INSTITUT PARIS DESCARTES NEUROSCIENCES COGNITION

FÉDÉRATION DE RECHERCHE EN NEUROSCIENCES

Neuroscience Seminar Series

Friday, March 3rd, 2017 at 11:30

Salle des Conférences (R229)

Centre Universitaire des Saints-Pères

45 rue des Saints-Pères, 75006 Paris

Christopher Yeo

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Cerebellum-dependent learning: an examination of memory consolidation processes and roles for the monoamine systems

Simple forms of cerebellum-dependent motor learning, such as eyeblink conditioning (EBC), are good models to investigate how intelligent behaviour emerges from an identified neural network. Studies have shown that normal function within both cerebellar cortex and cerebellar nuclei is essential for the acquisition and expression of EBC learning but reversible inactivations of the cortical and nuclear control regions have revealed that consolidation and storage of this motor memory is essentially cortical.

I will present data showing that the noradrenaline system provides an important consolidation signal for cerebellum-dependent learning in the two hours following training, and that the essential mechanism involves β_1-adrenoceptors on Purkinje cells.

Those interested in meeting with the speaker please contact

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