Special Issue

Dopamine Signaling Pathway in Health and Disease

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.

Guest Editors

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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access iournal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to Biomedicines, be it original research, review articles, or developing Special Issues of current key topics.

Editor-in-Chief

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