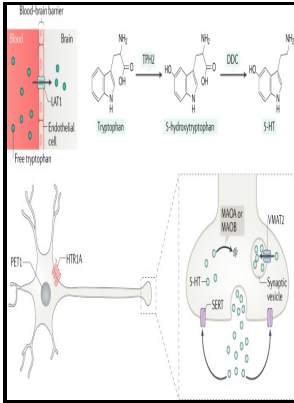# Dopamine - a multifunctional neuromodulatory role in spinal sympathetic networks

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

Description: -
-Dopamine - a multifunctional neuromodulatory role in spinal sympathetic networks
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Neuromodulation

More recent studies, however, have shown that dopamine does play a part in reward learning in fruit flies. Dopamine's function as a neurotransmitter was first recognized in 1958 by and at the Laboratory for Chemical Pharmacology of the National Heart Institute of.

Neuromodulation and flexibility in Central Pattern Generator networks

Both are components of the mid brain.

Frontiers

While some effects result from stimulation of dopamine receptors, the prominent cardiovascular effects result from dopamine acting at , , and. The dopamine in plants is synthesized from the amino acid tyrosine, by biochemical mechanisms similar to those that animals use. Panels A,D,G adapted from D.

Inhibitory and indirect excitatory effects of dopamine on sympathetic preganglionic neurones in the neonatal rat spinal cord in vitro

Central Pattern Generator CPG networks, which organize rhythmic movements, have long served as models for neural network organization. Unilateral lesion of the nigrostriatal pathway induces an increase of neuronal activity of the pedunculopontine nucleus, which is reversed by the lesion of the subthalamic nucleus in the rat.

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