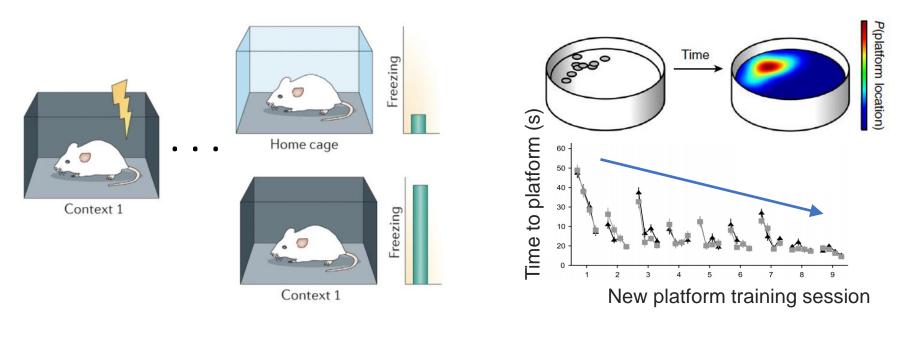
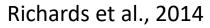
Cumulative learning via the integration of related experiences

Adam M P Miller Frankland Lab, SickKids Hospital Toronto, ON, Canada

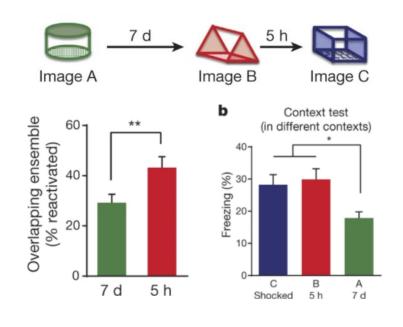
Information can be accumulated over multiple learning experiences



