

Table S5. Polymorphic model elements of the action potential model. A list of action potential model elements and parameters used to manifest genetic variation. Parameter names from Table B1 in the original publication ([24]), names used in the CellML file which is available as supplementary material (filename “LNCS model.zip”) at doi:10.3389/fphys.2011.00106_ and baseline values with units.

Model element	Parameters	Name in CellML file	Standard values
SERCA	$K_{m,up}$ affinity to intracellular Ca^{2+}	Km_up	0.412 μM
L-type Ca^{2+} channel	P_{CaL} permeability of the channel	P_CaL	2.5 ms^{-1}
Calsequestrin (CSQN)	K_m^{CSQN} CSQN affinity to Ca^{2+}	Km_CSQN	630 μM
Na^+ channel	G_{Na} maximum conductance	g_Na	16 $\text{mS}/\mu\text{F}$
Ultrarapidly activating delayed rectifier K^+ channel	G_{kur} : maximum conductance	g_Kur	0.25 $\text{mS}/\mu\text{F}$
Rapidly recovering transient outward K^+ channel	$G_{kto,f}$: maximum conductance	g_Kto_f	0.535 $\text{mS}/\mu\text{F}$
Time-dependent K^+ channel	maximal conductance	g_K1	0.35 $\text{mS}/\mu\text{F}$
Sodium calcium exchanger	$K_{m,Nai}$ affinity of the to intracellular Na^+	K_mNai	12 mM