

Special Issue

Health Benefit Assessment of Novel Ingredients and Diets

Message from the Guest Editors

This Special Issue, 'Health Benefit Assessment of Novel Ingredients and Diets', aims to cover several key topics related to the impact of innovative food components and dietary patterns on human health. The main topics likely include the following: 1. The characterization of novel bioactive compounds with demonstrated relevance to human health through anti-inflammatory, antioxidant, antidiabetic, neuroprotective, or lipid-lowering mechanisms. 2. The development and application of physiologically relevant in vitro models to assess human digestion, absorption, metabolism, and health effects, such as static (e.g., INFOGEST) and dynamic (e.g., SHIME, TIM-1) in vitro digestion models. 3. Investigations to increase the bioaccessibility and bioavailability of bioactive compounds in humans. 4. The utilization of microfluidic systems, such as lab-on-a-chip platforms to evaluate the nutritional impact of novel diets and ingredients. 5. Applications of advanced in vivo and ex vivo models, to evaluate the physiological effects of novel dietary compounds and their role in human health, particularly concerning gut microbiota, metabolic function, and chronic disease contexts.

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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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