Josselyn, Köhler, & Frankland, 2015



Selectively reactivating HPC ensembles promotes memory integration

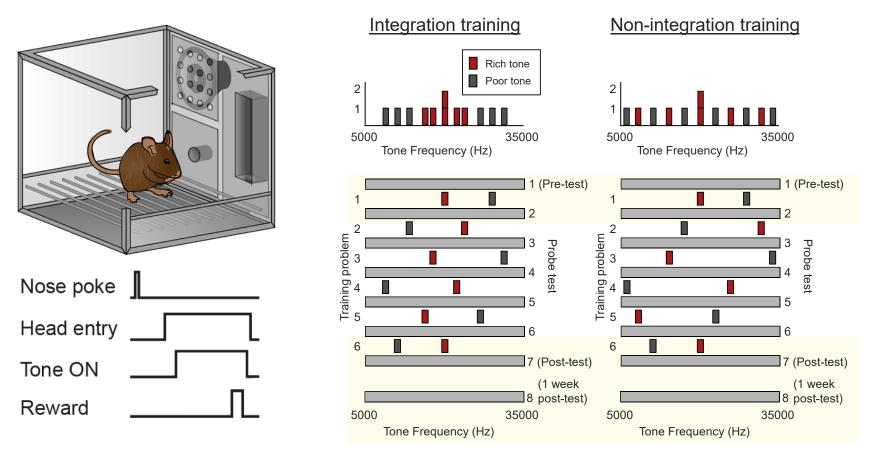


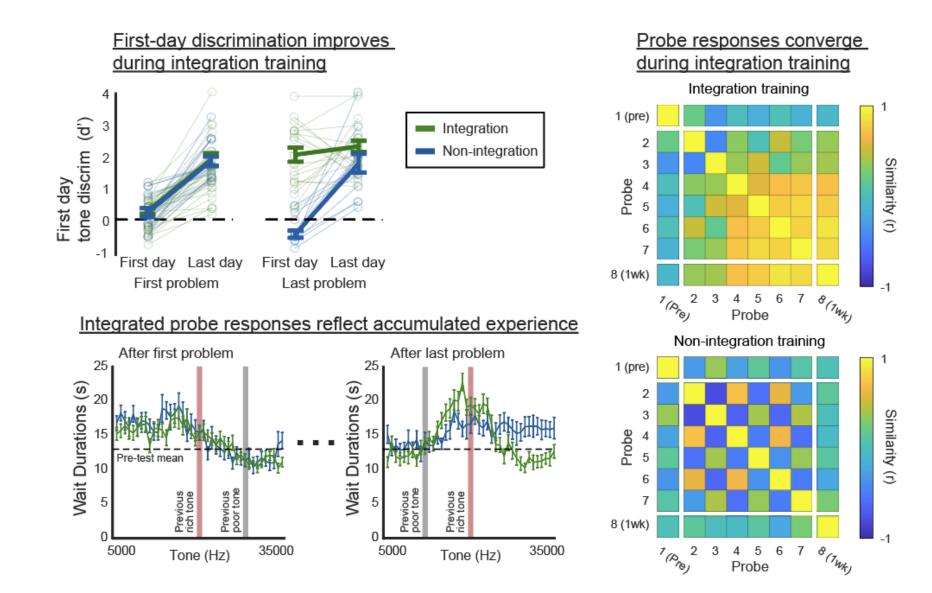
Cai et al., 2016

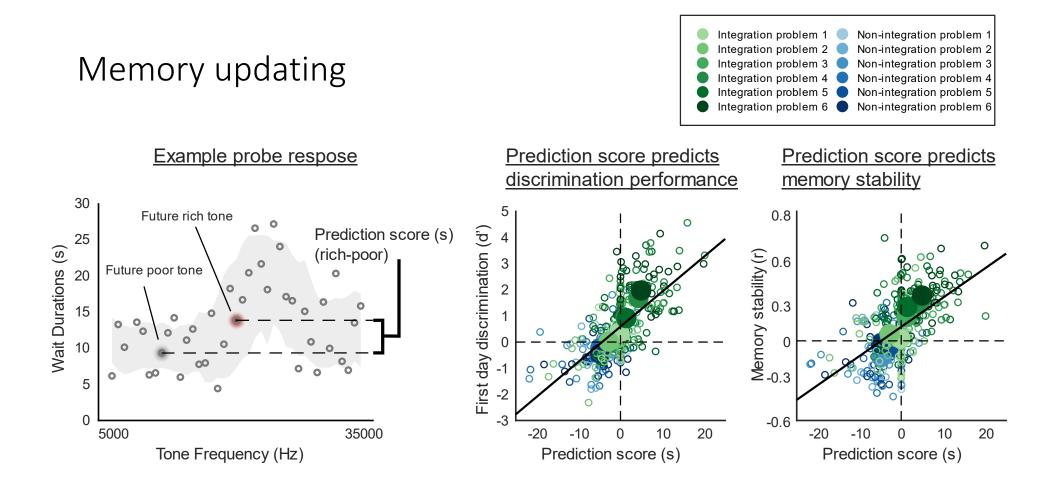


Schlichting & Preston, 2015

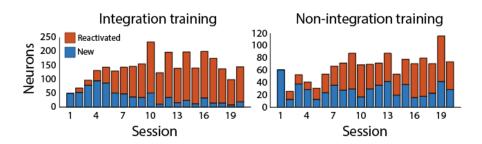
Training procedure

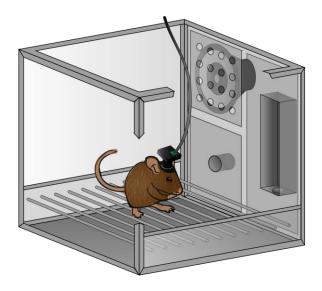


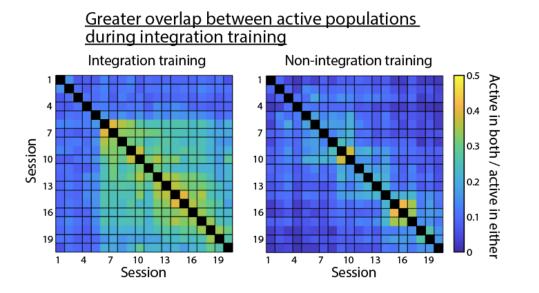




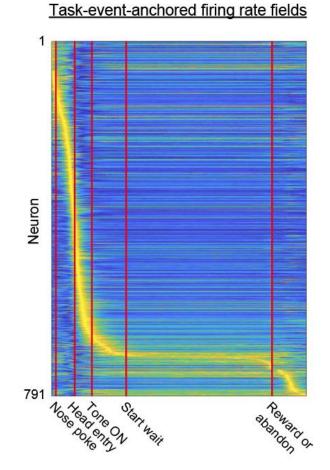
Selective reactivation of CA1 neurons leads to ensemble overlap during integration Proportion of reactivated neurons increases during integration training

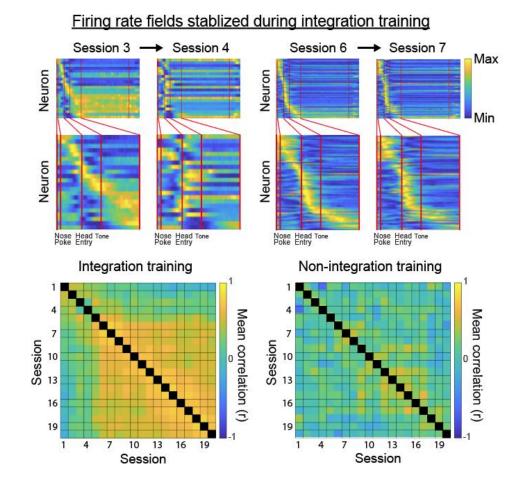




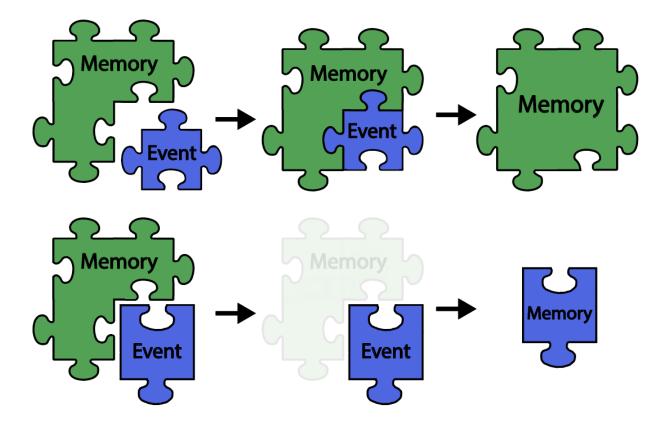


CA1 task responses stabilize during integration training





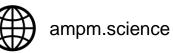
Related experiences are integrated into retrieved memories



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Research Institute Exceptional Trainee Award Fund Bursary to AMPM



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