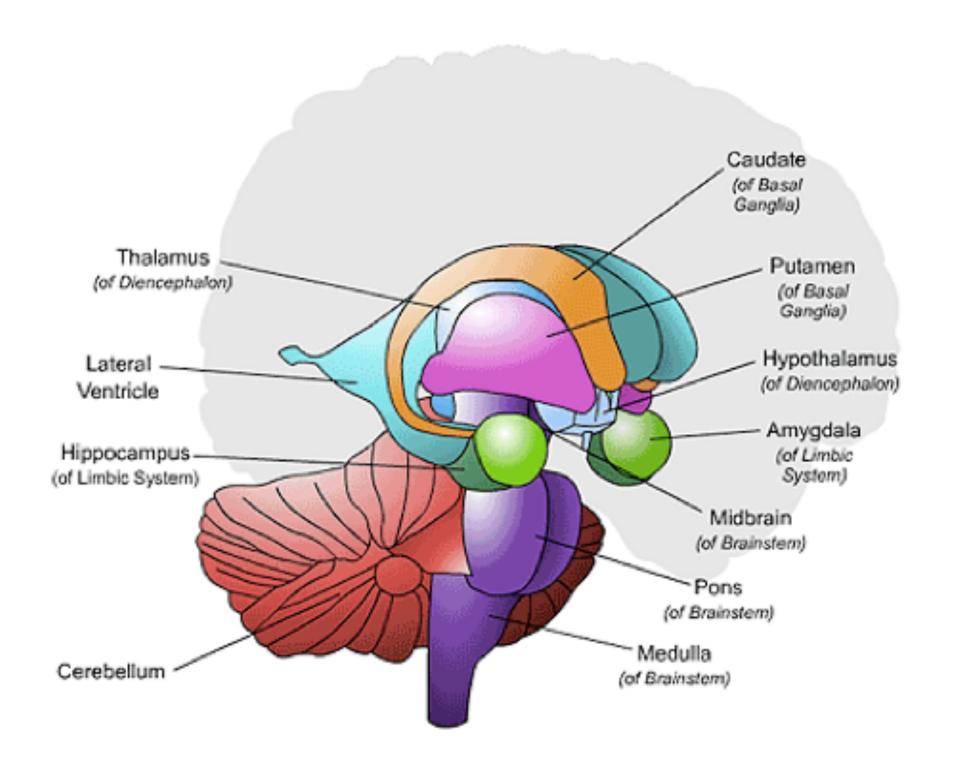
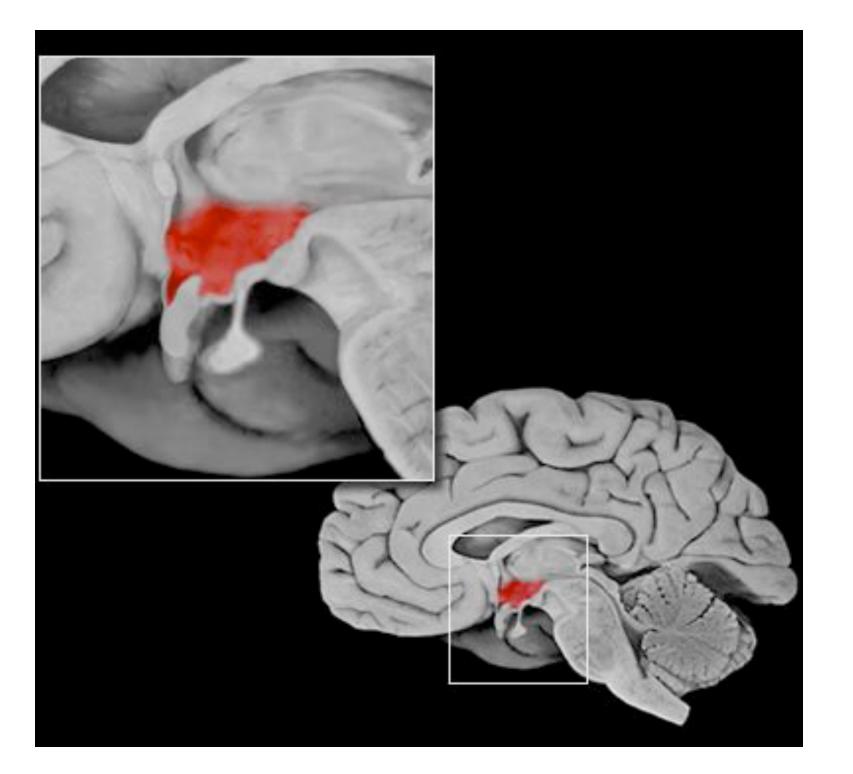
