

Special Issue

Advances of Phenylketonuria in Children

Message from the Guest Editors

From 1934 first detected phenyl pyruvic acid to 1963 a method for measuring phenylalanine from dried blood spots of newborns, it took almost 30 years. However, important drawbacks remain in the management of phenylketonuria (PKU) now. Adherence to dietary therapy, especially after the first decade of life, is often unsatisfactory, with consequences for neurocognitive function. Behavioral and emotional problems are still described in many continuously treated children and adolescents. The neuropathology of PKU remains a major knowledge gap. Sapropterin, an oral form of tetrahydrobiopterin, is an alternative pharmacological treatment for a subset of patients with PKU, mainly those with mild or moderate metabolic phenotypes. It is not known whether pegylated phenylalanine ammonia lyase, which requires daily subcutaneous injections, is safe and effective in children.

Guest Editors

Dr. Eduardo Vieira Neto

Department of Pediatrics, School of Medicine, UPMC Children's Hospital of Pittsburgh, 4401 Penn Ave., Pittsburgh, PA 15224, USA

Prof. Dr. Márcia Gonçalves Ribeiro

Institute of Childcare and Pediatrics Martagão Gesteira/UFRJ, Federal University of Rio de Janeiro, Rio de Janeiro 21941-912, RJ, Brazil

Deadline for manuscript submissions

1 August 2025



Children

an Open Access Journal
by MDPI

Impact Factor 2.1
CiteScore 3.8
Indexed in PubMed



mdpi.com/si/207907

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)