

S2 Table: Constant parameter values used in model simulations.

Parameters	Values
$[\text{Ca}^{2+}]_i$	150 nM
E_{KATP}	- 21 mV
E_{CaL}	51mV
E_{CaT}	51mV
E_{K}	- 75 mV
E_{h}	- 40 mV
ATP_h	0.006 mM
ATP_i	0.1 mM
$\overline{g_{\text{CaL}}}$	0.0006 S/cm ²
$\overline{g_{\text{CaT}}}$	0.0003 S/cm ²
$\overline{g_{\text{KCNQ}}}$	0.0001 S/cm ²
$\overline{g_{\text{Kv1}}}$	0.0008 S/cm ²
$\overline{g_{\text{BK}}}$	0.00015 S/cm ²
$\overline{g_{\text{IK}}}$	0.0001 S/cm ²
$\overline{g_{\text{SK}}}$	0.0001 S/cm ²
$\overline{g_{\text{h}}}$	0.0002 S/cm ²
$\overline{g_{\text{KATP}}}$	0.0004 S/cm ²
d	0.41 μm
τ_r	1800 ms