Special Issue

Advanced Research on Dopaminergic Neurons and Their Role in Depression

Message from the Guest Editor

Major Depressive Disorder (depression) is a multifactorial, biologically and symptomatically heterogeneous condition. One of the longest-standing ideas is the "monoamine hypothesis" stating that one or more dysfunctional monoamine systems are key contributors in the development of this psychiatric disorder. There is growing interest in dopamine's role in clinical depression, especially, in the way it works as a modulator of the brain's reward systems. Furthermore, there is pre-clinical evidence that A10 dopaminergic neurons projecting from the midbrain ventral tegmental area to the nucleus accumbens and dorsolateral prefrontal cortical areas over several routes are associated with motivation, exploration, appetitive learning, reward-driven behaviours. The reward systems might also be implicated in aversive stimuli, a recent notion which needs to be further explored. This Special Issue of Brain Sciences aims to bring together some of the current ideas on the function or dysfunction of dopamine and dopaminergic transmission in depression, by examining the most recent evidence from advanced clinical and experimental research.

Guest Editor

Dr. Màté D. Döbrössy

Laboratory of Stereotaxy and Interventional Neurosciences, Department of Stereotactic and Functional Neurosurgery, University Hospital Freiburg, Freiburg, Germany

Deadline for manuscript submissions

closed (8 June 2022)

Brain Sciences

an Open Access Journal by MDPI

**Impact Factor 2.7
CiteScore 4.8
Indexed in PubMed**

mdpi.com/journal/brainsci

About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

Editor-in-Chief

Prof. Dr. Stephen D. Meriney
Department of Neuroscience, University of Pittsburgh, Pittsburgh, PA 15260, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PSYNDEX, PsycInfo, CAPlus / SciFinder, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.6 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2024).

Recognition of Reviewers:

reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.