

Table S5. Range of parameter values explored in Monte Carlo simulation approach. This parameter range was explored for the model of regulation by parallel activation (model configuration *ii*).

Parameter name	Parameter range	Unit
X_A	0 -10	Unitless
X_{IA}	0 – 1	Unitless
nH	1 – 4	Unitless
K_{50ArC}	0 – 0.1	mmol (L cell water) ⁻¹ s ⁻¹
K_{on}	0 – 1	s ⁻¹
K'_{off}	0 – 1000	s ⁻¹