After 1 learning step

After 10 learning steps

Index of target

D_min

After 10 learning steps

After 1 learning step

Index of target

D_min
Supporting Figure Legends

Figure S: Change in the minimum distance between the activity and the target. Change in the minimum distance between the output activity and the target during the learning process are plotted. The minimum distance $D_{\min}$ at $\tau^{BS} = 1$ and $\tau^{BS} = 128$ is plotted in Figs. A and B, respectively. Here, $D_{\min}$ is defined in the same manner as in Figure 9. Red and blue lines represent $D_{\min}$ after one and ten learning steps, respectively. The distance to one (or a few) target(s) is small, while in Figure 9, the distance to almost all the targets is small for $\tau^{BS} = 8$. 