



cells



an Open Access Journal by MDPI

Brain Tumors: From Neuropathology to Molecular Biology

Guest Editors:

Prof. Dr. Francesco Maiuri

Department of Neuroscience and Reproductive and Odontostomatological Sciences, University of Naples Federico II, 80131 Naples, Italy

Prof. Dr. Marialaura Del Basso De Caro

Department of Advanced Biomedical Sciences, University of Naples Federico II, 80131 Naples, Italy

Prof. Dr. Lorenzo Chiariotti

Department of Molecular Medicine and Medical Biotechnology, School of Medicine, University of Naples "Federico II", 80131 Naples, Italy

Deadline for manuscript submissions:

20 August 2024

Message from the Guest Editors

The classification of brain tumors has recently undergone several changes, primarily due to the identification of new histologic variants and the adoption of novel technologies. Up to several years ago, diagnosis was primarily performed on the basis of histopathological aspect of tumors and several immunohistochemical studies. In the 2016 WHO classification, and even more in the 2021 classification, thanks to the improved understanding of the genetic basis of tumorigenesis, the 2016 and 2021 WHO classifications were able to incorporate molecular findings into brain tumor diagnosis. The use of integrated phenotypic and genotypic parameters, provided by histology and molecular genetics, has provided greater accuracy to diagnosis, patient management, prognosis and treatment response.

Besides, in patients with similar neuropathological findings, the biomolecular studies have defined subgroups with different biomolecular features and different biological behaviors, response to treatment, recurrence rates and survivals. This Issue aims to discuss the improvements in tumor diagnosis and management enabled by biomolecular studies and neuropathology.



mdpi.com/si/175513

Special Issue



cells



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Alexander E. Kalyuzhny

Neuroscience, UMN Twin Cities,
6-145 Jackson Hall, 321 Church St
SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation
Centre, The University of
Copenhagen, Copenhagen,
Denmark

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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](#), [MEDLINE](#), [PMC](#), [CAPlus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Cell Biology*) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

Contact Us

Cells Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/cells
cells@mdpi.com
[X@Cells_MDPI](#)