

## Special Issue

# At the Frontiers of Human Glioblastoma: Challenges in Introducing New Therapeutic Strategies

### Message from the Guest Editors

Adult Glioblastoma is a highly aggressive malignant brain tumor. The standard procedure, which has not been modified in the last two decades, includes surgical resection followed by radiotherapy with concomitant temozolomide chemotherapy. Unfortunately, glioblastoma recurrence is extremely frequent. Problems with the introduction of new therapies, even as adjuvants, include the low penetration of anticancer drugs in the brain due to the blood–brain barrier, the high inter- and intra-tumor heterogeneity of glioblastoma cells, as well as their invasiveness and resistance to therapy. Therefore, new glioblastoma models that will improve our knowledge and allow investigation of new therapeutic strategies under conditions that mimic the situation in patients with high fidelity are demanded. This Special Issue will assemble preclinical and clinical studies of glioblastoma, from pathophysiological mechanisms to new therapeutic strategies. Studies based on new glioblastoma models (including 3D cultures, bioprinting, microfluidic devices, and animal models); clinical investigations; bioinformatics; and mathematical modeling of the patient's response are highly welcome.

---

### Guest Editors

Dr. Milica Pešić

Dr. Pilar Sánchez Gómez

Dr. Lisa Oliver

---

### Deadline for manuscript submissions

closed (15 June 2021)



## Brain Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.6  
Indexed in PubMed



[mdpi.com/si/52820](https://mdpi.com/si/52820)

*Brain Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[brainsci@mdpi.com](mailto: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 5.6  
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 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.