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Dopamine Signaling Pathway in Health and Disease

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Message from the Guest Editors

Dopamine is a key neurotransmitter modulating multiple and essential physiological functions of the central nervous system, including motor behavior, affective and emotional states, reward and reinforcement behaviors, and other higher cognitive functions. The four major dopaminergic pathways are the nigrostriatal, the mesocortical, the mesolimbic, and the tuberoinfundibular pathway.

Dysfunction in the dopaminergic transmission is recognized as a core alteration in several neurological and psychiatric disorders, including Parkinson's disease, schizophrenia, bipolar disorder, attention deficit hyperactivity disorder (ADHD), and addiction.

This Special Issue on the “Dopamine Signaling Pathway in Health and Disease” will present a selection of original research papers and reviews concerning the cellular and molecular mechanisms underlying dopaminergic neuromodulation under physiological conditions and in preclinical cellular and animal models of dopaminergic neurodegeneration as well as novel potential pharmacological approaches for dopamine-related disorders.



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Special Issue



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Message from the Editor-in-Chief

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