



The Brain Imaging Replication Crisis

Guest Editor:

Dr. Robert Emmett Kelly

Clinical Psychiatry, Weill Cornell
Medical College, White Plains, NY
10605, USA

Deadline for manuscript
submissions:

closed (30 August 2022)

Message from the Guest Editor

Evidence-based medicine and all scientific advancements depend on the ability to replicate scientific findings. Some irreproducible results are expected in the course of the scientific evaluation supported by statistical testing, for example, with the conventional $\alpha = 0.05$. However, current evidence indicates that actual rates of non-replication across a wide variety of scientific endeavors are much higher than 0.05—a problem known as the replication crisis. Factors that can contribute to this problem include academic and financial incentives; publication practices; limitations in the sensitivity and reliability of scientific tests; “p-hacking” and “HARKing” that inflate effective p-values for experiments; methodological errors. The replication crisis significantly impacts the field of brain imaging, despite of and perhaps because of the methodological complexity involved with this field. The severity of the problem is a subject of much discussion and debate, but the problem remains largely unsolved, with the potential to seriously impede scientific progress.





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, CAPlus / SciFinder, and other databases.

Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 12.9 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the first half of 2024).

Contact Us

Brain Sciences Editorial Office
MDPI, Grosspeteranlage 5
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)