

Peter DAYAN

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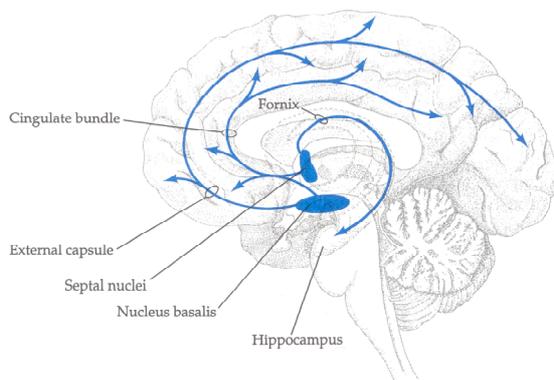
Conférence Générale

16h30 – 17h15

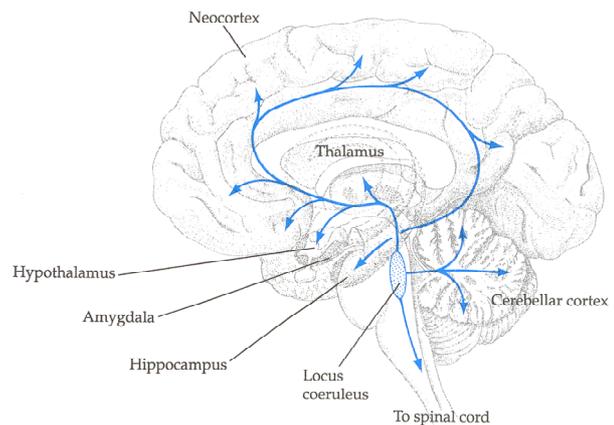
*Neuromodulators and The Neural Representation of Uncertainty*

Neuromodulatory systems such as acetylcholine and norepinephrine have historically been the poor relations of cortical areas and systems in terms of representing and processing important information about the cognitive environment. However, recent experimental and theoretical analyses of these systems suggest that they report somewhat sophisticated statistical quantities, notably different forms of uncertainty about aspects of the environment, and then influence neural processing and plasticity in a computationally rational fashion. I will review the theoretical basis of this claim, together with the experimental data on which it is grounded.

acetylcholine



norepinephrin



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