

S3 Table. **Simulation parameter values used for results in S9 Fig and Fig 6**

	c_b^i	$\beta_{c,b}$	$\beta_{c,ac}$	X_{f1}	$c_{ac,pk}$	γ_c	γ_{c,pd_b}	$\gamma_{c,pd2}$	X_{f2}	k_{gj}	$k_{gj,gjf}$
Fig./ Mod.											
S9A/M	0 (R)	0.3788	0.0095	0.5000	0	0.0017	0	—	—	0.0104	0.2083
	1 (E)										
S9B/M	0 (R)	0.3788	0.0095	0.5000	0	0.0017	8.3333	—	—	0.0104	0.2083
	1 (E)						$\times 10^{-4}$			$\times .2$	$\times .2$
S9C/M	0 (R)	0.3788	0.0095	0.5000	0	0.0017	8.3333	—	—	0.0104	0.2083
	1 (E)						$\times 10^{-4}$			$\times .25$	$\times .25$
S9D/M	0 (R)	0.3788	0.0095	0.5000	0	0.0017	8.3333	—	—	0.0104	0.2083
	1 (E)						$\times 10^{-4}$			$\times .25$	$\times .25$
6C/M	0 (R)	0.3788	0.0095	0.5000	0 or 1	0.0017	8.3333	—	—	0.0104	0.2083
	1 (E)						$\times 10^{-4}$				
	X_{f3}	$k_{pk,c}$	X_{f5}	n_{f5}	γ_{pk}	$\gamma_{pk,pd}$	X_{f4}	$k_{pd,pk}$	γ_{pd}	k_e	γ_e
Fig./ Mod.											
S9A/M	1	4.5753×10^{-8}	1000	4	0.0125	—	—	—	—	0.0292	0.0042
S9B/M	1	4.5753×10^{-8}	1000	4	0.0125	—	—	—	—	0.0292	0.0042
S9C/M	1	4.5753×10^{-8}	1000	4	0.0125	—	—	—	—	0.0292	0.0042
S9D/M	1	4.5753×10^{-8}	1000	4	0.0125	—	—	—	—	0.0292	0.0042
6C/M	1	4.5753×10^{-8}	1000	4	0.0125	—	—	—	—	0.0292	0.0042
	$\gamma_{e,c}$	X_{f6}	γ_{ek}	$k_{ek,e}$	$\beta_{gj,pk}$	X_{f7}	N	τ_{gj}	γ_{gj}		
Fig./ Mod.											
S9A/M	0.0167	100	0.0167	2.0833×10^{-4}	0.0208	10	4	15	0.0521		
S9B/M	0.0167	100	0.0167	2.0833×10^{-4}	0.0208	10	4	15	0.0521		
S9C/M	0.0167	100	0.0167	2.0833×10^{-4}	0.0208	10	4	1*, 15*	0.0521		
S9D/M	0.0167	100	0.0167	2.0833×10^{-4}	0.0208	10	4	1	0.0521		
6C/M	0.0167	100	0.0167	2.0833×10^{-4}	0.0208	10	4	1*, 15*	0.0521		

M corresponds to the Minimal model.

For S9C Fig and Fig 6C, the 1*, 15* under τ_{gj} refers to the case of the mixture of fast (1 minute delay) and slow (15 minute delay) gap junction populations whose modeling results are presented in S9C Fig and Fig 6C (case 2).