



Advances in Glioblastoma: Bridging Genetics, Epigenetics, Immunology and Pathophysiology to Advanced Therapies

Guest Editors:

Dr. Felix Mircea Brehar

1. Department of Neurosurgery,
Clinical Emergency Hospital
“Bagdasar-Arseni”, 041915
Bucharest, Romania
2. Department of Neurosurgery,
“Carol Davila” University of
Medicine and Pharmacy, 020021
Bucharest, Romania

Prof. Dr. Alexandru Vladimir Ciurea

1. Department of Neurosurgery,
“Carol Davila” University of
Medicine and Pharmacy, 020021
Bucharest, Romania
2. Department of Neurosurgery
and Scientific Director at the
Sanador Clinical Hospital, 70000
Bucharest, Romania
3. Medical Section within the
Romanian Academy, 010071
Bucharest, Romania

Deadline for manuscript
submissions:

20 September 2024



mdpi.com/si/187949

Message from the Guest Editors

Glioblastoma (GBM) stands as one of the most challenging brain tumors, representing a paradigm of complexity both in its nature and therapeutic resistance. Integral to this complexity is the nuanced interplay of immunological responses and a myriad of biomarkers that help to characterize the tumor's distinct attributes. Behind this intricate network lies an array of genetic mutations, epigenetic modifications, unique pathophysiological conditions, and immune responses that not only dictate the tumor's behavior but also influence the surrounding brain environment.

We invite researchers and clinicians to present their original research manuscripts and review articles that present genomic, epigenomic, pathophysiological, immunological, and biomarker-centric data to develop a comprehensive understanding of GBM. We are particularly interested in research that elucidates the role of genetic and epigenetic factors, as well as immunological interactions and biomarkers, in GBM progression, the impact of the GBM microenvironment on therapeutic strategies, and the innovative methodologies employed to piece together this complex puzzle.



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI