

Special Issue

New Advances in Stereotactic Radiosurgery

Message from the Guest Editor

Stereotactic radiosurgery (SRS) is a non-invasive, high-precision therapy that delivers targeted radiation to lesions while sparing healthy tissue. Recent advances in imaging, radiation delivery systems and treatment planning algorithms have significantly enhanced the efficacy and safety of SRS. These developments have broadened its clinical applications, ranging from the management of brain metastases, arteriovenous malformations, and functional disorders to emerging uses in spinal and extracranial tumors. Recent innovations in SRS include the integration of advanced imaging modalities (e.g., fMRI, PET), for improved target delineation and adaptive radiotherapy systems that account for real-time tumor and organ motion.

Moreover, novel delivery platforms (e.g., Gamma Knife, CyberKnife), have enhanced precision and expanded treatment possibilities. Improved radiobiological understanding has also optimized fractionation and outcomes. This Special Issue aims to highlight cutting-edge advancements in SRS, with a focus on technological breakthroughs, clinical outcomes, and future directions, and offer a comprehensive update on its evolving role in modern medicine.

Guest Editor

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