Special Issue

Pediatric Cancer Research from Genetics and Morphology to Experimental Therapy

Message from the Guest Editor

Among the pediatric population (ages 0 to 19 years), the most common types of cancer are leukemias, followed by CNS tumors, lymphomas, neuroblastoma, kidney tumors, and malignant bone tumors. The incidence of pediatric tumors varies in different racial and ethnic groups, reflecting a biologic as well as an environmental basis for the ethnic disparity. Malignant tumors have a complex biology that is characterized by rapid proliferation, spectrum of cellular differentiation, and association with developmental genes. The genome is unique with a high prevalence of specific structural variations and predisposing germline variants. This unique genome translates to a unique morphology, microenvironment, and clinical behavior. Traditional and novel therapeutic regimens are burdened by therapy resistance and tumor progression. Genetic and epigenetic tumor sequencing has opened new opportunities for patients to be included in clinical trials. This Special Issue aims to highlight recent advances in pediatric tumor research, including pathology, tumor microenvironment, novel treatment, and cellular and genetic landscapes.

Guest Editor

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Deadline for manuscript submissions

closed (10 December 2024)

Cancers

an Open Access Journal by MDPI

Impact Factor 4.4
CiteScore 8.8
Indexed in PubMed

mdpi.com/si/176088

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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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