

## Special Issue

# Neurosurgical Advances in Brain Tumor Surgery

### Message from the Guest Editors

Onco-functional balance is a pivotal concept in modern neurosurgery. Several technological advances are currently available to optimise clinical outcomes in oncological patients. Neurocognitive assessment is carried out with the aim of sparing essential functions, including language, calculation, and visuo-spatial attention, employing neuropsychological tests and targeting specific items. Navigated transcranial magnetic stimulation (nTMS) can be routinely used for pre-operative mapping, during surgery, and for post-operative rehabilitation processes. Intraoperative monitoring represents another advantageous tool in preventing intraoperative damage. Research is currently underway in these innovative approaches, with researchers acquiring data and exploiting confocal microscopy and optical imaging to characterise histological tissue directly in the operative field during surgical excision, using new instruments that are manageable and time-efficient. This Special Issue will discuss recent advances in research and treatment in brain tumours, with the aim of working towards the optimisation of currently available instruments and technologies.

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### Guest Editors

Dr. Camilla Bonaudo

Prof. Dr. Alessandro Della Puppa

Dr. Antonello Grippo

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### Deadline for manuscript submissions

28 November 2025



## Cancers

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## About the Journal

### Message from the Editor-in-Chief

*Cancers* is an international online journal addressing both clinical and basic science issues related to cancer research. The journal is publishing in Open Access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

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### Editor-in-Chief

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