

gr = grnt if the particle has a Ocharge of (6) decrease.

Jary (1-N)-BNN (7) if the membrane is defolarized Bn decrease.

Joseph Joseph (time!) in resting state - Ne to inside of outside timention less

To inside of M/1

Therease.

Increase.

Increase.

Increase.

In resting state - Ne to membrane is defolarized Bn decrease.

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In resting state - Ne to membrane is defolarized Bn decrease.

Therease of the membrane is defolarized Bn decrease.

In resting state - Ne to membrane is defolarized Bn decrease. Solution for (7): $N = N\omega - (N\omega - No) exp(-\frac{t}{Tn})$ using: $N\omega = \frac{\alpha_n}{\alpha_{n+\beta_n}}$ $T_{n-\frac{1}{\alpha_{n+\beta_n}}}$ (8) (9)

(10)

$$\frac{g_{k}}{(g_{k\infty})^{2}} = \frac{(g_{k\infty})^{2}}{(g_{k\infty})^{2}} = \frac{(g_{k\infty})^{2}}{(g_{k\infty})^{2}} = \frac{1}{(\pi_{k})^{2}} = \frac{1}{(\pi_{k})^{$$

Sodium conductance

$$\frac{1}{\sqrt{t}} \cdot 9h (1-h) - \beta_h h (16)$$

$$m \cdot m \cdot \omega - (m \cdot \omega - m_0) \cdot \exp(-\frac{t}{\tau_m}) \qquad (17) \begin{cases} m \cdot \omega \cdot \frac{\alpha_m}{\alpha_{m+1} \beta_m} \\ \tau_m \cdot \frac{d_m}{\alpha_{m+1} \beta_m} \end{cases}$$

$$h \cdot h \cdot \omega - (h \cdot \omega - h_0) \cdot \exp(-\frac{t}{\tau_n}) \qquad (18) \begin{cases} h \cdot \omega \cdot \frac{\alpha_m}{\alpha_{m+1} \beta_m} \\ \tau_m \cdot \frac{d_m}{\alpha_{m+1} \beta_m} \end{cases}$$

$$\frac{1}{\alpha_{m+1} \beta_m}$$

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in resting Na Conductance is very small. So we reglect mo if the defolarization is greater them Too me and reglect how if UX-30me.

$$\frac{\partial \mathcal{G}_{Na'} \mathcal{G}_{Na} \left[1 - \exp\left(-\frac{t}{\tau_m}\right)\right]^3 \exp\left(-\frac{t}{\tau_m}\right)}{\partial m \cdot \frac{\partial \mathcal{G}_{Na'} \mathcal{G}_{Na''} \mathcal{G}_{Na''}$$

$$\beta_{m} = 4 \exp\left(\frac{Q}{18}\right)$$
 (21)

$$m_{\infty}, \frac{\alpha_{m}}{\alpha_{m+\beta_{m}}}$$
(22)
$$\alpha_{h=0/0} = \alpha_{p} \left(\frac{Q}{20}\right)$$
(23)
$$\beta_{h} = \frac{1}{\exp(\frac{Q}{10})} + 1$$

$$\exp(\frac{Q}{10}) + 1$$

$$24)$$

$$\alpha_{h+\beta_{h}}$$
(25)

Furnious Q I =
$$C_{M} \int_{t}^{t} + \overline{g}_{K} h^{4} (\vartheta - \vartheta_{K}) + \overline{g}_{M} h^{2} (\vartheta - \vartheta_{M}) + \overline{g}_{L} (\vartheta - \vartheta_{M})$$