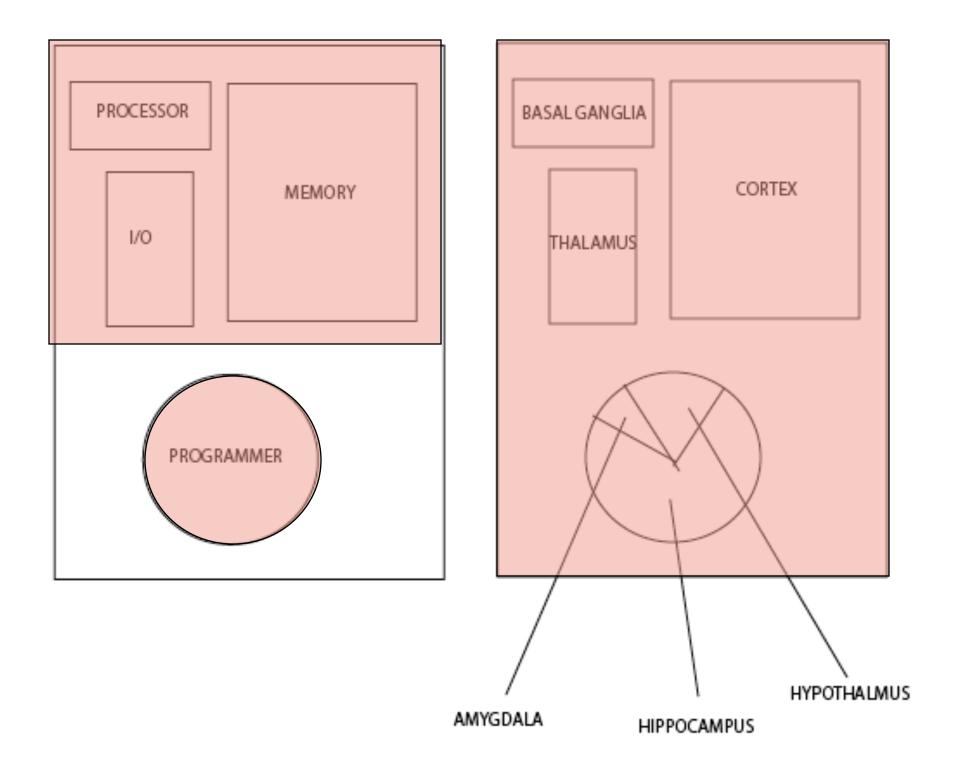
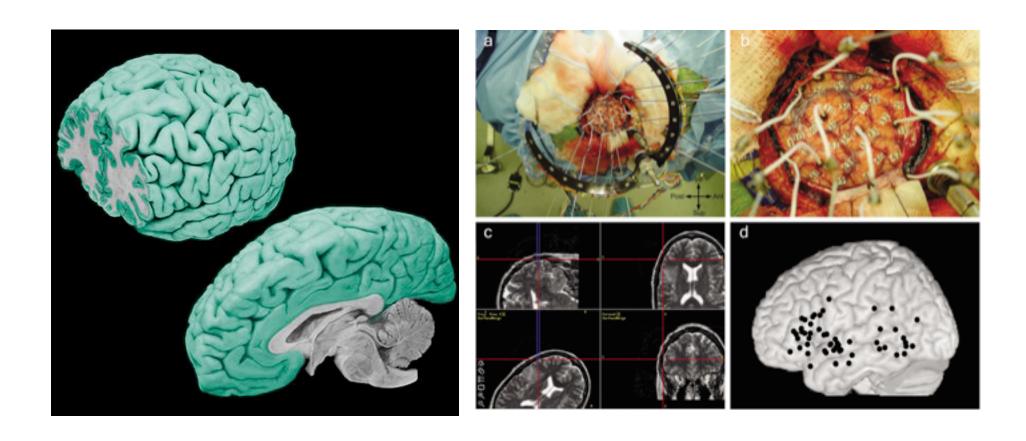


