

Table S2. Established parameter values

Parameter	Range	Units	Justification
V_{RA}	0.0001	$\mu\text{M sec}^{-1}$	
D	18	$\mu\text{m}^2 \text{sec}^{-1}$	(White et al. 2007)
k_p	$[10^{-5}, 10^{-3}]$	sec^{-1}	(White et al. 2007)
β	[0, 10]	None	(White et al. 2007)
f_0	0.4	μM	(White et al. 2007)
λ	0.019		(White et al. 2007)
n	2		(White et al. 2007)
x_f	400 μm		(White et al. 2007)
δ	0.001		(White et al. 2007)
γ	$3.3 * [10^{-4}, 10^{-1}]$		Unknown. A large range is used