Special Issue

Molecular Insights and Therapeutic Advances in Cerebral and Spinal Tumors

Message from the Guest Editor

Cerebral and spinal tumors represent a complex group of central nervous system (CNS) malignancies with highly heterogeneous molecular profiles and clinical behavior. Despite advances in surgical techniques, radiation therapy, and chemotherapy, outcomes for many patients remain suboptimal due to challenges in diagnosis, therapeutic resistance, and tumor recurrence. This Special Issue aims to highlight recent progress in understanding the molecular and cellular mechanisms underlying CNS tumorigenesis, progression, and response to treatment. We invite original research articles and comprehensive reviews focusing on novel biomarkers, cutting-edge diagnostic methods, genetic and epigenetic alterations, immune modulation, and innovative therapeutic strategies, including targeted therapy, nanotechnology-based delivery, and personalized medicine approaches. By bringing together multidisciplinary insights, we aim to foster a deeper understanding that could lead to improved prognostic tools and more effective treatment paradigms for both cerebral and spinal neoplasms.

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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.

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