

G-CSC Kolloquium

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Coding novelty - electrical signalling of the dopamine system

Abstract

The dopamine midbrain system is crucial for voluntary movement, reward and motivation and affected in major disorders like Parkinson disease, Schizophrenia and drug abuse. The temporal pattern of action potential firing is critical for dopamine release and synaptic plasticity of striatal target neuron. The talk will discuss the ionic mechanisms of action potential pattern generation and its behavioral consequences.