	0.0026	5
LCO <sub>2</sub> + MCO <sub>2</sub>	0.266	0.0371	7.172	< 0.0001	1.0	0.6092	1.64	0.1266	0.0500	12
LCO <sub>2</sub> + HCO <sub>2</sub>	0.281	0.0403	6.973	< 0.0001	1.0	0.6478	1.54	0.1486	0.0674	12
MCO <sub>2</sub> + HCO <sub>2</sub>	0.352	0.0148	23.813	< 0.0001	1.0	0.2084	4.80	0.0004	0.0090	12
LCO <sub>2</sub> + MCO <sub>2</sub> + HCO <sub>2</sub>	0.300	0.0292	10.280	< 0.0001	1.0	0.4473	2.24	0.0376	0.0806	19

An *F*-statistic was calculated as the (RSS/df) of a separate fit, divided by the (RSS/df) of the difference between the separate and combined fit; this was then compared against an *F*-value from an *F*-distribution table using a .05 alpha level.