Supplementary Material

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Name	Description		
p	proliferation rate of tissue cells		
d_C	death rate of tissue cells		
$\Delta_{ m MIE}$	mesenchymal immune evasion		
$\Delta_{ m MGA}$	mesenchymal growth arrest		
Δ_A	mutant cells decreased apoptosis		
$\Delta_{ m IE}$	mutant cells increased immune evasion		
Δ_P	mutant cells increased proliferation		
K_0	EC50 term for negative feedback of tissue cells on own proliferation		
K_1	EC50 term for probability of NK cell finding mutant cell		
K_2	EC50 term for Treg inhibition of cytotoxic functions		
K_3	EC50 term for how much TGF- β each cell has		
$E_{ m NK}$	rate of NKs clearing mutants		
$E_{\rm CTL}$	rate of CTLs clearing mutants		
$\sigma_{ m NK}$	NK source rate		
$\sigma_{ m CTL}$	CTL source rate per cleared mutant cell		
$\sigma_{ m Treg}$	Treg source rate per cleared mutant cell		
$k_{\rm EMT}$	EMT/MET rate		
σ	standard deviation of noise in TGF- β each cell receives		
$ au_{ m max}$	max amount of TGF- β any cell can receive		
$ au_{ ext{MUT}}$	rate of TGF- β production by mutant cells		
$ au_{\mathrm{Treg}}$	rate of TGF- β production by Treg		

Name	Description	INFL Low Value	INFL High Value
p	proliferation rate of tissue cells	0.28	
d_C	death rate of tissue cells	0.14	
$\Delta_{ ext{MIE}}$	MIE	0.6	
$\Delta_{ m MGA}$	MGA	0.2	
Δ_A	mutant cells decreased apoptosis	0.3	
$\Delta_{ m IE}$	mutant cells increased immune evasion	0.48	
Δ_P	mutant cells increased proliferation	0.36	
K_0	EC50 term for negative feedback of tissue cells on own proliferation	80	
K_1	EC50 term for probability of NK cell finding mutant cell	8	
K_2	EC50 term for Treg inhibition of cytotoxic functions	5	0.025
K_3	EC50 term for how much TGF- β each cell has	200	
$E_{ m NK}$	rate of NKs clearing mutants	10	30
$E_{\rm CTL}$	rate of CTLs clearing mutants	200	600
$\sigma_{ m NK}$	NK source rate	1.3	
$\sigma_{ m CTL}$	CTL source rate per cleared mutant cell	100	
$\sigma_{ m Treg}$	Treg source rate per cleared mutant cell	200	
$k_{\rm EMT}$	EMT/MET rate	0.01	
σ	standard deviation of noise in TGF- β each cell receives	6	
$ au_{ m max}$	max amount of TGF- β any cell can receive	500	
$ au_{ ext{MUT}}$	rate of TGF- β production by mutant cells	0.05	
$ au_{ ext{Treg}}$	rate of TGF- β production by Treg	0.5	
	RP Cancer Line	0.5	
	INFL High Duration	30	
	INFL Low Duration	30	
	Mes Threshold	0.7	
	maximum initial mutation damage after warmup	0.01	
	increase in probability to mutate for non-mutating proliferating cells	0.0001	