

Colloquium

Prof. Björn Rasch

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Tuesday, 15. January 2013, 18:00 hours, GA 04/187

Host: Prof. Oliver T. Wolf
Department of Cognitive Psychology

All interested students, scientists, and scholars are cordially invited to this talk of the IKN colloquium.

Memory reactivation and sleep

According to a widely held concept, the formation of long-term memories relies on a reactivation and redistribution of newly acquired memory representations from temporary storage to neuronal networks supporting long-term storage. This process of system consolidation takes place preferentially during sleep as an "off-line" period during which memories are spontaneously reactivated and redistributed in the absence of interfering external inputs. I will present recent evidence supporting the notion that memories are spontaneously reactivated during sleep and that induced reactivation during sleep by cueing improves memory consolidation during sleep, but not during wakefulness.