Special Issue

Bioenergetics in Diet and Metabolism: Nutritional Pathways to Health

Message from the Guest Editors

The intersection of bioenergetics and nutrition is crucial for understanding energy metabolism and its health implications. Advances in research methodologies have allowed us to investigate how dietary components influence bioenergetic pathways, shedding light on mechanisms underlying metabolic disorders such as obesity and diabetes. This Special Issue invites contributions that explore the dynamic interactions between diet, energy release, and metabolic health. We seek original research, reviews, and short communications that revolve around topics including the effects of macronutrient composition on energy metabolism, calorimetry techniques for assessing diet-induced thermogenesis, and identification of biomarkers related to bioenergetic efficiency. Additionally, we welcome studies that apply biothermodynamic principles, in order to assess metabolic efficiency and disorders in biological systems. This Special Issue aims to provide valuable insights that can inform nutritional interventions and metabolic health strategies by addressing the complex relationships between nutrition and bioenergetics.

Guest Editors

Dr. Cennet Yıldız
School of Life Science, Technical University of Munich, 85354 Freising, Germany

Dr. Xinhui Wang
School of Medicine, Zhejiang University, Hangzhou 310058, China

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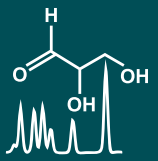
Metabolites
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metabolites@mdpi.com

mdpi.com/journal/metabolites



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About the Journal

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.

Editor-in-Chief

Dr. Amedeo Lonardo
Internal Medicine, Ospedale Civile di Baggiovara, Azienda Ospedaliero-Universitaria, 41126 Modena, Italy

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