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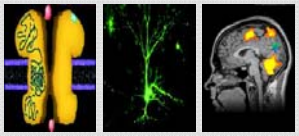

Cortical and subcortical representation of sensory and cognitive memory

April 28 - 29, 2015, Ruhr University Bochum

Tuesday, April 28, morning (9:15 – 12:15)
Session 1: The temporal lobe: locus for sensory and cognitive integration?

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Maintaining a stable sense of direction – insights from single-neuron studies in rodents

One of the important functions of the medial temporal lobe is to take incoming sensory information and assemble it into a coherent representation of space, for use in navigation and also memory.

A critical foundation for the spatial sense is the "sense of direction". This signal is supported by a network of structures that pool information gathered from various sources including landmarks, environment geometry, self-motion cues etc.

We still know little about how this integration occurs but there are reasons to think that part of it happens in the extra-hippocampal cortex.

This talk will review the circuitry and explore ways in which this integration may occur.