Special Issue

Molecular and Cellular Biology of Brain Tumors and Neuro-Oncology

Message from the Guest Editor

Understanding the cellular and molecular processes underlying the origin and progression of brain tumors, as well as the mechanisms of resistance to treatment and metastasis, is crucial for the development of better diagnostic tools and molecularly targeted innovative therapies. Despite important advances made in brain tumor biology over recent years, prognosis remains dismal, and survivors suffer from long-term sequelae of cytotoxic chemotherapy, radiotherapy, and surgical interventions. In this Special Issue of Brain Sciences, the current state of knowledge on the biological basis of brain tumor types including gliomas, medulloblastoma, and ependymomas will be addressed, and the potential applications of this knowledge for the development of novel diagnostic and therapeutic strategies will be presented.

Guest Editor

Dr. Rafael Roesler

1. Cancer and Neurobiology Laboratory, Experimental Research Center, Clinical Hospital (CPE-HCPA), Federal University of Rio Grande do Sul, Porto Alegre 90035-003, Brazil

2. Department of Pharmacology, Institute for Basic Health Sciences, Federal University of Rio Grande do Sul, Porto Alegre 90035-003, Brazil

Deadline for manuscript submissions

closed (16 May 2025)



Brain Sciences

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.6 Indexed in PubMed



mdpi.com/si/197300

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

mdpi.com/journal/ brainsci





Brain Sciences

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.6 Indexed in PubMed



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 16.2 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first 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.