

Fig. 3A-C. Learning window. The change  $\Delta w_{ij}$  of the synaptic efficacy depends on the timing of pre- and postsynaptic spikes. A The standard Hebbian learning. The synapse is increased if the pre- and the postsynaptic neuron fire simultaneously with a temporal resolution  $\Delta t$ . The dashed-dotted line shows an asymmetric learning window useful for sequence learning (Herz et al. 1989; Gerstner and

of Bi and Poo (1998)

biphasic learning windows. *Data points* redrawn after the experiments

van Hemmen 1993). The synapse is strengthened if the presynaptic

spike arrives slightly before the postsynaptic one, and is therefore