
Summary of 'simple_hh'

1 Assignments

$$\begin{aligned}
 \alpha_{ca,m} = & \frac{ID:56626512/296,US:13(M/M:-975.193055584/4880.9)}{ID:56626128/287,US:13(M/M:3037.5/5062.5)} \left(\frac{ID:58549520/284,US:12(M/M:3037.5/5062.5)}{\langle 4.05 \text{ ms}^{-1} \rangle} + \frac{ID:56631120/286,U}{ID:58551504/285,US:0(M/M:0.0/0.0)} + \langle 0.0 \text{ (10}^6 \text{) m}^{-2} \cdot \text{kg}^{-1} \cdot \text{s}^2 \cdot \text{A}^1 \rangle \right) \\
 & \frac{ID:58551184/288,US:0(M/M:0.75/1.25)}{1.0} + \frac{ID:56626320/295,US:13(M/M:-1225.38881281/6133.1)}{ID:56626448/294,US:13(M/M:-)} \left(\frac{ID:61251728/292,US}{ID:56626256/290,US:-2(M/M:-0.15532/0.08468)} \right. \\
 & \left. \frac{ID:58550928/289,US:-6(M/M:-0.01915/-0.01149)}{\langle -15.32 \text{ mV} \rangle} + \frac{ID:58571280/15,U}{ID:58571280/15,U} \right) \\
 \alpha_{kf,n} = & \frac{ID:56612688/397,US:12(M/M:-444.093262908/2133.5)}{ID:56612304/388,US:14(M/M:-4264.0/11720.0)} \left(\frac{ID:58535056/385,US:13(M/M:3795.0/6325.0)}{\langle 5.06 \text{ ms}^{-1} \rangle} + \frac{ID:55762256/387,US:}{ID:58535824/386,US:17(M/M:49950.0/8325.0)} + \langle 0.0666 \text{ (10}^6 \text{) m}^{-2} \cdot \text{kg}^{-1} \cdot \text{s}^2 \cdot \text{A}^1 \rangle \right) \\
 & \frac{ID:58535632/389,US:3(M/M:3.84/6.4)}{5.12} + \frac{ID:56612496/396,US:8(M/M:-20.9822210039/136.798)}{ID:56612624/395,US:8(M/M:-2)} \left(\frac{ID:61252112/393,US:3}{ID:56612432/391,US:-2(M/M:-0.158396/0.081604)} \right. \\
 & \left. \frac{ID:58536208/390,US:-5(M/M:-0.022995/-0.013797)}{\langle -18.396 \text{ mV} \rangle} + \frac{ID:58571280/15,U}{ID:58571280/15,U} \right) \\
 & \frac{ID:56613968/451,US:9(M/M:-52.1377129557/259)}{ID:56611728/442,US:11(M/M:-686.0/128)} \left(\frac{ID:61221456/441,U}{ID:58529168/439,US:9(M/M:346.5/577.5)} + \frac{ID:58531408/440,US:14(M/M:6150.0/102)}{\langle 0.462 \text{ ms}^{-1} \rangle} + \langle 0.0082 \text{ (10}^6 \text{) m}^{-2} \cdot \text{kg}^{-1} \cdot \text{s}^2 \cdot \text{A} \rangle_3 \right)
 \end{aligned}$$

2 State Variable Evolution

$$\frac{d}{dt} \underbrace{ID:58571280/15, US:-2(M/M:-0.14/0.1)}_V = \underbrace{ID:55744656/562, US:15(M/M:-9256.73405573/17599.264149)}_{ID:61249104/561, US:37(M/M:75000000000.0/1.25e+11)} \cdot \underbrace{ID:55745744/559, US:0(M/M:0.75/1.25)}_{1.0} \cdot \underbrace{ID:61248912/560, US:37(M/M:75000000000.0/1.25e+11)}_{\langle 0.1 \text{ (10}^{12} \text{) m}^2 \cdot \text{kg}^1 \cdot \text{s}^{-4} \cdot \text{A}^{-2} \rangle} \cdot itot$$

$$\frac{d}{dt} \underbrace{ID:58571856/301, US:1(M/M:-0.3375/1.6275)}_{ca_m} = \frac{\underbrace{ID:58554384/305, US:14(M/M:-14035.0609634/7539.81910583)}_{ID:58552656/303, US:1(M/M:-1.87700348677/1.58563410404)} \left(\underbrace{ID:58571856/301, US:1(M/M:-0.3375/1.6275)}_{ca_m} - \underbrace{ca_m}_{ca_m} \right)}{\tau_{ca,m}}$$

$$\frac{d}{dt} \underbrace{ID:58570896/206, US:1(M/M:-0.3375/1.6275)}_{kf_n} = \frac{\underbrace{ID:58537040/429, US:13(M/M:-6867.97240928/3439.28041458)}_{ID:58539280/428, US:1(M/M:-1.87711616861/1.56064035482)} \left(\underbrace{ID:58570896/206, US:1(M/M:-0.3375/1.6275)}_{kf_n} - \underbrace{kf_n}_{kf_n} \right)}{\tau_{kf,n}}$$

$$\frac{d}{dt} \underbrace{ID:58570512/140, US:1(M/M:-0.3375/1.6275)}_{ks_n} = \frac{\underbrace{ID:58532688/455, US:9(M/M:-157.937622678/283.013784863)}_{ID:58532368/454, US:1(M/M:-1.87911912204/1.56958306685)} \left(\underbrace{ID:58570512/140, US:1(M/M:-0.3375/1.6275)}_{ks_n} - \underbrace{ks_n}_{ks_n} \right)}{\tau_{ks,n}}$$

$$\frac{d}{dt} \underbrace{ID:58571088/492, US:1(M/M:-0.3375/1.6275)}_{na_h} = \frac{\underbrace{ID:58549008/494, US:13(M/M:-6812.17192804/2379.89685579)}_{ID:58548880/493, US:1(M/M:-1.87690994664/1.587184469)} \left(\underbrace{ID:58571088/492, US:1(M/M:-0.3375/1.6275)}_{na_h} - \underbrace{na_h}_{na_h} \right)}{\tau_{na,h}}$$

$$\frac{d}{dt} \underbrace{ID:58570704/465, US:1(M/M:-0.3375/1.6275)}_{na_m} = \frac{\underbrace{ID:58544912/468, US:14(M/M:-8377.94262919/12088.638837)}_{ID:58544720/467, US:1(M/M:-1.87649884661/1.586869518)} \left(\underbrace{ID:58570704/465, US:1(M/M:-0.3375/1.6275)}_{na_m} - \underbrace{na_m}_{na_m} \right)}{\tau_{na,m}}$$

