

Parameter	μ^* (3 s.f.)	Proportionality
$k_{f,14}$	7.45×10^{-2}	(+)
$k_{f,4}$	4.13×10^{-2}	(-)
L_s	4.11×10^{-2}	(-)
$k_{f,5}$	3.62×10^{-2}	(+)
G_d	3.11×10^{-2}	(-)
$K_{d,2}$	2.66×10^{-2}	(+)
$k_{f,12}$	9.28×10^{-3}	(-)
$k_{f,6}$	6.80×10^{-3}	(+)
R	5.10×10^{-3}	(+)
$k_{f,10}$	5.07×10^{-3}	(+)
$k_{f,8}$	4.89×10^{-3}	(+)
$k_{f,9}$	4.44×10^{-3}	(-)
$k_{r,8}$	4.44×10^{-3}	(-)
R_{pc}	3.39×10^{-3}	(+)
P	3.10×10^{-3}	(-)
Ca	2.81×10^{-3}	(-)
$K_{d,11}$	2.62×10^{-3}	(+)
$k_{f,11}$	2.47×10^{-3}	(-)
$k_{f,13}$	2.35×10^{-3}	(+)
P_c	2.35×10^{-3}	(-)
R_g	1.85×10^{-3}	(+)
$k_{f,7}$	1.33×10^{-3}	(-)
$k_{r,10}$	1.20×10^{-3}	(-)

Table S5: Model sensitivity analysis results: Tau-to-Tail Ratio The full list of significant parameters is given. Parameters are ranked by μ^* . Additionally, a column depicting whether the parameter is proportional (+) or inversely proportional (-) to the objective function is supplied. The measure of proportionality is taken from the sign of μ , hence reveals the effect of the parameter on the objective function direction on average across all tests.