

Special Issue

Pediatric Surgery in Oncology: Innovations, Challenges, and Future Directions

Message from the Guest Editors

Pediatric surgical oncology is rapidly evolving, driven by technological innovation and the need to balance oncologic control with organ preservation and long-term quality of life. Advances such as intraoperative image guidance, fluorescence-guided surgery, and augmented reality are enhancing surgical precision and safety. Minimally invasive techniques, including laparoscopic and robotic-assisted procedures, are increasingly applied to complex pediatric tumors, reducing morbidity and facilitating recovery. Organ-sparing resections and refined lymphatic mapping are reshaping surgical practice, allowing preservation of function while maintaining oncologic adequacy. Nonetheless, challenges persist, including limited pediatric-specific evidence, variable integration of new technologies across healthcare settings, and the need for long-term outcome validation. This Special Issue aims to highlight innovations, challenges, and future directions in pediatric surgical oncology. We welcome original research and reviews on emerging technologies, multidisciplinary strategies, and pathways toward safer, more effective, and less invasive care for children with cancer.

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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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