

Special Issue

Neuromodulation for Brain Disorders: Mechanisms, Biomarkers and Precision Interventions

Message from the Guest Editors

Recent advances in neuromodulation technologies have opened new avenues for treating a wide range of brain disorders, from neuropsychiatric conditions to neurodegenerative diseases. Despite their growing clinical potential, key challenges remain in elucidating the mechanisms of action, identifying reliable biomarkers of response, and personalizing therapeutic protocols across modalities. This Special Issue aims to collect cutting-edge research and comprehensive reviews addressing the fundamental principles, translational applications, and clinical outcomes of neuromodulation techniques.

- Identification and validation of neurophysiological, imaging, and molecular biomarkers of neuromodulation efficacy in psychiatric and neurologic diseases;
- Development of adaptive and closed-loop stimulation paradigms in patients;
- Advances in precision and personalized neuromodulation approaches;
- Integration of computational modeling, machine learning, and neuroinformatics for individualized treatment optimization;
- Novel mechanisms and interventional strategies for pharmacological and molecular neuromodulation;
- Ethical, technical, and clinical challenges in translating neuromodulation into routine care.

Guest Editors

Dr. Andreina Giustiniani

IRCCS Centro Neurolesi Bonino Pulejo, Messina, Italy

Dr. Ricardo Rodrigues

CNC—Center for Neuroscience and Cell Biology, University of Coimbra, 3004-504 Coimbra, Portugal

Deadline for manuscript submissions

31 October 2026



NeuroSci

an Open Access Journal
by MDPI

Impact Factor 1.9
Indexed in PubMed



mdpi.com/si/263539

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

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





NeuroSci

an Open Access Journal
by MDPI

Impact Factor 1.9
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

On behalf of the Editorial Office of *NeuroSci*, I am pleased to extend our warm greetings to you all. As we reflect on 2025, we note with satisfaction the continued rise of the journal's impact factor, alongside sustained growth in submissions, publications, and an increasingly international readership. We are grateful to our authors for choosing *NeuroSci* as a venue for their work, to our reviewers for the time and expertise they contribute, and to our Editorial Board Members for their consistent engagement and guidance. In the coming year, the editorial team will continue to strengthen the journal's profile and to support high-quality contributions across the field of neuroscience. We invite you to read recent articles published in *NeuroSci* and consider publishing your next paper with us.

Editor-in-Chief

Dr. François Ichas
Institut des Maladies Neurodégénératives, CNRS et Université de
Bordeaux, UMR 5293, Bordeaux, France

Author Benefits

Open Access:

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

High Visibility:

indexed within ESCI (Web of Science), PMC, PubMed, EBSCO, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 24.1 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2026).