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Neurometabolic Monitoring and Imaging in Pediatric Critical Care

Guest Editor:

Dr. Tiffany S. Ko
Department of Anesthesiology and Critical Care Medicine, Children's Hospital of Philadelphia, Philadelphia, PA 19104, USA

Deadline for manuscript submissions:
closed (1 June 2024)

Message from the Guest Editor

Cerebral metabolic distress is an important primary and secondary disease process that contributes to mortality and adverse neurodevelopmental outcomes in newborns and infants. Children with neurometabolic decompensation may have severe clinical presentations, including headache, irritability, vomiting, lethargy, seizures, loss of consciousness, and death. Early detection and early intervention are invaluable to prevent irreversible neurologic injury and to achieve normal or near normal neurodevelopmental milestones. This issue aims to highlight translational advances in the quantification and imaging of cerebral metabolism and metabolic injury that may be applied in pediatric neurocritical care populations including, but not limited to, traumatic brain injury, hypoxic ischemic encephalopathy, and congenital abnormalities resulting in cardiac and/or respiratory insufficiency. The submission of original preclinical and clinical research manuscripts as well as scoping systematic and meta-analyses review articles are welcome. Please do not hesitate to reach out for further clarification. We look forward to highlighting your work in this Special Issue!

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Editor-in-Chief

Dr. Amedeo Lonardo

1. Formerly Director of the Simple Operating Unit "Metabolic Syndrome", Azienda Ospedaliero-Universitaria, 41126 Modena, Italy
2. Formerly Professor of Internal Medicine, School of Specialization of Allergology and Clinical Immunology, University of Modena and Reggio Emilia, 41121 Modena, Italy

Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

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Contact Us

Metabolites Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/metabolites
metabolites@mdpi.com
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