Special Issue

Nutritional Treatment and Screening for Inherited Metabolic Diseases

Message from the Guest Editors

Inherited metabolic diseases (IMDs), also known as inborn errors of metabolism, are a group of genetic disorders caused by pathogenic variants affecting specific metabolic enzymes or pathways. Although individually rare, they collectively have a significant impact on global morbidity and mortality. IMDs typically result in the accumulation of toxic metabolites or a deficiency of essential biochemical products, disrupting cellular function and energy production. Given the fundamental role of metabolism in all organ systems, these disorders often lead to severe multisystem manifestations if untreated. Advances in newborn screening have improved early diagnosis, enabling timely interventions. Treatment varies depending on the specific metabolic defect and may include dietary modifications, cofactor supplementation, enzyme replacement therapy, or, in severe cases, organ or stem cell transplantation. Emerging research is increasingly focused on gene therapy as a potential curative approach. This Special Issue aims to highlight the latest research in this field, and we welcome original articles, case reports, experimental studies, and reviews.

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Message from the Editorial Board

Nutrients is an on-line open access journal that was first published in 2009. *Nutrients* adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of *Nutrients* has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

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