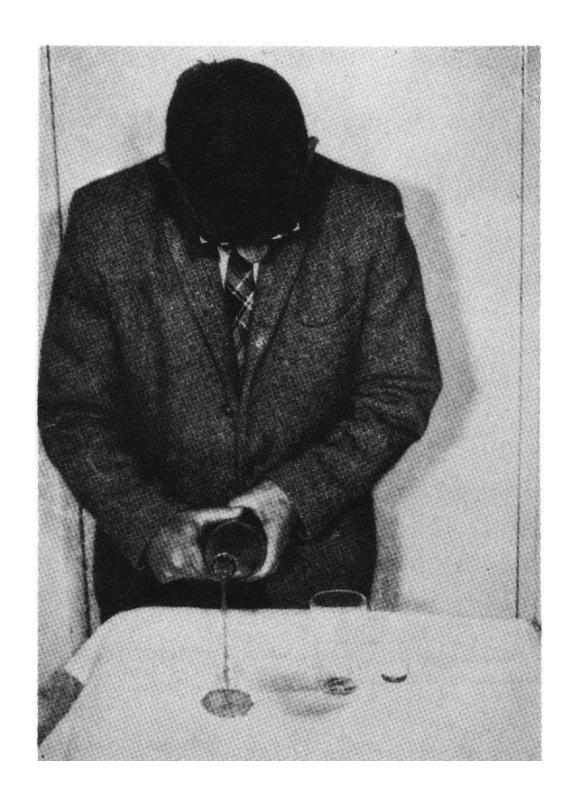
Attention, arousal, circadian rhythms

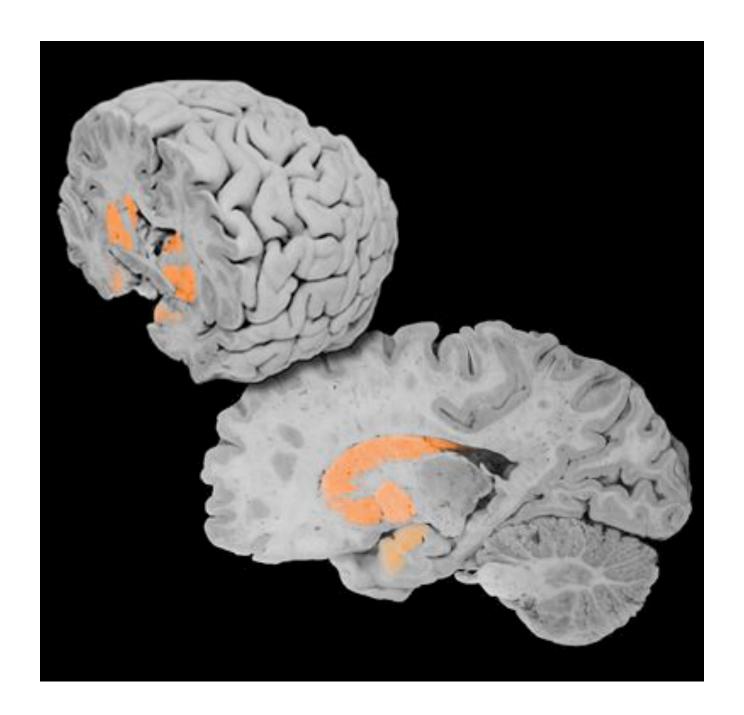


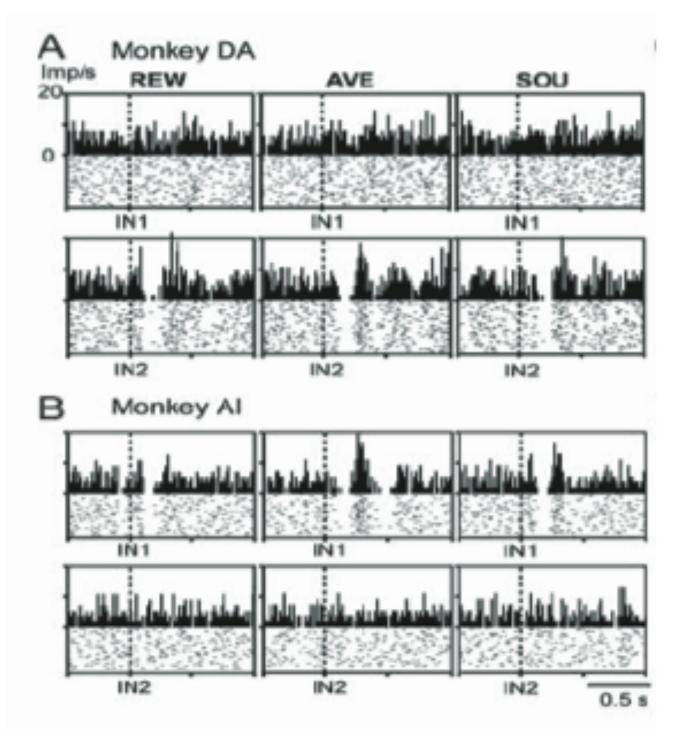


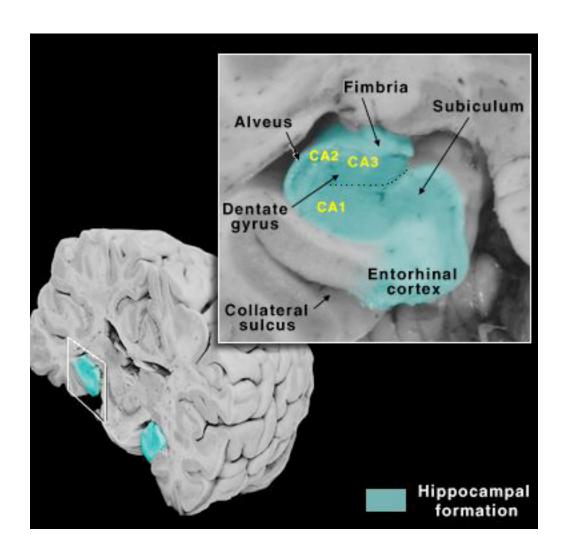


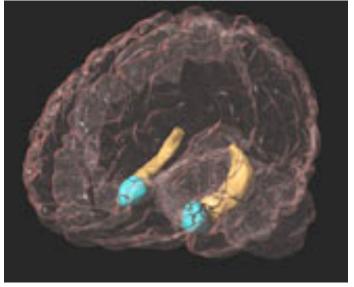


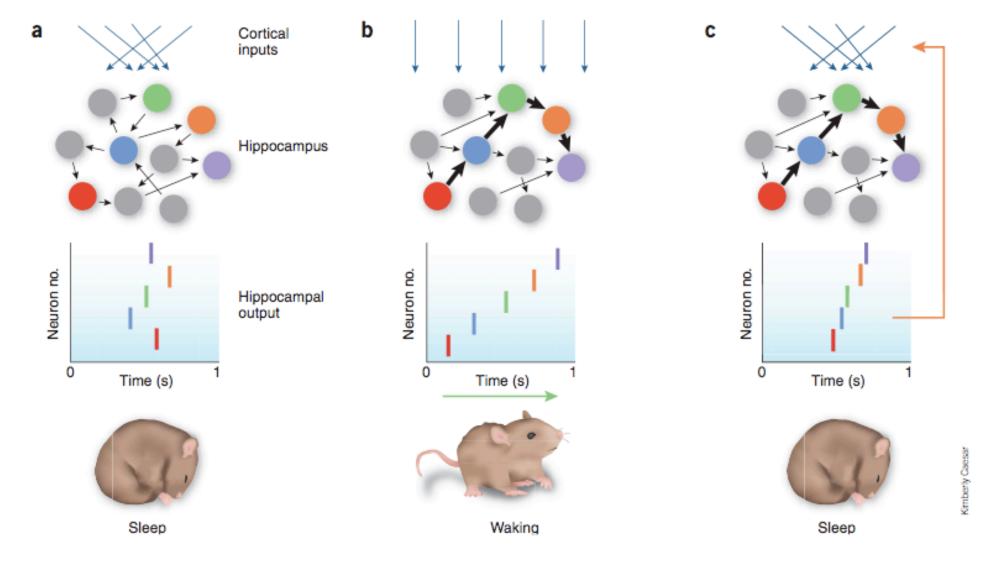


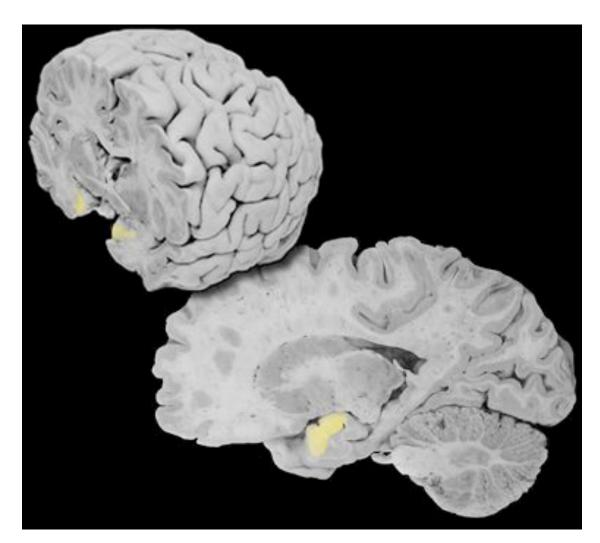


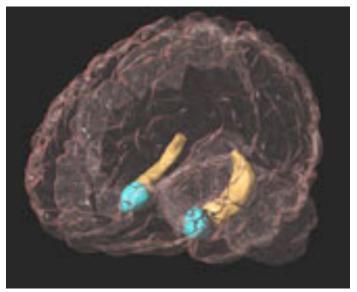


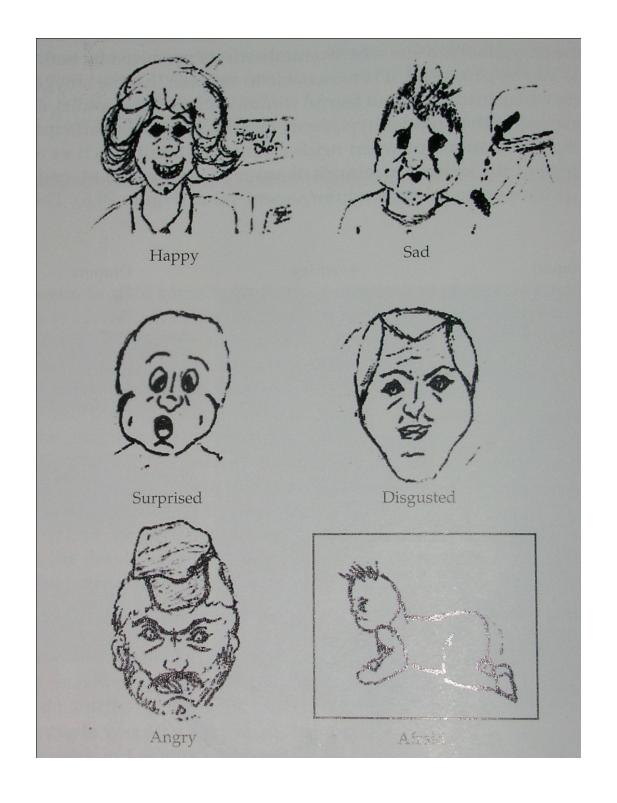


