

Parameter	Competition Default Value	Mutualism Default Value	Description
$\alpha_{E,S}$	1	1	Mutualistic coefficient, benefit of prey species $S$ to prey species $E$
$\beta_{E,S}$	1	0	Competition coefficient, effect of prey species $S$ on prey species $E$
$\alpha_{S,E}$	1	1	Mutualistic coefficient, benefit of prey species $E$ to prey species $S$
$\beta_{S,E}$	1	0	Competition coefficient, effect of prey species $E$ on prey species $S$
$\mu_E$	0.5	0.5	Maximum intrinsic growth rate of prey species $E$
$\mu_S$	0.5	0.5	Maximum intrinsic growth rate of prey species $S$
$\gamma_{E,G}$	20	20	Burst size of generalist phage on prey species $E$
$\gamma_{E,P}$	20	20	Burst size of specialist phage on prey species $E$
$\gamma_{S,P}$	20	20	Burst size of specialist phage on prey species $S$
$\varsigma_{E,G}$	0.001	0.001	Attachment rate of generalist phage on prey species $E$
$\varsigma_{E,P}$	0.001	0.001	Attachment rate of specialist phage on prey species $E$
$\varsigma_{S,P}$	0.001	0.001	Attachment rate of specialist phage on prey species $S$
$\delta_E$	0.03	0.03	Intrinsic death rate of prey species $E$
$\delta_S$	0.03	0.03	Intrinsic death rate of prey species $S$
$\delta_G$	0.03	0.03	Intrinsic death rate of generalist phage

$\delta_p$	0.03	0.03	Intrinsic death rate of specialist phage
$\kappa_E$	0	1	Half-saturation constant of species $E$
$\kappa_S$	0	1	Half-saturation constant of species $S$
$R$	2	1	System carrying capacity