



Advanced Functional Connectivity Analysis in Neuropsychiatric Disorders

Guest Editors:

Dr. Zhiyong Zhao

Dr. Weihao Zheng

Dr. Zhe Zhang

Deadline for manuscript
submissions:
closed (15 January 2024)

Message from the Guest Editors

Patients with neuropsychiatric disorders often suffer from functional impairments in cognition, emotion and social behaviors. However, the neuropathology underlying dysfunctions in neuropsychiatric disorders remains unclear.

In the field of fMRI, functional connectivity (FC) has been demonstrated to be an effective and powerful way to study the neuropathology of neuropsychiatric disorders by examining alterations in neural circuitry functions. In recent years, studies have proposed several advanced connectivity methods, such as dynamic FC, effective connectivity, and distance-dependent and edge-based FC, which consider more details (e.g., direction, time, distance and communication between edges) for connectivity analysis and provide richer information than traditional FC in revealing the neuropathology underlying the clinical disorders.

Thus, this Special Issue focuses on the recent developments in the methods and models based on FC, and their applications in neuropsychiatric disorders. We expect that this will be beneficial for clinicians in understanding the nature, origins and neuropathological mechanisms of clinical symptoms in neuropsychiatric disorders.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Stephen D. Meriney

Department of Neuroscience,
University of Pittsburgh,
Pittsburgh, PA 15260, USA

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PSYINDEX, CAPus / 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 2.5 days (median values for papers published in this journal in the second half of 2023).

Contact Us

Brain Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/brainsci
brainsci@mdpi.com
[X@BrainSci_MDPI](https://twitter.com/BrainSci_MDPI)