Figure S3: Variation of Fig. 3 from computer simulation 1 with results from a simulation where the weight-dependent version of STDP proposed in [23] was used. This STDP rule is defined by the following equations: 

\[ \Delta w_+ = \lambda w_0 e^{-|\Delta t|/\tau_+} \] 

and 

\[ \Delta w_- = \lambda \alpha w e^{-|\Delta t|/\tau_-} \].

We used the parameters proposed in [23], i.e. \( \mu = 0.4 \), \( \alpha = 0.11 \), \( \tau_+ = \tau_- = 20\text{ ms} \), \( \lambda = 0.1 \) and \( w_0 = 272.6 \text{ pS} \). The \( w_0 \) parameter was calculated according to the formula: 

\[ w_0 = \frac{1}{2} w_{\text{max}} \alpha^{\frac{1}{\tau}} \]

where \( w_{\text{max}} \) is the maximum synaptic weight of the synapse. The amplitude parameters \( A^+_r, A^-_r \) for the reward kernel were set to \( A^+_r = 1.104 \) and \( A^-_r = 0.221 \). All other parameter values were the same as in computer simulation 1.