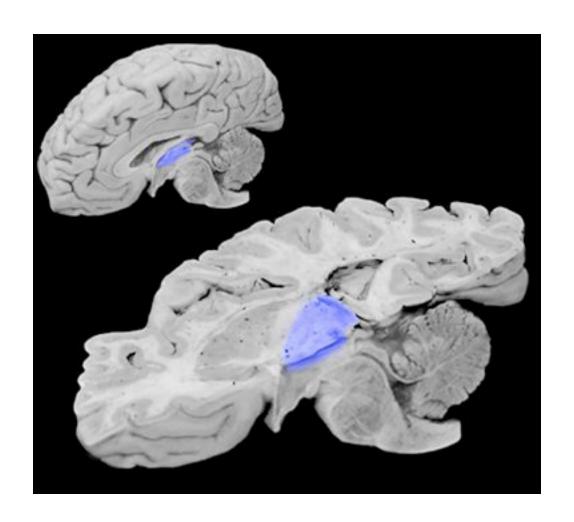






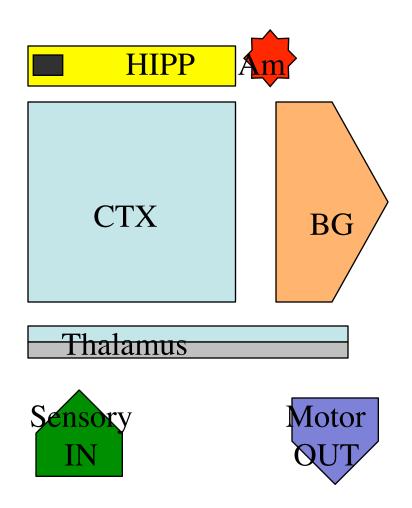






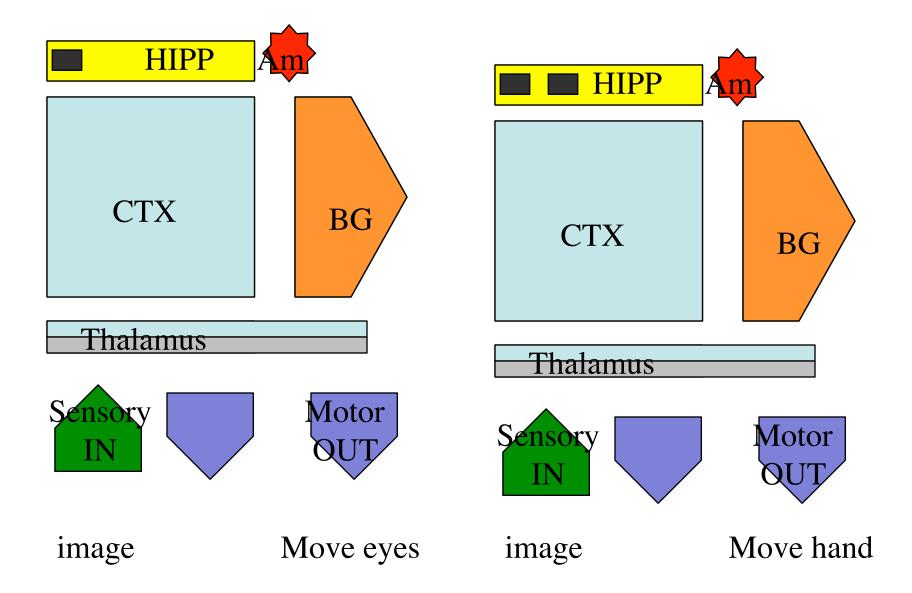


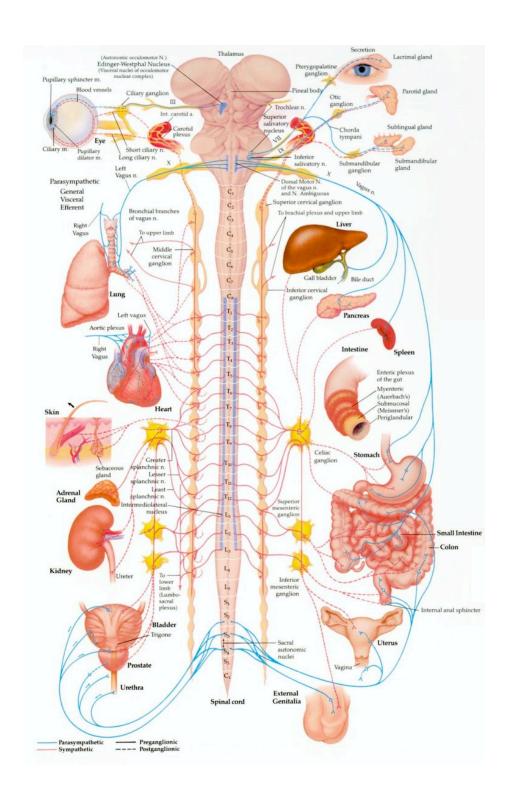


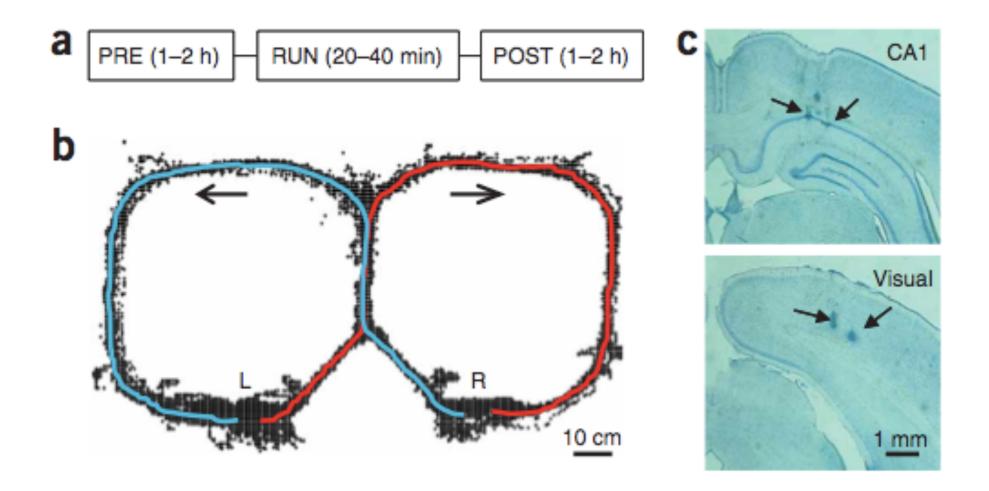


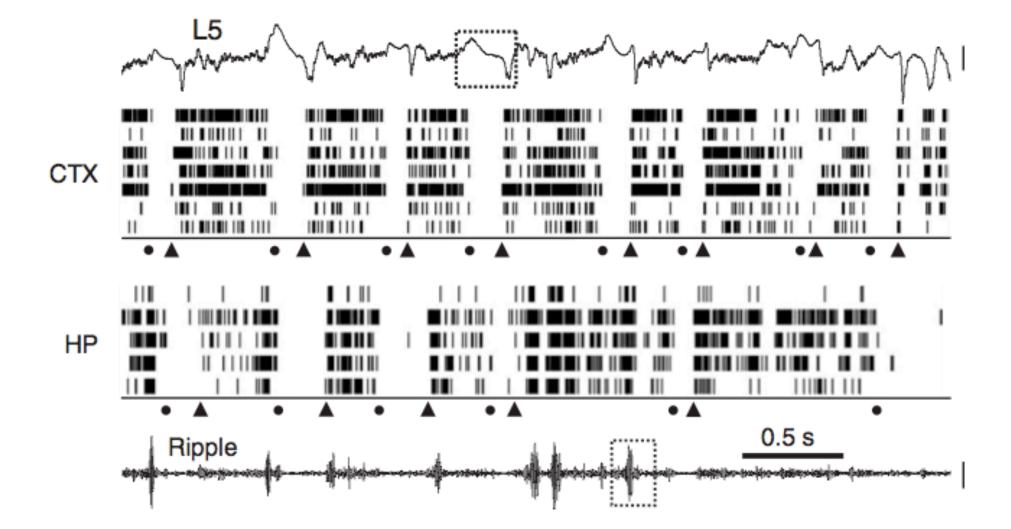
image

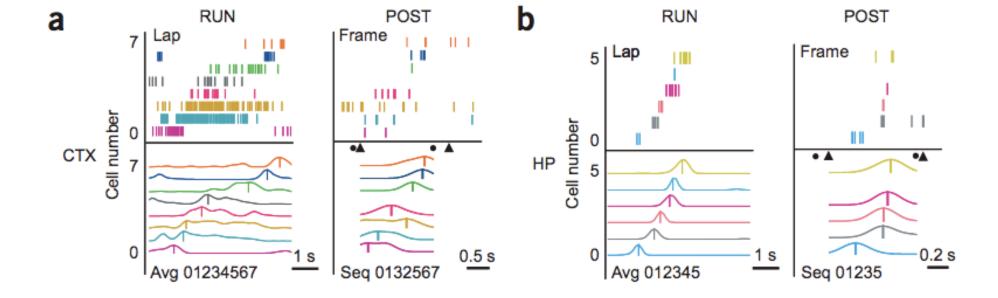
Move eyes

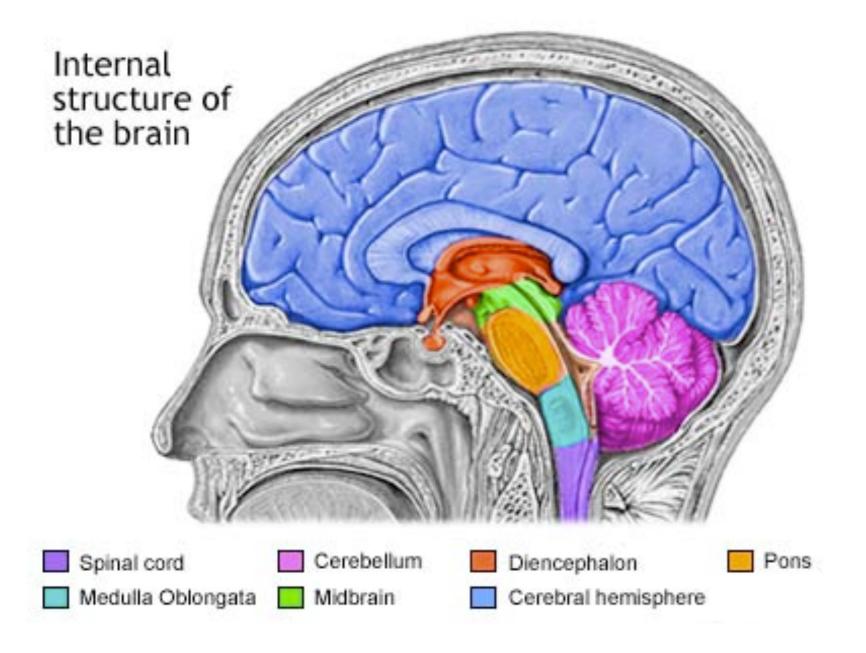




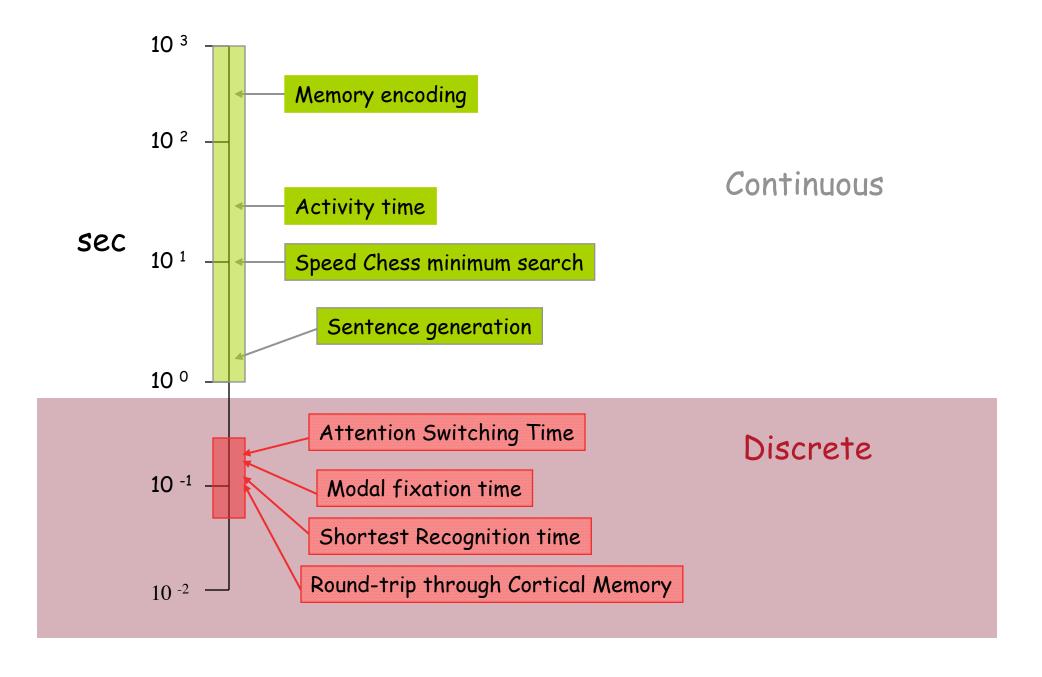




