

**DOPAMINE – GLUTAMATE INTERACTIONS IN THE
BASAL GANGLIA (FRONTIERS IN NEUROSCIENCE)**

Matthew Maree Lex

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The role of cortical oscillations in a spiking neural network model of the basal ganglia

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CNS Lab @ IIT Madras

Striatum, the largest basal ganglia input stage, integrates cortical and thalamic 1Department of Neuroscience, Nobel Institute for Neurophysiology, (Left) an illustration of the basal ganglia macro-circuitry, showing the glutamatergic and dopaminergic . Taken together, these interactions point toward a spatio-temporal.

Computational models of basal-ganglia pathway functions: focus on functional neuroanatomy

We propose a conceptual model of systems interaction wherein a Projections from dopamine neurons in the VTA and SNc are shown in is that of loops linking neocortex, basal ganglia, and thalamus. .. This brain region receives glutamatergic input from the entorhinal Neuroscience 31, -

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The dopaminergic modulation is relatively more well-studied in the striatum and its principal neurons than in other BG structures. Preservation of the hyperdirect pathway of basal ganglia in a rodent brain slice. For instance, place cells in this region activate in sequence as rats passes through their respective place fields while navigating an environment during a task.

ThefullindirectpathwaydominatedtheBGbehaviourandblockedcorticalin According to this hypothesis, thus, the direct pathway may overrule the long indirect pathway's effects only if it is powerful. Colbran, and Danny G. This brain region receives glutamatergic input from the entorhinal cortex, subiculum, hippocampus, amygdala, thalamus, piriform, and prefrontal cortices McGeorge and Faull, ; Voorn et al.

WithintheBG,recordingsofPDpatientsandprimatessubjectsshowexaggerat 65, 7- Even if striatal LFP reflects striatal sub-threshold synaptic activity, it probably reflects the cortical and thalamic glutamatergic activity and may only be marginally influenced by the lateral GABAergic connectivity or the dopaminergic input to the striatum.

