


$$\tau_m \frac{dV_i}{dt} = V_{rest} - V_i + R_m I_{syn}$$
$$I_{syn} = \frac{1}{R_m} \sum_j w_{ji} Y_{ji} (V_{rev} - V_i)$$

Membrane
leak time


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Membrane
resistance

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Membrane
resistance

Reversal
potential

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Coupling strength
i to j

Membrane
leak time

Membrane
resistance

Reversal
potential

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Coupling strength
i to j

Active Trans-
mitters