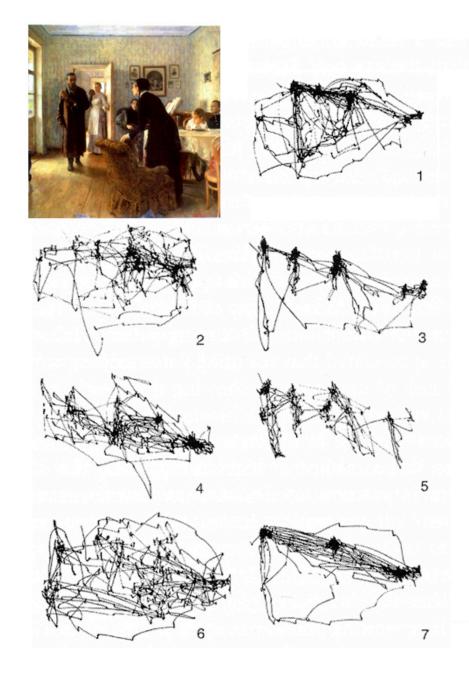




Timescales







Coordinated memory replay in the visual cortex and hippocampus during sleep

Daoyun Ji & Matthew A Wilson

Sleep replay of awake experience in the cortex and hippocampus has been proposed to be involved in memory consolidation. However, whether temporally structured replay occurs in the cortex and whether the replay events in the two areas are related are unknown. Here