# **Special Issue**

# The Physiology and Pharmacology of Dopamine Receptors: From Normal Signaling to Pathology

## Message from the Guest Editor

The neurotransmitter dopamine, belonging to catecholamines, is an important molecule that activates two classes of receptors: D1-like and D2-like. These groups also differ in signaling—while D1-like mostly activates adenvivi cyclase. D2-like receptors inhibit this enzyme. Dopamine receptors are expressed in many tissues in the organisms. In the central nervous system, they affect locomotion, they play a role in reward behavior, in neuroendocrine control, and in emotion. However, they also play an important role in the periphery: they have immunomodulatory effects in inflammatory diseases, they affect important functions of the cardio-pulmonary system, as well as renal functions. Pathologies in dopamine receptor, thus, have led to many diseases such as schizophrenia, addiction, Parkinson's disease, genetic hypertension and others. This Special Issue on "The Physiology and Pharmacology of Dopamine Receptors: From Normal Signaling to Pathology" will present a selection of original research papers or reviews that address these topics.

#### **Guest Editor**

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#### Deadline for manuscript submissions

closed (28 October 2022)



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Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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