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Metabolic Pathways of Nutrition Intake in Obese Children

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Deadline for manuscript
submissions:

closed (7 April 2025)

Message from the Guest Editors

Dear Colleagues,

Elucidating the mechanisms of development of childhood obesity at the molecular level may contribute to identifying potential targeted intervention approaches to prevent childhood obesity and clarify the links between obesity and metabolic disease. Many dietary patterns are implicated in the pathway to childhood obesity, nutrient intake in the context of childhood obesity could be impaired due to unhealthy eating patterns, and specific nutrients could be lacking in the diets of overweight or obese children. This could result in nutrient deficiencies that could have a harmful effect on their health.

When nutrients are plentiful, anabolic processes build up stores (glycogen and fats) which can be used catabolically to generate energy when nutrients are scarce. High-energy molecules generated by the oxidation of nutrients (carbohydrates, proteins, and fats) are used as an energy source for processes such as active transport and muscle contraction. The aim of this Special Issue of *Metabolites* is to highlight new insights into the complex role that nutrition plays in the etiology of childhood obesity.

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Guest Editors



mdpi.com/si/193835

Special Issue



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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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