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The Interaction between Metabolome and Microbiome in Nutrition

Guest Editor:

Dr. Marie van der Merwe

College of Health Sciences, University of Memphis, Memphis, TN 38152, USA

Deadline for manuscript submissions:

closed (25 April 2024)

Message from the Guest Editor

The human gastrointestinal tract is host to trillions of microbes with a combined genetic potential ten times that of their human host. These gut-resident microbes orchestrate a multitude of activities, resulting in an array of specialized metabolites and bioactive molecules. Diet plays a significant role in shaping this microbial community, while simultaneously serving as a substrate for the generation of microbially produced metabolites. This diet-microbe-metabolite interaction exerts a far-reaching influence on human health and susceptibility to disease. Although the gut microbiome has been implicated in metabolic diseases, defining the specific mechanisms that are altered has proven challenging. Recognizing the pivotal metabolic role played by the gut microbiome in preserving host health or predisposing individuals to disease underscores the need for a deeper understanding of how this complex, dynamic and personalized system interacts with host physiology. This involves an elucidation of dietresponsive microbes, their metabolic outputs, and an understanding of how these bioactive molecules interact with the host's metabolic processes.













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Prof. Dr. Lluis Serra-Majem

1. Centro de Investigación Biomédica en Red Fisiopatología de la Obesidad y la Nutrición (CIBEROBN), Institute of Health Carlos III, 28029 Madrid, Spain 2. Research Institute of Biomedical and Health Sciences (IUIBS), University of Las Palmas de Gran Canaria, 35001 Las Palmas, Spain 3. Preventive Medicine Service, Centro Hospitalario Universitario Insular Materno Infantil (CHUIMI),

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Prof. Dr. Maria Luz Fernandez

Canarian Health Service, 35016

Department of Nutritional Sciences, University of Connecticut, Storrs, CT 06269,

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