

Special Issue

Cell Therapy in Pediatric Hematological Malignancies: Current Opportunities and Challenges

Message from the Guest Editors

Research has been carried out in an attempt to improve treatment success for pediatric patients with hematological malignancies using cell therapies (hematopoietic stem cell transplantation (HSCT), donor lymphocyte infusion (DLI), and, more recently, chimeric antigen receptor (CAR-T cell) therapy). In this Special Issue of *Children*, we welcome original research articles, reviews, mini-review, and case reports focusing on the current role of HSCT in pediatric hematological malignancies. Contributions may include the impact of cytogenetic and molecular alterations on outcomes, the predictive role of minimal residual disease (MRD) detection and interventions, the choice of conditioning regimens, the selection of donors, studies on GvDH, CAR-T cell therapy for pediatric hematological malignancies, CAR-T cell engineering with a discussion of the advantages and disadvantages of different approaches, strategies to improve aspects such as antigen escape, toxicities, CAR-T cell trafficking, and the immunosuppressive microenvironment. We look forward to receiving your contributions.

Guest Editors

Dr. Teresa de Souza Fernandez

Cytogenetic Laboratory, Cell and Gene Therapy Program, Instituto Nacional do Câncer (INCA), Rio de Janeiro, RJ 20230-130, Brazil

Dr. Elaine Sobral Da Costa

Instituto de Puericultura and Pediatria Martagão Gesteira, Universidade Federal do Rio de Janeiro, Av. Bruno Lobo, 50 Cidade Universitária, Rio de Janeiro 21941-909, Brazil

Deadline for manuscript submissions

closed (10 November 2024)



Children

an Open Access Journal
by MDPI

Impact Factor 2.1
CiteScore 3.8
Indexed in PubMed



mdpi.com/si/203842

Children
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
children@mdpi.com

[mdpi.com/journal/
children](https://mdpi.com/journal/children)





Children

an Open Access Journal
by MDPI

Impact Factor 2.1
CiteScore 3.8
Indexed in PubMed



[mdpi.com/journal/
children](https://mdpi.com/journal/children)



About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or comprehensive review for consideration and publication in *Children* (ISSN 2227-9067). *Children* is an open access journal—research articles, reviews, and other content are published online immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. The journal focuses on sharing clinical, epidemiological, and translational science relevant to children's health. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Paul R. Carney
Departments of Child Health and Neurology, University of Missouri, 400
Keene Street, Columbia, MO 65211, USA

Author Benefits

Open Access

— free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, and other databases.

Journal Rank:

JCR - Q2 (Pediatrics) / CiteScore - Q2 (Pediatrics, Perinatology and Child Health)