we studied multicell spiking patterns in both the visual cortex and hippocampus during slow-wave sleep in rats. We found that spiking patterns not only in the cortex but also in the hippocampus were organized into frames, defined as periods of stepwise increase in neuronal population activity. The multicell firing sequences evoked by awake experience were replayed during these frames in both regions. Furthermore, replay events in the sensory cortex and hippocampus were coordinated to reflect the same experience. These results imply simultaneous reactivation of coherent memory traces in the cortex and hippocampus during sleep that may contribute to or reflect the result of the memory consolidation process.

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Date/Time	9 am	10:30 am
Sep 3	Ballard - Intro	Ballard cs
Sep 7	Stone cs	Miikkulainen cs
Sep 14	Ballard cs	Geisler psy
Sep 21	Maddox psy	Markman psy
Sep 28	Kuipers cs	Porter cs
Oct 5	Seidemann neuro	Cormak psy
Oct 12	Schnyer neuro	Ress neuro
Oct 19	Discussion	Love psy
Oct 26	Mooney cs	Gilden psy
Nov 2	Beer psy	Grauman cs
Nov 9	Hayhoe psy	Hayhoe psy
Nov16	Bonevac phil	Echols psy
Nov 30	Kiran psy	Presentations
Dec 7	Presentations	Presentations

LOCATION: SEA Building 3rd Floor Conference 3.250