

Special Issue

Brain Imaging and Therapy of Addiction

Message from the Guest Editors

Addiction is a brain disease engaging compulsive addicted behaviors including substance use disorder, gambling, Internet gaming disorder, and food addiction. Accumulating evidence from neuroimaging studies suggests that addiction negatively affects brain function and structure, especially within fronto-mesolimbic circuitry involved with reward processing, inhibitory control, and cognition. Various interventions and treatments have been developed to normalize and promote the recovery of these brain abnormalities. However, currently, there are no effective treatments for addiction since its neuromechanisms are not fully understood. Lately, the addictive use of synthetic drugs (i.e., fentanyl, methamphetamine), electronic cigarettes, and digital media devices has become prevalent. This Special Issue aims to update the recent neuroimaging advances in understanding the neuromechanisms of these forms of addiction and their implications for effective interventions. Particularly, advanced imaging technology (e.g., MRS, NODDI), data analysis methods, (e.g., machine learning) and novel therapy (e.g., rTMS, TES, taVNS) are welcomed.

Guest Editors

Prof. Dr. Yi Zhang
Prof. Dr. Kai Yuan
Dr. Yuanqiang Zhu

Deadline for manuscript submissions

closed (15 January 2024)



Brain Sciences

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/152955

Brain Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
brainsci@mdpi.com

[mdpi.com/journal/
brainsci](https://mdpi.com/journal/brainsci)





Brain Sciences

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 6.0
Indexed in PubMed



[mdpi.com/journal/
brainsci](https://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, PSYINDEX, PsycInfo, CAPlus / SciFinder, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.6 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).

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.