

Marc Vérin

Université de Rennes1

Emotions, motivation and basal ganglia in human: What can we learn from deep brain stimulation?

Abstract: There is growing evidence of a link between both emotional and motivational impairment and deep brain stimulation (DBS) of the subthalamic nucleus (STN), a treatment that constitutes a therapeutic advance for severely disabled Parkinson's disease (PD) patients. In this context, the STN DBS PD patient model seems to represent a unique opportunity for studying the functional role of the STN in emotional and motivational processing in human. In the present seminar, we will focus first on information relevant to emotional and motivational processing in PD before and after STN DBS. We then discuss the functional roles of the STN in emotional and motivational processing assuming that the STN plays a central role in these human abilities among the basal ganglia circuitry.