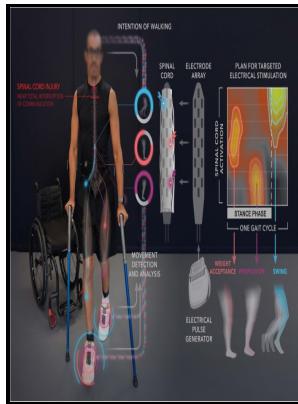


# Dopamine - a multifunctional neuromodulatory role in spinal sympathetic networks

University of Birmingham - Phylogenetic, ontogenetic and adult adaptive plasticity of rhythmic neural networks: a common neuromodulatory mechanism?



Description: -

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## Dopamine

The dopamine system plays a crucial role in several aspects of addiction. A New Descending Dopaminergic Pathway has been Unraveled There was some indication in the literature that in addition to their ascending projections, dopaminergic cells also sent direct descending projections to brainstem locomotor networks.

## Neuromodulation and flexibility in Central Pattern Generator networks

Decrease intracellular levels of by inhibiting.

## Dopamine

If the role of the descending dopaminergic pathway to the MLR is conserved in higher vertebrates, locomotor deficits in PD may result, at least in part, from the loss of excitatory dopaminergic inputs to the MLR.

## Frontiers

The that produce prolactin, in the absence of dopamine, secrete prolactin continuously; dopamine inhibits this secretion. Other drugs that enhance dopamine function, such as and , are also sometimes used to treat Parkinsonism, but in most cases L-DOPA appears to give the best trade-off between positive effects and negative side-effects.

## Intrinsic neuromodulation: altering neuronal circuits from within

A substantial amount of dopamine circulates in the bloodstream, but its functions there are not entirely clear. Increase intracellular levels of by

activating. For example, of dopamine pathways, using electrodes implanted in the brain, is experienced as pleasurable, and many types of animals are willing to work to obtain it.

## Frontiers

The largest component of the basal ganglia is the striatum. In: Herman RM, Grillner S, Stein PSG, Stuart DG eds Neural control of locomotion.

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