

LABORATORY OF COMPUTATIONAL NEUROSCIENCE (LCN)

**Thursday, October 8th 24th 2015**

**13h30, Room AAC 008**

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## **Complementary roles of NA and DA neurons to the effort/ reward trade off in monkeys**

Neuromodulatory systems are essential for virtually all cognitive operations, but their specific contribution remains unclear. I will present a set of studies comparing the implication of dopamine and noradrenaline in the effort/reward trade off in monkeys. Altogether, our data indicate that both systems are activated in response to salient stimuli, but the DA system seems specifically implicated in incentive reactions to reward information, whereas the NA system seems more sensitive to potential difficulties and would promote effortful responses. I will discuss the potential impact of these systems on behavior on behavior via an action on their target networks.

Host : Prof. Wulfram Gerstner

**Computational Neuroscience Seminar**